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## Welcome to the New Edition of Our Catalogue

We take immense pride in being guided by our core values of relationships, consistency, long-term vision, integrity, and aggressive growth. In years we have accomplished remarkable milestones, and our devotion to sustainability, innovation, and excellence continues to drive us at the front. In this latest edition, we are delighted to share the achievements and innovations that mark our path to becoming a global leader in the life sciences industry.

Abdos Group is an expanded conglomerate established in 1967, with diverse business divisions covering packaging, FMCG, distribution, contract manufacturing and life sciences. Over the years, we have consorted with leading companies like TATA, Hindustan Unilever, and ELIDA, fostering meaningful relationships built on trust and shared growth. This year, we have marked another major milestone with the installation of our manufacturing facility in Egypt, which is dedicated to FMCG contract manufacturing. This facility has a capacity of over 50,000 tonnes and the ability to produce more than 250+ SKUs across the personal care range. This strategic expansion enables us to serve the markets across North America, Europe, the Middle East, and Africa.

In 2010, the Life Sciences division of Abdos began, with global headquarters located in New Delhi, a manufacturing and distribution facility in Roorkee, India, a sales office in Kolkata, and a logistics subsidiary in Venlo, Netherlands. We ensure seamless service and product supply to customers across more than 90 countries worldwide.

The recent years have been crucial for Abdos Life Sciences as we believe in innovating, expanding, and serving supreme value to our customers. This is our 11th edition of the product catalogue with a diverse range of new products added which are designed to meet diverse laboratory needs, including Western Blot (Compact Blot), contact plates, large-capacity centrifuge tubes, bottle safety carriers, self-manufacturing desiccators, the Ampclear PCR range, compact PAGE mini-moulded vertical electrophoresis, the widest range of deep well plates, and Erlenmeyer flasks. These new advancements show up our commitment to precision, quality and innovation across our portfolio.

Abdos remains dedicated to continuing significant global presence. In 2024, we actively engaged in over 40+ roadshows across India and participated in prestigious events such as the CPHI Conference (New Delhi) and India Lab Expo (Hyderabad). We showcased our innovations at globally recognized trade fairs, including Medica (Dusseldorf), Analytica (Munich and Shanghai) and Arab lab (Dubai). We hosted an exciting channel meet in Vietnam to strengthen the collaboration with partners and distributors to share their insights on recent market trends and explore our latest product innovations. We are available on several social media channels, including LinkedIn, Facebook and website [www.abdoslifesciences.com](http://www.abdoslifesciences.com). All these platforms serve as vital hubs for product knowledge, technical support, and latest updates on industry trends.

Innovation remains to be at the heart of everything we do. Abdos innovative offerings includes Elegant Pipettes, one of the world's lightest pipettes globally, and the Biofill™ Vacuum Filtration System reflect our drive to develop user-friendly and high-performance equipment. In the area of accreditations, we are the first in Asia to set a benchmark for quality by obtaining certifications for IVD, IVDR, UKCA, ISO 14001, and ISO 18385. These certifications are a testament to the high-quality products and plant infrastructure at Abdos life sciences.

At Abdos Life Sciences, our primary focus on sustainability to reduce the plastic waste and minimize the environmental impact by utilizing the advanced recycling methods and innovative technologies. These initiatives align with our vision to foster a brighter and sustainable future for the industry and the world.

In the years to come, our aim continues excellence, innovation and growth. From being a reliable Indian brand to becoming a global player in life sciences. Our journey has been stated by firm dedication, hard work, and the trust of our stakeholders, partners, and consumers. We extend our sincere gratitude to our global family of employees, customers, and partners who encourage us every day to reach new heights. Together, we are forming a world of innovation, sustainability, and collaboration.

Here's to another exciting year of progress and success.

We thank all our stakeholders for their continuous support in driving the growth of Abdos.

Jai Hind!



Shrey Agarwal  
CEO & Member Board of Directors  
Abdos Labtech Pvt Ltd.

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# ABDOS MANUFACTURING PLANT

SPREAD OVER 40,000 SQUARE METERS



Roorkee, India



Facility validated from ISO CLASS 8 & equipped with latest robotics & automation machines



# 430+

PRODUCTS &  
DELIVERING ACROSS

# 90+

COUNTRIES

Venlo, Netherland



Roorkee, India



Robust warehouse  
infrastructure helping  
customers across  
the globe

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## ASSURED QUALITY

Abdos is investing into the future with cutting-edge robotics and automation platforms to provide consistent and high-performance products. We have initiated “manufacturing happiness” at all our production locations and automation continues to be an integral strategy to achieve it.

## QUALITY OBJECTIVE

We are committed to provide the best quality products to our consumers at best possible prices. We will strive to innovate and respond creatively and competitively to changes in external environment and technological advancement. We believe our strength lies in our employees and we are ever so willing to give them training, equipment and tools to empower them to be confident of quality. We conduct periodic reviews to ensure our plant and maintenance systems run effectively and efficiently so that there is no compromise on quality.

## QUALITY MANAGEMENT

Abdos quality standards are certified according to ISO 9001 : 2015 through its state of the art production processes, quality inspections, process parameters, SOP and automations. Since 2015 Abdos has received NS-EN ISO 13485 : 2016 to establish itself as a high quality manufacturer of medical devices. Abdos believes in using the latest technologies with stringent quality control measures and periodic reviews to ensure our plants and warehouses run efficiently and effectively. We believe in the qualification and development of people in our organization and provide them with training, equipment and resources to empower them to be confident of quality.

## MARKING

Products that fall under the scope of European Directive 98/79/EC on In Vitro Diagnostic Device have been specified as CE IVD in the catalogue. This helps us to comply with the general requirements and safety regulations of CE. Find CE IVD logo on the inside pages as shown here.

## MARKING

ABDOS Life Sciences is proud to announce that it has achieved the EU IVDR Certification fulfilling the applicable requirements of the Regulation (EU) 2017/746 for its Product range.

We are among the "first" manufacturers of Life Sciences products to have IVDR certification and are able to anticipate the demands of our customers. Additionally, we are also able to demonstrate our commitment to providing quality of our Products, services, and timely delivery. In spite of our certifications, we will continually review our quality management system and quality policies. Moreover, we will continue to serve each customer to the best of our ability. With IVDR Certification, we intend to provide high-quality and consistent service to our end users. Moreover, we are going to keep investing in technology, development, processes, and product quality.

We, at Abdos, promise to provide complete consumer satisfaction by emphasizing strongly on continual improvement through lean business processes, with the engagement of employees at all levels.

# Quality Control Process

01

## Check Incoming Products

Incoming products like raw materials, packaging materials and consumables are checked for contaminants, strength and aesthetics according to the agreed specifications with the supplier.

02

## On-line Quality Inspection

During the manufacturing process, the product quality is checked in every shift based on Standard Testing Protocols. If any deviations arise, the required improvements are done during manufacturing.

03

## Application Tests in Laboratory

Each product is checked for physical, chemical and biological functions. Our in-house labs perform the necessary application tests as an end-user, to certify the products are fit to be dispatched to customers.

04

## Final Pre-Dispatch Audit

Products are finally tested for proper verification of labels, packaging and documents. Traceability of products is verified at this stage for lot number, expiry date, manufacturing date, etc.

# Quality Certifications

Products from Abdos Life Sciences provide the following certifications and application dependent features.

Scan QR Code for All Certificates



**Central Drugs Standard Control Organization**  
 Directorate General of Health Services  
 Ministry of Health & Family Welfare  
 Government of India



IVDR (EU 2017/746),  
 E.A.R - CERTIFICATE  
 GPSD 2001/95/EC  
 & IVD 98/79/EC



UK RP CERTIFICATE REGULATION 19(3)  
 (C) UK MDR 2002



CE CERTIFICATE  
 (CERTIFICATE OF COMPLIANCE)



GOOD MANUFACTURING PRACTICE, WHO - GMP



UKCA CERTIFIED



MEDICAL DEVICES  
 (Quality Management System)  
 EN ISO 13485



QUALITY MANAGEMENT SYSTEM  
 ISO 9001



ISO 18385 : 2016  
 CERTIFICATE OF COMPLIANCE  
 FORENSIC DNA



ENVIRONMENT MANAGEMENT SYSTEM  
 ISO 14001

# Abdos Knowledge Center

Abdos is more than just products. Our endeavour has always been to provide information on our products and services to optimize the daily work flow. Visit our knowledge center below.



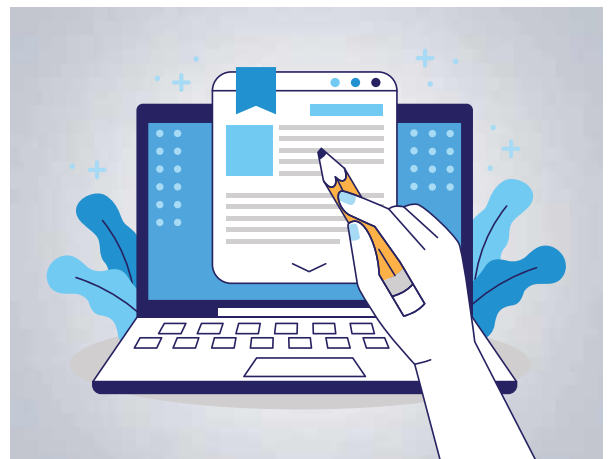
## COA Online

Visit ABDOS website and access all the latest COA files online.



## Website

Everything you need to know about Abdos Life Sciences.



## Connecting with Scientific community through Select Science

ABDOS is advancing knowledge via select Science by connecting with Scientific communities.



## Blog & News

Discover the Latest Industry Advancements with Abdos!

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# Building Long-term Trust

## High Quality Products

Abdos Life Sciences one of Asia's leading laboratory Lifesciences manufacturer offers industry-leading products, through efficient machines, precise moulds, virgin medical grade resins, ISO Class 8 clean room and latest robotics technology. Our products solve customer needs while performing in all aspects of functional, aesthetics, and packaging. Our product specifications are in-line with the expectations of our end-users. Technical Data Sheets and COA's on our website is a testament on our high quality. We follow a strong, robust, and strict quality management system to ensure no compromise in quality is served to the end users. We are well accredited with world class and comprehensive certificates like ISO 9001, ISO 13485, ISO 14001, UKCA, IVD and IVDR.

## Stable & Reliable Service

Stable, reliable, and consistent service is key to our vision and mission statement at Abdos Life Sciences. Even during the Covid pandemic with all the volatility of supply chain we were able to deliver products to our channel partners and end-users within reasonable lead times. Our modern warehouses equipped with latest technology, warehouse management system and SAP ERP made us forecast, manufacture, stock and deliver products in over 75 countries worldwide on-time. We are constantly reviewing our delivery performance and strive to improve them over time.

## Sustainability

Waste be it in any form - plastic, paper, glass, or metal is harmful for the environment. At Abdos Life Sciences we are taking various steps in the direction of sustainability, reduction of industrial waste and harmful pollutants. Use of efficient, optimized machines and moulds, automatic production techniques and use of green logistics channels makes us one of the most sustainable responsible manufacturers in Asia. We take all steps to recycle, reduce and reuse all type of industrial waste at all our factories, warehouses, and offices. Use of digital marketing and electronic communication channels reduces the wastages of paper. At Abdos Life Sciences we aim to reduce our industrial waste by 10% per annum and contribute to a sustainable and brighter future.

## Innovation

Abdos Life Sciences is constantly thriving to offer its end-users innovative products and services. Our constant endeavor is to improve the performance of our products compared to competitors' products being used currently by our end users. We have made notable innovations in products, packaging, services, supply chain, customer engagements and marketing communications. One such example is our patented Generation II Racked Filter Pipette Tips powered by Anti-warpage and Anti-Shrink technology. Life Sciences industry is ever growing and its dynamics requires innovation which is a core value system at Abdos Life Sciences. Our dedicated R&D team is working to introduce new products and improve existing products through efficiency, precision, consistency, sustainability, and innovation.

## Consistency

At Abdos Life Sciences we believe consistency is the most important factor for a great user experience. We have made globally recognized products that are used by end-users in pharmaceutical, academic, diagnostics and research laboratories worldwide. Every product that is manufactured at our plants are consistently tested in our in-house world class testing laboratories before being dispatched to the end-users. Over time and experience we have made the right recipes and processes to offer consistent products to our end users. We do have periodic customer reviews and evaluate on how we could further improve our overall customer offering.



### GREEN LOGISTICS

Goods are transported by rail or sea whenever possible



### PLASTIC OPTIMISATION

Hot runner mould ensures optimal plastic usage



### ENERGY SAVER

Closed water cycle cooling process saves energy



### LESS CARBON FOOTPRINT

The use of robotic & automation reduces human interference

**AS A YOUNG AND CONSCIENTIOUS ORGANIZATION, ABDOS LIFE SCIENCES IS SETTING THE ENVIRONMENTAL STANDARDS FOR OTHERS TO FOLLOW.**

ABDOS works towards creating a brighter, more sustainable future for our planet.

ABDOS is committed to contributing towards the "Go Green Initiative" by making sustainability the core of its business model. The ecological dimensions of operations are focused on Energy Efficiency, Water Efficiency, Waste/pollution management and Biodiversity.

ABDOS is integrating sustainability into business practices through employee engagement, customer stewardship, procurement, supply chain & It's industry bodies.

# CITATION



Royal Society of Chemistry



## Institutes

1. Bhabha Atomic Research Centre, Department of Atomic Energy, Hyderabad.
2. Nuclear Fuel Complex, Department of Atomic Energy, Hyderabad.
3. Analytical Chemistry Division, Bhabha Atomic Research Centre, Department of Atomic Energy, Mumbai.

## Topic

Development of a microwave-assisted digestion method for the rapid determination of chloride and fluoride in nuclear-grade boron carbide powders.

## Product

ABDOS Centrifuge tubes of 15 mL and 50 mL capacity (Product code: P10402 & P10404)



Research Square



## Institutes

Sri Dharmasthala Manjunatheshwara College of Dental Sciences and Hospital, A Constituent Unit of Sri Dharmasthala Manjunatheshwara (SDM) University.

## Topic

Human Salivary Concentrations of Brain Derived Neurotrophic Factor Correlates with Subjective Pain Intensity Associated With Initial Orthodontic Therapy.

## Product

Abdos - Freezing Tubes PP, Sterile



Springer



## Institutes

Manipal Academy of Higher Education & Mayo Clinic, Rochester.

## Topic

Enhanced cell survival in prepubertal testicular tissue cryopreserved with membrane lipids and antioxidants rich cryopreservation medium.

## Product

Abdos Cryovial (P60116)



Bio protocol



## Institutes

Aligarh Muslim University, Aligarh, India.

## Topic

In-house Extraction and Purification of Pfu-Sso7d, a High-processivity DNA Polymerase.

## Product

1. 50 mL tubes (Abdos, catalog number: P10424)
2. 1.5 mL tubes (Abdos, catalog number: P10202)



Science Direct



## Institutes

National Cancer Institute, National Institutes of Health, Frederick, MD 21702, USA.

## Topic

Protocol for cytoskeleton staining of the semi-adherent multiple myeloma cell line RPMI 8226 by immunofluorescence.

## Product

Pasteur pipette, LDPE (P31205)



Elsevier



## Institutes

Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu, Main Campus, Chatha, Jammu (J&K), India.

## Topic

Chitosan augments bioactive properties and drought resilience in drought-induced red kidney beans.

## Product

ABDOS Swirlax-Vortex Shaker (Product code : E11190)



spiedigitalibrary.org



## Institutes

Wojskowa Akademia Techniczna

## Topic

Application of graphene paper laser ablation for separation of cancer cells.

## Product

ABDOS Centrifuge tube (15 ml graduated) (Product code: P10402)



pubmed.ncbi.nlm.nih.gov



## Institutes

College of Veterinary Medicine, University of Qadisiyah



































## Topic

mRNA expression of the severe acute respiratory syndrome-coronavirus 2 angiotensin-converting enzyme 2 receptor in the lung tissue of Wistar rats according to age

## Product

ABDOS Micro Centrifuge tube

# NOMENCLATURE

-  CE certified
-  Quality management system
-  Quality management system - Medical Devices
-  Environment Management System
-  Petridish Standard
-  Gamma sterilization (Sterile R)
-  Forensic DNA Grade
-      Accuracy Standards
-   IVD CERTIFIED IVD 98/79/EC | IVDR CERTIFIED Regulation EU 2017/746
-  DNase RNase Free
-  Endotoxin Free
-  Human DNA free
-  ATP & Pyrogen free
-  PCR Inhibitor Free
-  Heavy Metal Free
-  Leak-proof Tested 635 mm/Hg
-    Sterile (Gamma Irridiation / Ethylene oxide/ E Beam)
-  SAL 10<sup>-6</sup> - Sterility Assurance Level
-  GC/MS (Gas chromatography & Mass Spectrophotometry Test)
-  95 kPa pressure Test
-  Autoclave / Non Autoclave
-  New Product
-  Alphanumeric Identification
-  Product Suitable for food use
-  Product Suitable for Real-time PCR
-  Do not expose to flame
-  Recyclable

The technical data (dimensions, capacities, resistances & icons) specified in this catalogue are approximated and for representation purposes only. The resistances (to chemical products, temperature, centrifugation) may suffer variations depending on external conditions. We recommend to test the product under the forecasted conditions of use. Please do not hesitate to ask for samples if necessary.

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HTP HORIZONTAL ELECTROPHORESIS SYSTEM  
COMPACTPAGE MINI VERTICAL ELECTROPHORESIS SYSTEM  
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Quality is the result of  
a thought out effort



# 01

## Centrifuge Techniques

Micro Centrifuge Tubes

Screw Cap Tubes with EPDM O-RING

Centrifuge Tubes

Racks for Micro Centrifuge Tubes

Racks for Centrifuge Tubes

Equipments & More

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## 01 MICRO CENTRIFUGE TUBES, PP

- Abdos Micro Centrifuge tubes are manufactured using high purity virgin USP Class VI Medical grade polypropylene (PP) conforming to US FDA 21 CFR, free from natural rubber & heavy metal.
- These tubes can be used between -80°C to 121°C & with various organic solvents.
- These tubes are boil proof.
- These tubes come with integral snap cap.
- Frosting on the surface of the tubes makes writing easier.
- Large moulded-in graduations make identification easy.
- Can withstand up to 20000 xg RCF\*.
- Amber coloured micro centrifuge tubes are suitable for light-sensitive samples. Do not allow any light to pass through the tubes.



P10201

P10202



P10203

P10201A

### Micro Centrifuges Tube, PP

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)	Price/144 case (₹)
P10201	0.5 ml	10 mm	31.5 mm	1000	759	102738
P10202	1.5 ml	13 mm	41 mm	500	543	73500
P10202KT	1.5 ml	13 mm	41 mm	500	550	74448
P10203	2.0 ml	13 mm	41 mm	500	605	81892

### Micro Centrifuges Tube, PP (Individually Wrapped, Sterile)

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P10201IS	0.5 ml	10 mm	31.5 mm	250	1000
P10202IS	1.5 ml	13 mm	41 mm	100	430
P10203IS	2 ml	13 mm	41 mm	100	445

### Micro Centrifuges Tubes, PP (Coloured & Amber)

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P10207	0.5 ml Coloured	10 mm	31.5 mm	1000	904
P10201A	0.5 ml Amber	10 mm	31.5 mm	1000	1001
P10204	1.5 ml Coloured	13 mm	41 mm	500	657
P10204A	1.5 ml Amber	13 mm	41 mm	500	743
P10205	2.0 ml Coloured	13 mm	41 mm	500	708
P10203A	2.0 ml Amber	13 mm	41 mm	500	809

P10207, P10204 & P10205 are available in Red, Blue, Yellow and Green colour.



P10204A

P10203A

## 02 LAST DROP™, LOW RETENTION MICRO CENTRIFUGE TUBES, PP

- Abdos Micro Centrifuge tubes are manufactured using high purity virgin USP Class VI Medical grade polypropylene (PP) conforming to US FDA 21 CFR, free from natural rubber & heavy metal.
- These tubes can be used between -80°C to 121°C & with various organic solvents.
- Abdos low binding technology provides 10 times lesser retention level with highly viscous samples & saves costly reagents.
- These tubes are boil proof.
- These tubes come with integral snap cap.
- Frosting on the surface of the tubes makes writing easier.
- Large moulded-in graduations make identification easy.
- Can withstand up to 20000 xg RCF\*.



P10208

P10209

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P10208	0.5 ml	10 mm	31.5 mm	1000	1647
P10209	1.5 ml	13 mm	41 mm	500	1189
P10210	2 ml	13 mm	41 mm	500	1308

\*Depending on the quality of Centrifuge and compatibility of Rotor.



P10210

# ABDOS Screw Cap Tubes

## An expert in Safe Sample Preparation



Standard & Looped cap, available in various colors (Red, Green, Yellow, Blue, Orange, Purple & White).

The EPDM 'O' ring ensures maximum sealability, prevents evaporation & leakage.

Manufactured using high purity virgin USP Class VI medical grade Polypropylene (PP) conforming to US FDA 21 CFR

Knurl Tubes feature the ability to lock tubes into ABDOS Screw Cap Tube racks for single-hand operations

Withstand RCF up to 20,000xg

Fully Autoclavable, operating temperature Range up from -196°C to +121°C

Last Drop Screw Cap Tubes offer the Lowest retention with improved sample recovery.

Screw Cap Tubes are available in Printed, Non-Printed formats with Assembled cap option as well.



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Scan to watch product video.

## Non-printed and non-assembled

### Non- Sterile Screw cap tubes with EPDM O-Ring, PP

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P10223	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	5843
P10227	1.5 ml Self-standing	10.2 mm	44 mm	1000	5843
P10231	1.5 ml conical	10.2 mm	43.1 mm	1000	5843
P10235	2.0 ml Self-standing	10.2 mm	45.1 mm	1000	5843
P10239	2.0 ml conical	10.2 mm	44.3 mm	1000	5843
P10223A	0.5 ml amber Self-standing	10.2 mm	43.85 mm	1000	6538
P10223A1	0.5 ml transparent amber Self-standing	10.2 mm	43.85 mm	1000	6477
P10225	0.5 ml coloured Self-standing	10.2 mm	43.85 mm	1000	6477
P10260A	1.5 ml amber Self-standing	10.2 mm	44 mm	1000	6538
P10260A1	1.5 ml transparent amber Self-standing	10.2 mm	44 mm	1000	6477
P10229	1.5 ml coloured Self-standing	10.2 mm	44 mm	1000	6477
P10270A	1.5 ml amber conical	10.2 mm	43.1 mm	1000	6538
P10232A1	1.5 ml transparent amber conical	10.2 mm	43.1 mm	1000	6477
P10233	1.5 ml coloured conical	10.2 mm	43.1 mm	1000	6477

\*\* P10225, P10229, P10233, P10237, P10241 are available with red, blue, green, yellow, orange, purple & white color cap options for color coding

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P10272A	2.0 ml amber self-stand	10.2 mm	45.1 mm	1000	6538
P10236A1	2.0 ml transparent amber self-stand	10.2 mm	45.1 mm	1000	6477
P10237	2.0 ml coloured self-stand	10.2 mm	45.1 mm	1000	6477
P10274A	2.0 ml amber conical	10.2 mm	44.3 mm	1000	6538
P10240A1	2.0 ml transparent amber conical	10.2 mm	44.3 mm	1000	6477
P10241	2.0 ml coloured conical	10.2 mm	44.3 mm	1000	6477

### Last Drop Low Retention Screw cap tubes with EPDM O-Ring, PP

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P10222	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	8544
P10243	1.5 ml Self-standing	10.2 mm	44 mm	1000	8544
P10244	1.5 ml conical	10.2 mm	43.1 mm	1000	8544
P10245	2.0 ml Self-standing	10.2 mm	45.1 mm	1000	8544
P10246	2.0 ml conical	10.2 mm	44.3 mm	1000	8544

### Sterile Screw cap tubes with EPDM O-Ring, PP

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P10224	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	6505
P10228	1.5 ml Self-standing	10.2 mm	44 mm	1000	6505
P10232	1.5 ml Conical	10.2 mm	43.1 mm	1000	6505
P10236	2.0 ml self-standing	10.2 mm	45.1 mm	1000	6505
P10240	2.0 ml Conical	10.2 mm	44.3 mm	1000	6505
P10224A	0.5 ml amber Self-standing	10.2 mm	43.85 mm	1000	7277
P10224A1	0.5 ml transparent amber Self-standing	10.2 mm	43.85 mm	1000	7277
P10226	0.5 ml coloured Self-standing	10.2 mm	43.85 mm	1000	7277
P10228A	1.5 ml amber Self-standing	10.2 mm	43.95 mm	1000	7277
P10228A1	1.5 ml transparent amber Self-standing	10.2 mm	44 mm	1000	7208
P10230	1.5 ml coloured Self-standing	10.2 mm	44 mm	1000	7277
P10232A	1.5 ml amber conical	10.2 mm	43.1 mm	1000	7277
P10270A1	1.5 ml transparent amber conical	10.2 mm	43.1 mm	1000	7208
P10234	1.5 ml coloured conical	10.2 mm	43.1 mm	1000	7277

\*\* P10225, P10229, P10233, P10237, P10241 are available with red, blue, green, yellow, orange, purple & white color cap options for color coding

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P10236A	2.0 ml amber	10.2 mm	45.1 mm	1000	7277
P10272A1	2.0 ml transparent amber	10.2 mm	45.1 mm	1000	7208
P10238	2.0 ml coloured	10.2 mm	45.1 mm	1000	7277
P10240A	2.0 ml amber	10.2 mm	44.3 mm	1000	7277
P10274A1	2.0 ml transparent amber	10.2 mm	44.3 mm	1000	7208
P10242	2.0 ml coloured	10.2 mm	44.3 mm	1000	7277

### Last Drop Low Retention Screw cap tubes with EPDM O-Ring, PP

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P10221	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	9151
P10247	1.5 ml Self-standing	10.2 mm	44 mm	1000	9151
P10248	1.5 ml conical	10.2 mm	43.1 mm	1000	9151
P10249	2.0 ml Self-standing	10.2 mm	45.1 mm	1000	9151
P10250	2.0 ml conical	10.2 mm	44.3 mm	1000	9151

## Printed and Non-assembled

### Non- Sterile Screw cap tubes with EPDM O-Ring, PP

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P30223	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	6229
P30227	1.5 ml Self-standing	10.2 mm	44 mm	1000	6299
P30231	1.5 ml conical	10.2 mm	43.1 mm	1000	6229
P30235	2.0 ml self-standing	10.2 mm	45.1 mm	1000	6229
P30239	2.0 ml conical	10.2 mm	44.3 mm	1000	6229
P30223A	0.5 ml amber Self-standing	10.2 mm	43.85 mm	1000	6924
P30223A1	0.5 ml transparent amber Self-standing	10.2 mm	43.85 mm	1000	6863
P30225	0.5 ml coloured Self-standing	10.2 mm	43.85 mm	1000	6863
P30260A	1.5 ml amber Self-standing	10.2 mm	44 mm	1000	6924
P30260A1	1.5 ml transparent amber Self-standing	10.2 mm	44 mm	1000	6863
P30229	1.5 ml coloured Self-standing	10.2 mm	44 mm	1000	6863
P30270A	1.5 ml amber conical	10.2 mm	43.1 mm	1000	6924
P30232A1	1.5 ml transparent amber conical	10.2 mm	43.1 mm	1000	6863
P30233	1.5 ml coloured conical	10.2 mm	43.1 mm	1000	6863

\*\*\*P30225, P30229, P30233, P30237, P30241 are available with red, blue, green, yellow, orange, purple & white color cap options for color coding

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P30272A	2.0 ml amber self-standing	10.2 mm	45.1 mm	1000	6924
P30236A1	2.0 ml transparent amber self-standing	10.2 mm	45.1 mm	1000	6863
P30237	2.0 ml coloured self-standing	10.2 mm	45.1 mm	1000	6863
P30274A	2.0 ml amber Conical	10.2 mm	44.3 mm	1000	6924
P30240A1	2.0 ml transparent amber Conical	10.2 mm	44.3 mm	1000	6863
P30241	2.0 ml coloured Conical	10.2 mm	44.3 mm	1000	6863

### Last Drop Low Retention Screw cap tubes with EPDM O-Ring, PP

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P30222	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	8930
P30243	1.5 ml Self-standing	10.2 mm	44 mm	1000	8930
P30244	1.5 ml conical	10.2 mm	43.1 mm	1000	8930
P30245	2.0 ml Self-standing	10.2 mm	45.1 mm	1000	8930
P30246	2.0 ml conical	10.2 mm	44.3 mm	1000	8930

### Sterile Screw cap tubes with EPDM O-Ring, PP

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P30224	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	6891
P30228	1.5 ml Self-standing	10.2 mm	44 mm	1000	6891
P30232	1.5 ml Conical	10.2 mm	43.1 mm	1000	6891
P30236	2.0 ml self-standing	10.2 mm	45.1 mm	1000	6891
P30240	2.0 ml Conical	10.2 mm	44.3 mm	1000	6891
P30224A	0.5 ml amber Self-standing	10.2 mm	43.85 mm	1000	7662
P30224A1	0.5 ml transparent amber Self-standing	10.2 mm	43.85 mm	1000	7662
P30226	0.5 ml coloured Self-standing	10.2 mm	43.85 mm	1000	7662
P30228A	1.5 ml amber Self-standing	10.2 mm	43.95 mm	1000	7662
P30228A1	1.5 ml transparent amber Self-standing	10.2 mm	44 mm	1000	7594
P30230	1.5 ml coloured Self-standing	10.2 mm	44 mm	1000	7662
P30232A	1.5 ml amber conical	10.2 mm	43.1 mm	1000	7662
P30270A1	1.5 ml transparent amber conical	10.2 mm	43.1 mm	1000	7594
P30234	1.5 ml coloured conical	10.2 mm	43.1 mm	1000	7662

\*\*P30226, P30230, P30234, P30238, P30242 are available with red, blue, green, yellow, orange, purple & white color cap options for color coding

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P30236A	2.0 ml amber self-stand	10.2 mm	45.1 mm	1000	7662
P30272A1	2.0 ml transparent amber self-standing	10.2 mm	45.1 mm	1000	7594
P30238	2.0 ml coloured self-standing	10.2 mm	45.1 mm	1000	7662
P30240A	2.0 ml amber Conical	10.2 mm	44.3 mm	1000	7662
P30274A1	2.0 ml transparent amber Conical	10.2 mm	44.3 mm	1000	7594
P30242	2.0 ml coloured Conical	10.2 mm	44.3 mm	1000	7662

### Last Drop Low Retention Screw cap tubes with EPDM O-Ring, PP

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P30221	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	9537
P30247	1.5 ml Self-standing	10.2 mm	44 mm	1000	9537
P30248	1.5 ml conical	10.2 mm	43.1 mm	1000	9537
P30249	2.0 ml Self-standing	10.2 mm	45.1 mm	1000	9537
P30250	2.0 ml conical	10.2 mm	44.3 mm	1000	9537

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**Non- Sterile Screw cap tubes with EPDM O-Ring, PP**

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P40223	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	6119
P40227	1.5 ml Self-standing	10.2 mm	44 mm	1000	6119
P40231	1.5 ml conical	10.2 mm	43.1 mm	1000	6119
P40235	2.0 ml self-standing	10.2 mm	45.1 mm	1000	6119
P40239	2.0 ml	10.2 mm	44.3 mm	1000	6119
P40223A	0.5 ml amber self-standing	10.2 mm	43.85 mm	1000	6813
P40223A1	0.5 ml transparent amber self-standing	10.2 mm	43.85 mm	1000	6753
P40225	0.5 ml colour self-standing	10.2 mm	43.85 mm	1000	6753
P40260A	1.5 ml amber self-standing	10.2 mm	44 mm	1000	6813
P40260A1	1.5 ml transparent amber self-standing	10.2 mm	44 mm	1000	6753
P40229	1.5 ml colour self-standing	10.2 mm	44 mm	1000	6753
P40270A	1.5 ml amber conical	10.2 mm	43.1 mm	1000	6813
P40232A1	1.5 ml transparent amber conical	10.2 mm	43.1 mm	1000	6753
P40233	1.5 ml coloured conical	10.2 mm	43.1 mm	1000	6753

**\*\*P40225, P40229, P40233, P40237, P40241 are available with red, blue, green, yellow, orange, purple & white color cap options for color coding**

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P40272A	2.0 ml amber Self-standing	10.2 mm	45.1 mm	1000	6813
P40236A1	2.0 ml transparent amber Self-standing	10.2 mm	45.1 mm	1000	6753
P40237	2.0 ml coloured Self-standing	10.2 mm	45.1 mm	1000	6153
P40274A	2.0 ml amber conical	10.2 mm	44.3 mm	1000	6813
P40240A1	2.0 ml transparent amber conical	10.2 mm	44.3 mm	1000	6753
P40241	2.0 ml coloured conical	10.2 mm	44.3 mm	1000	6753

**Last Drop Low Retention Screw cap tubes with EPDM O-Ring, PP**

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P40222	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	8820
P40243	1.5 ml Self-standing	10.2 mm	44 mm	1000	8820
P40244	1.5 ml conical	10.2 mm	43.1 mm	1000	8820
P40245	2.0 ml Self-standing	10.2 mm	45.1 mm	1000	8820
P40246	2.0 ml conical	10.2 mm	44.3 mm	1000	8820

**Sterile Screw cap tubes with EPDM O-Ring, PP**

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P40224	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	6780
P40228	1.5 ml Self-standing	10.2 mm	44 mm	1000	6780
P40232	1.5 ml Conical	10.2 mm	43.1 mm	1000	6780
P40236	2.0 ml self-standing	10.2 mm	45.1 mm	1000	6780
P40240	2.0 ml Conical	10.2 mm	44.3 mm	1000	6780
P40224A	0.5 ml amber Self-standing	10.2 mm	43.85 mm	1000	7552
P40224A1	0.5 ml transparent amber Self-standing	10.2 mm	43.85 mm	1000	7552
P40226	0.5 ml coloured Self-standing	10.2 mm	43.85 mm	1000	7552
P40228A	1.5 ml amber Self-standing	10.2 mm	43.95 mm	1000	7552
P40228A1	1.5 ml transparent amber Self-standing	10.2 mm	44 mm	1000	7484
P40230	1.5 ml coloured Self-standing	10.2 mm	44 mm	1000	6780
P40232A	1.5 ml amber conical	10.2 mm	43.1 mm	1000	7552
P40270A1	1.5 ml transparent amber conical	10.2 mm	43.1 mm	1000	7484
P40234	1.5 ml coloured conical	10.2 mm	43.1 mm	1000	7552

**\*\*P40226, P40230, P40234, P40238, P40242 are available with red, blue, green, yellow, orange, purple & white color cap options for color coding**

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P40236A	2.0 ml amber	10.2 mm	45.1 mm	1000	7552
P40272A1	2.0 ml transparent amber	10.2 mm	45.1 mm	1000	7484
P40238	2.0 ml coloured	10.2 mm	45.1 mm	1000	7552
P40240A	2.0 ml amber	10.2 mm	44.3 mm	1000	7552
P40274A1	2.0 ml transparent amber	10.2 mm	44.3 mm	1000	7484
P40242	2.0 ml coloured	10.2 mm	44.3 mm	1000	7552

**Last Drop Low Retention Screw cap tubes with EPDM O-Ring, PP**

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P40221	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	9426
P40247	1.5 ml Self-standing	10.2 mm	44 mm	1000	9426
P40248	1.5 ml conical	10.2 mm	43.1 mm	1000	9426
P40249	2.0 ml Self-standing	10.2 mm	45.1 mm	1000	9426
P40250	2.0 ml conical	10.2 mm	44.3 mm	1000	9426

**Printed and Assembled**

**Non- Sterile Screw cap tubes with EPDM O-Ring, PP**

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P50223	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	6505
P50227	1.5 ml Self-standing	10.2 mm	44 mm	1000	6505
P50231	1.5 ml conical	10.2 mm	43.1 mm	1000	6505
P50235	2.0 ml self-standing	10.2 mm	45.1 mm	1000	6505
P50239	2.0 ml conical	10.2 mm	44.3 mm	1000	6505
P50223A	0.5 ml amber Self-standing	10.2 mm	43.85 mm	1000	7199
P50223A1	0.5 ml transparent amber Self-standing	10.2 mm	43.85 mm	1000	7139
P50225	0.5 ml coloured Self-standing	10.2 mm	43.85 mm	1000	7139
P50260A	1.5 ml amber Self-standing	10.2 mm	44 mm	1000	7199
P50260A1	1.5 ml transparent amber Self-standing	10.2 mm	44 mm	1000	7139
P50229	1.5 ml coloured Self-standing	10.2 mm	44 mm	1000	7139
P50270A	1.5 ml amber conical	10.2 mm	43.1 mm	1000	7199
P50232A1	1.5 ml transparent amber conical	10.2 mm	43.1 mm	1000	7139
P50233	1.5 ml coloured conical	10.2 mm	43.1 mm	1000	7139

**\*\*P50225, P50229, P50233, P50237, P50241 are available with red, blue, green, yellow, orange, purple & white color cap options for color coding**

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P50272A	2.0 ml amber self-standing	10.2 mm	45.1 mm	1000	7199
P50236A1	2.0 ml transparent amber self-standing	10.2 mm	45.1 mm	1000	7139
P50237	2.0 ml coloured self-standing	10.2 mm	45.1 mm	1000	7139
P50274A	2.0 ml amber Conical	10.2 mm	44.3 mm	1000	7870
P50240A1	2.0 ml transparent amber Conical	10.2 mm	44.3 mm	1000	
P50241	2.0 ml coloured Conical	10.2 mm	44.3 mm	1000	7139

**Last Drop Low Retention Screw cap tubes with EPDM O-Ring, PP**

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P50222	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	9206
P50243	1.5 ml Self-standing	10.2 mm	44 mm	1000	9206
P50244	1.5 ml conical	10.2 mm	43.1 mm	1000	9206
P50245	2.0 ml Self-standing	10.2 mm	45.1 mm	1000	9206
P50246	2.0 ml conical	10.2 mm	44.3 mm	1000	9206

**Sterile Screw cap tubes with EPDM O-Ring, PP**

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P50224	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	7166
P50228	1.5 ml Self-standing	10.2 mm	44 mm	1000	7166
P50232	1.5 ml Conical	10.2 mm	43.1 mm	1000	7166
P50236	2.0 ml self-standing	10.2 mm	45.1 mm	1000	7166
P50240	2.0 ml Conical	10.2 mm	44.3 mm	1000	7166
P50224A	0.5 ml amber Self-standing	10.2 mm	43.85 mm	1000	7938
P50224A1	0.5 ml transparent amber Self-standing	10.2 mm	43.85 mm	1000	7938
P50226	0.5 ml coloured Self-standing	10.2 mm	43.85 mm	1000	7938
P50228A	1.5 ml amber Self-standing	10.2 mm	43.95 mm	1000	7938
P50228A1	1.5 ml transparent amber Self-standing	10.2 mm	44 mm	1000	7870
P50230	1.5 ml coloured Self-standing	10.2 mm	44 mm	1000	9812
P50232A	1.5 ml amber conical	10.2 mm	43.1 mm	1000	7938
P50270A1	1.5 ml transparent amber conical	10.2 mm	43.1 mm	1000	7870
P50234	1.5 ml coloured conical	10.2 mm	43.1 mm	1000	7938

**\*\*P50226, P50230, P50234, P50238, P50242 are available with red, blue, green, yellow, orange, purple & white color cap options for color coding**

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P50236A	2.0 ml amber self-stand	10.2 mm	45.1 mm	1000	7938
P50272A1	2.0 ml transparent amber self-standing	10.2 mm	45.1 mm	1000	7199
P50238	2.0 ml coloured self-standing	10.2 mm	45.1 mm	1000	7938
P50240A	2.0 ml amber Conical	10.2 mm	44.3 mm	1000	7938
P50274A1	2.0 ml transparent amber Conical	10.2 mm	44.3 mm	1000	7870
P50242	2.0 ml coloured Conical	10.2 mm	44.3 mm	1000	7938

**Last Drop Low Retention Screw cap tubes with EPDM O-Ring, PP**

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P50221	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	9812
P50247	1.5 ml Self-standing	10.2 mm	44 mm	1000	9812
P50248	1.5 ml conical	10.2 mm	43.1 mm	1000	9812
P50249	2.0 ml Self-standing	10.2 mm	45.1 mm	1000	9812
P50250	2.0 ml conical	10.2 mm	44.3 mm	1000	9812

## Non-Printed Screw Cap Tube with Looped Cap

### Non-Sterile Screw cap tubes with Looped Cap

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
PI0252	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	6720
PI0254	1.5 ml Self-standing	10.2 mm	44 mm	1000	6720
PI0256	1.5 ml conical	10.2 mm	43.1 mm	1000	6720
PI0258	2.0 ml Self-standing	10.2 mm	45.1 mm	1000	6720
PI0260	2.0 ml conical	10.2 mm	44.3 mm	1000	6720
PI0252A	0.5 ml amber Self-standing	10.2 mm	43.85 mm	1000	7519
PI0252A1	0.5 ml transparent amber Self-standing	10.2 mm	43.85 mm	1000	7451
PI0262	0.5 ml coloured Self-standing	10.2 mm	43.85 mm	1000	7451
PI0254A	1.5 ml amber Self-standing	10.2 mm	44 mm	1000	7519
PI0254A1	1.5 ml transparent amber Self-standing	10.2 mm	44 mm	1000	7451
PI0264	1.5 ml coloured Self-standing	10.2 mm	44 mm	1000	7451
PI0256A	1.5 ml amber conical	10.2 mm	43.1 mm	1000	7519
PI0256A1	1.5 ml transparent amber conical	10.2 mm	43.1 mm	1000	7451
PI0266	1.5 ml coloured conical	10.2 mm	43.1 mm	1000	7451

\*\* PI0225, PI0229, PI0233, PI0237, PI0241 are available with red, blue, green, yellow, orange, purple & white color cap options for color coding

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
PI0258A	2.0 ml amber self-stand	10.2 mm	45.1 mm	1000	7519
PI0258A1	2.0 ml transparent amber self-stand	10.2 mm	45.1 mm	1000	7451
PI0268	2.0 ml coloured self-stand	10.2 mm	45.1 mm	1000	7451
PI0268A	2.0 ml amber conical	10.2 mm	44.3 mm	1000	7519
PI0268A1	2.0 ml transparent amber conical	10.2 mm	44.3 mm	1000	7451
PI0270	2.0 ml coloured conical	10.2 mm	44.3 mm	1000	7451

### Last Drop Low Retention Screw cap tubes with Looped Cap

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
PI0272	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	9827
PI0273	1.5 ml Self-standing	10.2 mm	44 mm	1000	9827
PI0274	1.5 ml conical	10.2 mm	43.1 mm	1000	9827
PI0275	2.0 ml Self-standing	10.2 mm	45.1 mm	1000	9827
PI0276	2.0 ml conical	10.2 mm	44.3 mm	1000	9827

### Sterile Screw Cap tubes with Looped Cap

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
PI0253	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	7480
PI0255	1.5 ml Self-standing	10.2 mm	44 mm	1000	7480
PI0257	1.5 ml Conical	10.2 mm	43.1 mm	1000	7480
PI0259	2.0 ml self-standing	10.2 mm	45.1 mm	1000	7480
PI0261	2.0 ml Conical	10.2 mm	44.3 mm	1000	7480
PI0253A	0.5 ml amber Self-standing	10.2 mm	43.85 mm	1000	8368
PI0253A1	0.5 ml transparent amber Self-standing	10.2 mm	43.85 mm	1000	8368
PI0263	0.5 ml coloured Self-standing	10.2 mm	43.85 mm	1000	8368
PI0255A	1.5 ml amber Self-standing	10.2 mm	43.95 mm	1000	8368
PI0255A1	1.5 ml transparent amber Self-standing	10.2 mm	44 mm	1000	8291
PI0265	1.5 ml coloured Self-standing	10.2 mm	44 mm	1000	8368
PI0257A	1.5 ml amber conical	10.2 mm	43.1 mm	1000	8368
PI0257A1	1.5 ml transparent amber conical	10.2 mm	43.1 mm	1000	8291
PI0267	1.5 ml coloured conical	10.2 mm	43.1 mm	1000	8368

PI0263, PI0265, PI0267, PI0269 & PI0271 are available with red, blue, green, yellow, orange, purple & white color looped cap options for color coding

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
PI0259A	2.0 ml amber	10.2 mm	45.1 mm	1000	8368
PI0259A1	2.0 ml transparent amber	10.2 mm	45.1 mm	1000	8291
PI0269	2.0 ml coloured	10.2 mm	45.1 mm	1000	8368
PI0261A	2.0 ml amber	10.2 mm	44.3 mm	1000	8368
PI0261A1	2.0 ml transparent amber	10.2 mm	44.3 mm	1000	8291
PI0271	2.0 ml coloured	10.2 mm	44.3 mm	1000	8368

### Last Drop Low Retention Screw Cap tubes with Looped Cap

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
PI0277	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	10523
PI0278	1.5 ml Self-standing	10.2 mm	44 mm	1000	10523
PI0279	1.5 ml conical	10.2 mm	43.1 mm	1000	10523
PI0280	2.0 ml Self-standing	10.2 mm	45.1 mm	1000	10523
PI0281	2.0 ml conical	10.2 mm	44.3 mm	1000	10523

## Printed Screw Cap Tube with Looped Cap

### Non-Sterile Screw cap tubes with Looped Cap

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
PI0340	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	7164
PI0342	1.5 ml Self-standing	10.2 mm	44 mm	1000	7164
PI0344	1.5 ml conical	10.2 mm	43.1 mm	1000	7164
PI0346	2.0 ml self-standing	10.2 mm	45.1 mm	1000	7164
PI0348	2.0 ml conical	10.2 mm	44.3 mm	1000	7164
PI0340A	0.5 ml amber Self-standing	10.2 mm	43.85 mm	1000	7962
PI0340A1	0.5 ml transparent amber Self-standing	10.2 mm	43.85 mm	1000	7894
PI0350	0.5 ml coloured Self-standing	10.2 mm	43.85 mm	1000	7894
PI0342A	1.5 ml amber Self-standing	10.2 mm	44 mm	1000	7962
PI0342A1	1.5 ml transparent amber Self-standing	10.2 mm	44 mm	1000	7894
PI0352	1.5 ml coloured Self-standing	10.2 mm	44 mm	1000	7894
PI0344A	1.5 ml amber conical	10.2 mm	43.1 mm	1000	7962
PI0344A1	1.5 ml transparent amber conical	10.2 mm	43.1 mm	1000	7894
PI0354	1.5 ml coloured conical	10.2 mm	43.1 mm	1000	7894

PI0350, PI0352, PI0354, PI0356, PI0358 are available with red, blue, green, yellow, orange, purple & white color looped cap options for color coding

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
PI0346A	2.0 ml amber self-standing	10.2 mm	45.1 mm	1000	7962
PI0346A1	2.0 ml transparent amber self-standing	10.2 mm	45.1 mm	1000	7894
PI0356	2.0 ml coloured self-standing	10.2 mm	45.1 mm	1000	7894
PI0348A	2.0 ml amber Conical	10.2 mm	44.3 mm	1000	7962
PI0348A1	2.0 ml transparent amber Conical	10.2 mm	44.3 mm	1000	7894
PI0358	2.0 ml coloured Conical	10.2 mm	44.3 mm	1000	7894

### Last Drop Low Retention Screw cap tubes with EPDM O-Ring, PP

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
PI0360	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	10270
PI0361	1.5 ml Self-standing	10.2 mm	44 mm	1000	10270
PI0362	1.5 ml conical	10.2 mm	43.1 mm	1000	10270
PI0363	2.0 ml Self-standing	10.2 mm	45.1 mm	1000	10270
PI0364	2.0 ml conical	10.2 mm	44.3 mm	1000	10270

### Sterile Screw cap tubes with Looped Cap

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
PI0341	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	7925
PI0343	1.5 ml Self-standing	10.2 mm	44 mm	1000	7925
PI0345	1.5 ml Conical	10.2 mm	43.1 mm	1000	7925
PI0347	2.0 ml self-standing	10.2 mm	45.1 mm	1000	7925
PI0349	2.0 ml Conical	10.2 mm	44.3 mm	1000	7925
PI0341A	0.5 ml amber Self-standing	10.2 mm	43.85 mm	1000	8813
PI0341A1	0.5 ml transparent amber Self-standing	10.2 mm	43.85 mm	1000	8813
PI0351	0.5 ml coloured Self-standing	10.2 mm	43.85 mm	1000	8813
PI0343A	1.5 ml amber Self-standing	10.2 mm	43.95 mm	1000	8813
PI0343A1	1.5 ml transparent amber Self-standing	10.2 mm	44 mm	1000	8734
PI0353	1.5 ml coloured Self-standing	10.2 mm	44 mm	1000	8813
PI0345A	1.5 ml amber conical	10.2 mm	43.1 mm	1000	8813
PI0345A1	1.5 ml transparent amber conical	10.2 mm	43.1 mm	1000	8734
PI0355	1.5 ml coloured conical	10.2 mm	43.1 mm	1000	8813

PI0351, PI0353, PI0355, PI0357 & PI0359 are available with red, blue, green, yellow, orange, purple & white color looped cap options for color coding

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
PI0347A	2.0 ml amber self-standing	10.2 mm	45.1 mm	1000	8813
PI0347A1	2.0 ml transparent amber self-standing	10.2 mm	45.1 mm	1000	8734
PI0357	2.0 ml coloured self-standing	10.2 mm	45.1 mm	1000	8813
PI0349A	2.0 ml amber Conical	10.2 mm	44.3 mm	1000	8813
PI0349A1	2.0 ml transparent amber Conical	10.2 mm	44.3 mm	1000	8734
PI0359	2.0 ml coloured Conical	10.2 mm	44.3 mm	1000	8813

### Last Drop Low Retention Screw cap tubes with EPDM O-Ring,PP

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
PI0365	0.5 ml Self-standing	10.2 mm	43.85 mm	1000	10968
PI0366	1.5 ml Self-standing	10.2 mm	44 mm	1000	10968
PI0367	1.5 ml conical	10.2 mm	43.1 mm	1000	10968
PI0368	2.0 ml Self-standing	10.2 mm	45.1 mm	1000	10968
PI0369	2.0 ml conical	10.2 mm	44.3 mm	1000	10968

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# Centrifuge Tube Techniques

Abdos centrifuge tubes are manufactured from ultra pure USP class VI certified virgin medical grade polypropylene to ensure the highest quality & confirming to US FDA 21 CFR.

Unique printing technology makes the surface chemical resistant & scratch proof.

Perfect grip on screw cap provides secure control on the cap in wet conditions.

Even wall thickness to withstand maximum G-force, 18000\*g RCF. Suitable for temperatures between -80°C and +121°C.

Sterile tubes have been validated according to ISO 11137 SAL 10<sup>-6</sup>. The large white frosted portion for easy writing. Highly transparent, 5% less haze than competitor.

Hydrodynamic conical bottom for perfect pelleting of sediments.

Free from heavy metals, natural rubber & inhibitory plasticizers.

Gas chromatography/ Mass spectrometry (GC/MS) tests ensure purity of the products.

## The Cap

Specially designed flat thread confirms perfect vacuum tight closure, makes it leak proof & prevents override of cap.

Unique plug seal ensures perfect sealing & makes it leak proof.



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## 04 CENTRIFUGE TUBES CONICAL BOTTOM, PP/HDPE

- Abdos Centrifuge tubes are manufactured using high purity virgin USP Class VI Medical grade polypropylene (PP) conforming to US FDA 21 CFR, free from natural rubber & heavy metal.
- The large white frosted portion for easy writing.
- Silk-Screen graduation makes identification easy.
- Amber colour option for light-sensitive samples.
- Built-in plug in the cap makes it leak proof.
- Sterile Tubes have been validated according to ISO 11137 for SAL 10<sup>-6</sup>.
- Can withstand up to 18000 xg RCF\*.



### Centrifuge Tube Conical Bottom, PP/HDPE

Code	Capacity	Cap Colour	Outer Diameter	Height	No./case	Price/case (₹)	Price/ 20 case (₹)
PI0430	15 ml (Bulk)	Blue	16.5 mm	121 mm	500	4196	78890
PI0401	15 ml	Blue	16.5 mm	121 mm	500	4615	86758
PI0441	15 ml	Red	16.5 mm	121 mm	500	4615	86758
PI0402	15 ml, Sterile	Blue	16.5 mm	121 mm	500	4994	93887
PI0442	15 ml, Sterile	Red	16.5 mm	121 mm	500	4994	93887
PI0431	50 ml (Bulk)	Blue	29.2 mm	116 mm	500	5688	106932
PI0403	50 ml	Blue	29.2 mm	116 mm	500	5949	111845
PI0443	50 ml	Red	29.2 mm	116 mm	500	5949	111845
PI0404	50 ml, Sterile	Blue	29.2 mm	116 mm	500	7368	138522
PI0444	50 ml, Sterile	Red	29.2 mm	116 mm	500	7368	138522

### Centrifuge Tube Conical Bottom, PP AMBER

Code	Capacity	Cap Colour	Outer Diameter	Height	No./case	Price/case (₹)
PI0405	15 ml, Amber	Blue	16.5 mm	121 mm	500	5708
PI0406	15 ml, Sterile Amber	Blue	16.5 mm	121 mm	500	6188
PI0407	50 ml, Amber	Blue	29.2 mm	116 mm	500	7323
PI0408	50 ml, Sterile Amber	Blue	29.2 mm	116 mm	500	9045
PI0405T	15 ml, Transparent Amber	Blue	16.5 mm	121 mm	500	5708
PI0406T	15 ml, Transparent Amber, Sterile	Blue	16.5 mm	121 mm	500	6188
PI0407T	50 ml, Transparent Amber	Blue	29.2 mm	116 mm	500	7323
PI0408T	50 ml, Transparent Amber, Sterile	Blue	29.2 mm	116 mm	500	9045

\*Depending on the quality of Centrifuge and compatibility of Rotor.

\*Transparent Amber Centrifuge tubes can be supplied upon request.



## 05 CENTRIFUGE TUBES CONICAL BOTTOM, PS/HDPE

- Abdos Centrifuge tubes are manufactured using high purity virgin USP Class VI Polystyrene (PS) conforming to US FDA 21 CFR, free from natural rubber and heavy metal.
- Polystyrene centrifuge tube are hydrophobic & its biologically inert surface is good for cell and protein recovery.
- Perform well with animal cell culture handling.
- The large white frosted portion for easy writing.
- Silk-Screen graduation makes identification easy.
- Built-in plug in the cap makes it leak proof.
- Sterile Tubes have been validated according to ISO 11137 for SAL 10<sup>-6</sup>.
- Can withstand up to 2500 xg RCF\*.



Code	Capacity	Cap Colour	Outer Diameter	Height	No./case	Price/case (₹)
PI0419	15 ml, Sterile	Blue	16.5 mm	121 mm	500	6102
PI0421	15 ml, Racked Sterile	Blue	16.5 mm	121 mm	500 (25 pcs x 20 racks)	7436

\*Depending on the quality of Centrifuge and compatibility of Rotor.



- Abdos Centrifuge tubes are manufactured using high purity virgin USP Class VI Medical grade polypropylene (PP) conforming to US FDA 21 CFR, free from natural rubber & heavy metal.
- The large white frosted portion for easy writing.
- Silk-Screen graduation makes identification easy.
- Built-in plug in the cap makes it leak proof.
- Sterile Tubes have been validated according to ISO 11137 for SAL 10<sup>-6</sup>
- Can withstand up to 18000 xg RCF\*.
- Abdos low binding technology provides 10 times lesser retention level with highly viscous samples & saves costly reagents.
- Super homogenous surface free sites prevent non-specific binding.



Centrifuge Tube Conical Bottom, PP/HDPE

Code	Capacity	Cap Colour	Outer Diameter	Height	No./case	Price/case (₹)
P10525	15ml, Non-Sterile	Natural	16.5 mm	121 mm	500	6672
P10526	15ml, Sterile	Natural	16.5 mm	121 mm	500	7228
P10527	50ml, Non-Sterile	Natural	29.2 mm	116 mm	500	8566
P10528	50ml, Sterile	Natural	29.2 mm	116 mm	500	10610

07 CENTRIFUGE TUBES SELF STANDING, PP/HDPE

- Abdos Centrifuge tubes are manufactured using high purity virgin USP Class VI Medical grade polypropylene (PP) conforming to US FDA 21 CFR, free from natural rubber & heavy metal.
- Skirted bottom makes it easier to use without any rack.
- The large white frosted portion for easy writing.
- Silk-Screen graduation makes identification easy.
- Built-in plug in the cap makes it leak proof.
- Sterile Tubes have been validated according to ISO 11137 for SAL 10<sup>-6</sup>.
- Can withstand up to 7000 xg RCF\*.



Code	Capacity	Cap Colour	Outer Diameter	Height	No./case	Price/case (₹)
P10432	50 ml (Bulk)	Blue	29.2 mm	117.3 mm	500	6579
P10423	50 ml	Blue	29.2 mm	117.3 mm	500	6854
P10449	50 ml	Red	29.2 mm	117.3 mm	500	6854
P10424	50 ml, Sterile	Blue	29.2 mm	117.3 mm	500	8492
P10450	50 ml, Sterile	Red	29.2 mm	117.3 mm	500	8492

\*Depending on the quality of Centrifuge and compatibility of Rotor.



Organization: IISER pune

Ease of Use ★★★★★  
 After Sales Service ★★★★★  
 Value for Money ★★★★★

“ Nice quality of product.Overall good support quality for product and service,keep ups ”

★★★★★ Average Rating 5.0  
 Application Area: Centrifuge nice quality  
 Nice quality of product.Overall good support & service quality ,keep it up.  
 Review Date: 4 Jul 2023 | Abdos

## 08 PURERIGHT™ INDIVIDUALLY WRAPPED CENTRIFUGE TUBE CONICAL BOTTOM, PP/HDPE

- Abdos Centrifuge tubes are manufactured using high purity virgin USP Class VI Medical grade polypropylene (PP) conforming to US FDA 21 CFR, free from natural rubber & heavy metal.
- Best suited for less number of samples.
- The large white frosted portion for easy writing.
- Silk-Screen graduation makes identification easy.
- Built-in plug in the cap makes it leak proof.
- Sterile Tubes have been validated according to ISO 11137 for SAL 10<sup>-6</sup>.
- Can withstand upto 18,000 xg RCF\* & 7000 xg RCF\* for Conical & Self-standing centrifuge tubes respectively.



Code	Capacity	Cap Colour	Outer Diameter	Height	No./case	Price/case (₹)
PI0425	15 ml, Sterile	Blue	16.5 mm	121 mm	600	6710
PI0451	15 ml, Sterile	Red	16.5 mm	121 mm	600	6710
PI0426	50 ml, Sterile	Blue	29.2 mm	116 mm	350	7706
PI0452	50 ml, Sterile	Red	29.2 mm	116 mm	350	7706
PI0427	50 ml Self Standing, Sterile	Blue	29.2 mm	117.3 mm	350	7769
PI0453	50 ml Self Standing, Sterile	Red	29.2 mm	117.3 mm	350	7769

\*Depending on the quality of Centrifuge and compatibility of Rotor.



## 09 RACKED CENTRIFUGE TUBES CONICAL BOTTOM, PAPER

- These racks are made of eco-friendly paper to hold 25 Abdos 15 ml & 50 ml Conical Bottom Centrifuge Tubes.



Code	Capacity	Height	Colour	No./case	Price/case (₹)
PI0409	15 ml, Rack Only	47 mm	-	10	970
PI0410	50 ml, Rack Only	48 mm	-	10	970
PI0411	15 ml, Racked	121 mm	Blue	500 (25 pcs x 20 racks)	6538
PI0412	15 ml, Racked, Sterile	121 mm	Blue	500 (25 pcs x 20 racks)	7325
PI0462	15 ml, Racked, Sterile	121 mm	White	500 (25 pcs x 20 racks)	7325
PI0413	15 ml, Amber, Racked	121 mm	Blue	500 (25 pcs x 20 racks)	7682
PI0414	15 ml, Amber, Racked, Sterile	121 mm	Blue	500 (25 pcs x 20 racks)	8406
PI0465	15 ml, Amber, Racked, Sterile	121 mm	White	500 (25 pcs x 20 racks)	7325
PI0415	50 ml, Racked	116 mm	Blue	500 (25 pcs x 20 racks)	9378
PI0416	50 ml, Racked, Sterile	116 mm	Blue	500 (25 pcs x 20 racks)	10854
PI0417	50 ml, Amber, Racked	116 mm	Blue	500 (25 pcs x 20 racks)	10771
PI0418	50 ml, Amber, Racked, Sterile	116 mm	Blue	500 (25 pcs x 20 racks)	12479
PI0463	50 ml, Amber, Racked	116 mm	White	500 (25 pcs x 20 racks)	10854
PI0455	15 ml, Racked	121 mm	Red	500 (25 pcs x 20 racks)	6538



## 10 SCREW CAP TUBE RACK, PC 20 PLACES (10 X 2 FORMAT)

- Abdos screw cap tube rack suitable for placing 20 screw cap tubes.
- Knurl locking for one handed operation.
- Dimensions (L x B x H) : 256 x 61 x 41 mm

Code	Capacity	Length	Breadth	Height	No./case	Price/Case
P20235	0.5/1.5/2.0 ml	256 mm	61 mm	41 mm	1	1890



**NEW**

- Abdos MaxiRCF™ Trace Metal Free centrifuge tubes are manufactured using high purity virgin USP Class VI Medical grade polypropylene conforming to US FDA 21 CFR, free from natural rubber & heavy metal.
- Abdos MaxiRCF™ Trace Metal Free Centrifuge Tubes withstands 20,000xg RCF.
- Pure, Additive Free Natural Colour Cap for easy labelling and Trace Metal free.
- Abdos MaxiRCF™ Trace Metal Free Centrifuge Tubes works excellently in high density gradient separation of sample.
- Large white frosted area for easy writing.
- Sterile tubes are validated according to ISO 11137 for SAL 10<sup>-6</sup>.

Abdos MaxiRCF™ Trace Metal Free centrifuge tubes are specifically manufactured to ensure that common trace metals and elements that can interfere with experiments are below an ICP-MS detection level of one part per billion (< 1ppb).

Metals included in testing are: Silver, Zinc, Iron, Copper, Manganese, Aluminum, Silicon, Nickel, Vanadium, Phosphorous, Cobalt, Chromium, Lithium, Selenium, Cadmium, Mercury, Arsenic, Lead and Boron.

\*Note : MaxiRCF™ Trace Metal Free centrifuge tubes:

- 50 ml CT (Conical Bottom) with 20000\*g RCF
- 50 ml CT (Self Standing) with 7000\*g RCF
- 15 ml CT (Conical Bottom) with 20000\*g RCF

MaxiRCF™ technology works excellent in high density-gradient separation of sample.



Scan to watch product video.



MaxiRCF™ screw caps are certified leak proof.

MaxiRCF™ Indigenous resin technology provides uniform wall thickness.

ABDOS MaxiRCF™ Centrifuge technology delivers 20000\*g RCF.

MaxiRCF™ Thick, durable, medical-grade resin withstands breakage and allows frozen storage at -80°C.



Code	Capacity	Cap Colour	Outer Diameter	Height	No./case	Price/case (₹)
PI0480	15 ml (Bulk)	Natural	16.5 mm	121 mm	500	5062
PI0481	15 ml	Natural	16.5 mm	121 mm	500	5569
PI0482	15 ml, Sterile	Natural	16.5 mm	121 mm	500	6075
PI0483	50 ml (Bulk)	Natural	29.2 mm	116 mm	500	6834
PI0484	50 ml	Natural	29.2 mm	116 mm	500	7059
PI0485	50 ml, Sterile	Natural	29.2 mm	116 mm	500	8641
PI0486	50 ml, Self Standing (Bulk)	Natural	29.2 mm	117.3 mm	500	8048
PI0487	50 ml, Self Standing	Natural	29.2 mm	117.3 mm	500	8496
PI0488	50 ml, Self Standing (Sterile)	Natural	29.2 mm	117.3 mm	500	10517

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## 12 LARGE CAPACITY CENTRIFUGE TUBES, PP/HDPE

**NEW**

- Abdos 250ml and 500ml centrifuge tubes are designed to process large volumes of samples simultaneously. With their high capacity and reliable performance, these tubes are ideal for the separation and harvesting of different type of cells, like bacteria, yeast, and tissue samples as well.
- Tubes are made up of high purity USP Class VI Virgin Polypropylene. And Caps are of USP Class VI HDPE material.
- Can be centrifuged up to an RCF of 6000 x g.
- Available in Gamma Sterilized Bulk packaging.



Code	Capacity	Height	No./case	Price/case (₹)
PI0499	250ml	161 mm	100	17028
PI0500	500ml	146.81 mm	40	15015

## 13 RACK FOR MICRO CENTRIFUGE TUBE, RPP

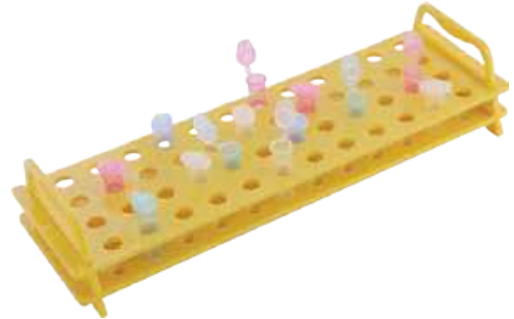
- Sturdy rack with rubber support at the bottom for stability.
- Racks lock together on each side to allow the user to attach several racks for larger experiments.
- Compatible with both 1.5 ml and 2.0 ml Micro Centrifuge Tube.
- Easy removal and insertion of tubes.
- Each hole has moulded-in numbers for easy sample identification.



Code	Capacity	Places	Colour	L x W x H	No./case	Price/case (₹)
P20205	1.5 & 2.0 ml	20 Places (10x2 Array)	White	215 x 70 x 40 mm	8	1851

## 14 RACK FOR MICRO CENTRIFUGE TUBE, PC

- Easy to hold ergonomic design.
- Each hole has moulded-in numbers and letters for easy sample identification.
- Racks are stackable when empty or full.
- Easy removal and insertion of tubes.
- Compatible with both 1.5 ml and 2.0 ml Micro Centrifuge Tubes.



Code	Capacity	Places	Colour	L x W x H	No./case	Price/case (₹)
P20201	1.5 & 2.0 ml	24 Places (6x4 Array)	White	164 x 100 x 59 mm	8	3144
P20202	1.5 & 2.0 ml	24 Places (6x4 Array)	Yellow	164 x 100 x 59 mm	8	3144
P20203	1.5 & 2.0 ml	48 Places (12x4 Array)	White	293 x 100 x 59 mm	8	5761
P20204	1.5 & 2.0 ml	48 Places (12x4 Array)	Yellow	293 x 100 x 59 mm	8	5761

## 15 CENTRIFUGE TUBE BOX, PP

- Abdos Centrifuge tube box provides a more durable and rugged alternative to cardboard or foam racks.
- The distinctive green colour on the 15 ml and blue colour on the 50 ml makes these racks easy to distinguish.
- These racks can withstand a temperature of -80°C to 121°C.
- All grids are properly indexed with a clear lid that provides easy tube identification.



Code	Tube Capacity	Colour	Places	L x W x H	No./case	Price/case (₹)
P20604	15 ml	Green	36 Places (6 x 6 Array)	147 x 147 x 126 mm	4	2461
P20605	50 ml	Blue	16 Places (4 x 4 Array)	147 x 147 x 126 mm	4	2461

## 16 CLICK TOGETHER CONICAL TUBE RACKS, ABS

- Shipped flat, they are easy to assemble and snap together securely.
- Designed for stable use in a water bath.
- Alphanumeric index aids for tube identification.



Code	Tube Capacity	Colour	Places	L x W x H	No./case	Price/case (₹)
P20218	15 ml & 50 ml	Blue	15 ml Tube - 30 (6 x 5 Array) 50 ml Tube - 20 (5 x 4 Array)	209 x 171 x 63 mm	4	3804
P20219	15 ml & 50 ml	Blue	15 ml Tube - 18 (6 x 3 Array) 50 ml Tube - 10 (5 x 2 Array)	209 x 98 x 63 mm	4	3375



## 17 UNIVERSAL CENTRIFUGE TUBE RACK, PP

- Ideal for firmly holding a wide range of tubes and vessels.
- Accepts tubes and vessels from 16-30 mm.
- Moulded indexing for easy identification of tubes and vials.
- Quickly change the tube with this adaptable polypropylene rack. Open the well with a turn of the knob or directly insert a tube into the opening.
- Generous handles for easy transport.



Code	Tube Capacity	Colour	Places	L x W x H	No./case	Price/case (₹)
P20212	15 ml & 50 ml	Blue	12 (4 x 3 Array)	194 X 140 X 51 mm	1	7241



## 18 FOLDABLE SPACE SAVING RACK, PP

- Simple to open and close, expand and collapse when racks are needed.
- Designed to help recognize 15 and 50 ml tubes.
- Moulded indexing for easy identification of tubes and vials.
- Racks can be stacked in open or closed position.
- Save space when racks are not in use.
- Available in individual 17 mm hole diameter for 15 ml tubes & 30 mm hole diameter for 50 ml tubes or combination of both 17 mm & 30 mm hole diameter for 15 ml & 50 ml centrifuge tubes.



Code	Tube Capacity	Colour	Places	L x W x H	No./case	Price/case (₹)
P20213	15 ml	Purple	45 (9 x 5 Array)	255 x 137 x 72 mm	2	4630
P20214	50 ml	Green	18 (6 x 3 Array)	255 x 137 x 72 mm	2	4630
P20215	15 ml & 50 ml	Blue	15 ml Tube - 21 (7 x 3 Array) 50 ml Tube - 12 (6 x 2 Array)	255 x 137 x 72 mm	2	4630
P20216	15 ml & 50 ml	Pink	15 ml Tube - 21 (7 x 3 Array) 50 ml Tube - 12 (6 x 2 Array)	255 x 137 x 72 mm	2	4630



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## 19 FLOATING RACK FOR MICRO CENTRIFUGE TUBE, PP

- Use on the bench, with water bath or ice containers.
- Polypropylene racks keep micro tubes afloat in water bath or can be pushed into crushed ice – perfect for controlling sample temperature.
- Not recommended for autoclaving.
- Detachable legs provide two options:
  - a. Attach legs so rack stands upright on bench top.
  - b. Detach legs so samples can be quickly popped out by pushing down onto any surface.



Code	Tube Capacity	Colour	Places	L x W x H	Shape	No./case	Price/case (₹)
P20225	1.5 ml & 2 ml	White	16	102 x 102 x 60 mm	Square	4	1696
P20226	1.5 ml & 2 ml	White	20	98 x 60 (Ø x h) mm	Round	4	2309

## 20 SWIRL MICRO PLATE CENTRIFUGE

- Less than half the size of conventional centrifuge (9 x 10 inches).
- The easily reachable rotor chamber includes two plate carriers that rest at a 75° angle, thus allowing plates to be inserted confidently without seal in tapes or caps.
- Upon closing the lid of the centrifuge, the rotor accelerates and the centrifugal force swings the plates into a horizontal position. Any droplets on the walls of the plate quickly concentrate into the well bottoms.
- With a G-force of 600 xg, most samples can be spun.
- Just open the lid and the automatic electric brake brings the rotor to a quick & smooth stop in just 4.0 seconds.



Code	Product	No./case	Price/case (₹)
E11550	Swirl Micro Plate Centrifuge (comes with E11551)	1	127404

### Spare Accessories:

Code	Product	No./case	Price/case (₹)
E11551	Adapter, 96 x 0.2 ml or 8 and 12 x PCR strips.	2	10142
E11552	Rotor with carriers for deepwell plates upto 35mm tall (max speed 1500 rpm)	1	33125



### SPECIFICATIONS :

Voltage	220-230 V
Frequency	50-60 Hz
Max Speed	2550 rpm/600 xg
Rotor Capacity	2 x 2 PCR Plates 2 x Microtiter plates 24 x 0.2 mL PCR Strips
Deceleration	4 seconds
Dimensions	230 x 260 x 197 mm
Weight	4.0 kg
Permissible Ambient Temperature	4 to +40°C
Permissible Relative Humidity	80%

\*When stacking skirted PCR plates, max capacity is 4 plates.



Before & after centrifugation  
(angled position)



During centrifugation  
(Horizontal position)

- Swirl Maxi is a personal micro centrifuge used for sedimentation of cells and virus, separation of sub-cellular organelles and isolation of macromolecules such as DNA, RNA, proteins or lipids.
- Swirl Maxi is used in physical and chemical analysis, biochemistry, cellular biology, clinical labs, blood donation centre and high-end research.
- Swirl Maxi has a large ergonomic design with easy to read display and sound.
- Both RPM and G-force can be displayed.
- Swirl Maxi is stable and silent during operation. It also delivers fast acceleration and deceleration.
- Swirl Maxi conforms to international safety standards and regulations. It has also passed the explosion proof test from CE, TUV and FCC.
- Swirl Maxi adapts a Brushless DC Motor.
- Automatic lid-lock release prevents sample warming and allows easy access to samples.
- The short spin function is used for quick spins by pressing and holding PULSE key. The centrifuge speed can be accelerated and held at the target speed.
- High strength aluminium alloy rotors are fully autoclavable, and can withstand steam sterilizing at 121°C for 20 minutes.



Code	Product	No./case	Price/case (₹)
E11510	Swirl Maxi Micro Centrifuge with 12 Place Rotor for 0.2, 0.5, 1.5 & 2.0 ml (E11511)	1	105676

*\*Adapters for 0.2 & 0.5 ml not included as standard.*

#### Spare Accessories:

Code	Product	No./case	Price/case (₹)
E11511	12 Place Rotor for 0.2, 0.5, 1.5 & 2.0 ml	1	34581
E11512	Rotor Adapter for 0.2 ml - 2.0 ml used with E11511	24	7799
E11513	Rotor Adapter for 0.5 ml - 2.0 ml used with E11511	24	7799

#### SPECIFICATIONS :

Voltage	220-240 V
Frequency	50-60 Hz
Current	3 A
Max Speed	15000 rpm (500-15000 rpm) with increment of 100 rpm
Max. RCF [xg]	15100 xg with increment of 100 xg
Speed Accuracy	±20 rpm
Rotor Capacity	0.2mL, 0.5mL, 1.5 mL & 2mL x 12 places.
Run Time	30 sec - 99 min & PULSE (Continuous operation)
Driving Motor	Brushless DC motor
Safety Devices	Dual door interlock Over-speed detection Over temperature detection Automatic internal diagnosis
Noise Level	≤54 dB
Additional Features	Speed/RCF switch Short-time run function Sound-alert function
Acceleration /Braking time	11 sec for Acceleration & 9 sec for Braking
Dimensions	255 x 245 x 140 mm
Weight	6 kg
Permissible Ambient Temperature	4°C to 40°C
Permissible Relative Humidity	80%



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- Swirl is a small, compact and reliable centrifuge for spin-down and microfiltration procedures.
- Swirl is supplied with 8 place angular rotor of 1.5 ml and a PCR rotor that admit four strips of 0.2 mL PCR strip.
- It has a maximum speed of 7000 rpm/2680 xg RCF.
- It uses minimal bench-top space.
- Rotor can change without tools and the machine accelerates and brakes in seconds.
- Swirl adapts a DC Motor.
- CE explosion proof safe test IEC/EN61010-2-20.



Code	Product	No./case	Price/case (₹)
E11501	Swirl Mini Micro Centrifuge Including 8 Place Rotor for 1.5 & 2.0 ml Tube (E11502) & 4 Place Rotor for 8 x 0.2 ml Tube Strip (E11503)	1	17302

#### Spare Accessories:

Code	Product	No./case	Price/case (₹)
E11502	8 Place Rotor for 1.5 & 2.0 ml	1	4545
E11503	32 (8 x 4) Strips Place Rotor for 0.2 ml PCR & 32 Place Rotor for 0.2 ml PCR tubes	1	3376

#### SPECIFICATIONS :

Voltage	220-240 V
Frequency	50-60 Hz
Max Speed	7000 rpm
Max RCF	2680 xg
Run Time	Continuous operation
Rotor Capacity	0.2/0.5/1.5/2.0 mL x 8 0.2 mL x 32 PCR Tubes 0.2 mL x 4 PCR 8 Strips
Noise Level	≤45 dB
Dimensions	160 x 170 x 122 mm
Weight	0.5 kg
Permissible ambient temperature	4 to 45°C
Permissible relative humidity	80%



Organization: Tata Institute of Fundamental Research, Hyderabad

Ease of Use ★★★★★  
After Sales Service ★★★★★  
Value for Money ★★★★★

“ This equipment is very useful to have on the workbench for quick spin down of samples ”

★★★★★ Average Rating 5.0

Application Area: Quick centrifuge of samples in 1.5ml or 2ml MCTs

The mini centrifuge is pretty easy to use and functions smoothly.

Review Date: 7 Jul 2023 | Abdos

- Unique design for the horizontal rotor centrifuge.
- Short-spin and timing of two operations make the tests more convenient.
- Braking time from max. speed: less than 30sec.
- Timer can be set up to 10 minutes.
- Streamline design with more compact shape and transparent PC lid.
- It can accept below formats:
  - PCR standard plates with skirted, non-skirted
  - Elisa Plates
  - 8x0.2ml PCR strip tubes
  - 0.2ml PCR tubes



Code	Product	No./case	Price/case (₹)
E11560	SwirlMini Plate Centrifuge, 2200rpm (with E11561 & E11562)	1	91350

#### Spare Accessories:

Code	Product	No./case	Price/case (₹)
E11561	Adaptor for PCR plates with skirt and without skirt	2	1575
E11562	Adaptor for 8x0.2ml strip or 0.2ml PCR tubes	2	1575

#### SPECIFICATIONS :

Voltage	220V/120V
Frequency	50/60Hz
Max. Speed	2200rpm/480xg
Rotor Capacity	2 x 2 PCR Plates 2 x Microtiter Plates 8 x 0.2ml 8 strip PCR Tubes 96 x 0.2ml tubes
Deceleration	Less than 30 seconds
Dimensions (WxDxH)	290 x 360 x 140mm
Weight	3.6 kg





Quality is never an accident.  
It is always the result of  
intelligent & focussed efforts



# 02

## Cryo Techniques

Freezing Tubes  
Cryo Vials  
Storage Vials  
Cryo Boxes & More

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## 24 FREEZING TUBES, PP

- Abdos Freezing tubes are manufactured using high purity virgin polypropylene (PP) conforming to US FDA 21 CFR free from natural rubber, heavy metal.
- Manufactured to be used at a temperature between -80° C to 121° C.
- Large white frosted portion for easy writing.
- Silk-Screen graduation makes identification easy.
- Built in plug in the cap makes it leak proof.
- Sterile Tubes have been validated according to EN ISO 11137 for SAL 10<sup>-6</sup>



Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)	Price/20 case (₹)
P60102	1.8 ml Sterile Skirted Foot	11.80 mm	45.7 mm	1000	7252	136338
P60103	4.5 ml Sterile Skirted Foot	11.80 mm	86.5 mm	500	5801	109059



P60102

P60103

## 25 STORAGE VIAL, PP

- Abdos Storage Vial are manufactured using high purity virgin USP Class VI Medical grade polypropylene (PP) conforming to US FDA 21 CFR, free from natural rubber & heavy metal.
- Used for storage of PCR reagents, enzymes and other diagnostics & biochemical reagents or samples.
- HDPE screw closure is leak proof.
- Can be used at low temperature.
- Amber Storage Vial can be used for light-sensitive samples.



### Storage Vial Natural, PP

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P60119	1.0 ml	12.0 mm	41 mm	1000	3858
P60106	2.0 ml	11.8 mm	47.2 mm	1000	4015
P60107	5.0 ml	11.8 mm	88.0 mm	1000	4780

### Storage Vial Amber, PP

Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)
P60119A	1.0 ml Amber	12.0 mm	41 mm	1000	5013
P60119A1	1.0 ml Transparent Amber	12.0 mm	41 mm	1000	5013
P60106A	2.0 ml Amber	11.80 mm	45.7 mm	1000	5217
P60106A1	2.0 ml Transparent Amber	11.80 mm	45.7 mm	1000	5217
P60107A	5.0 ml Amber	11.80 mm	86.5 mm	1000	6266
P60107A1	5.0 ml Transparent Amber	11.80 mm	86.5 mm	1000	6266



P60119

P60106

P60107

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- Abdos Cryo Vial external thread are manufactured using high purity virgin USP Class VI Medical grade polypropylene (PP) conforming to US FDA 21 CFR, free from natural rubber & heavy metal.
- Abdos Cryo Vial is designed for long-term cryogenic storage of biological samples, all type of cells and any enzymes or reagents.
- It's leak-proof cap design and strong wall thickness makes it an ideal product for transporting samples and specimens.
- These cryo vials are designed for mechanical freezing and it's external screw cap design reduces the risk of contamination due to handling.
- Manufactured to be used at a temperature between -196°C to 121°C.
- The large white frosted portion for easy writing.
- Graduation in silk-screen printing makes identification easy.
- Unique Star Foot design allows for single hand operation and grooves into Abdos P20616 single hand cryo holder rack.
- Best suited for IVD use (an IVDR Certified product).
- Sterile Tubes have been validated according to ISO 11137 for SAL 10<sup>-6</sup>.

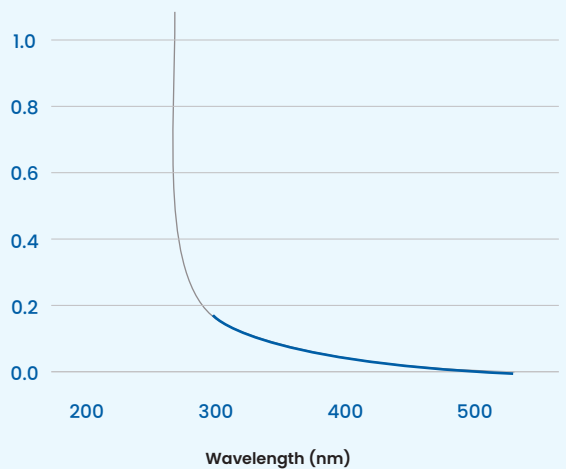


Code	Capacity	Outer Diameter	Height	No./case	Price/case (₹)	Price/20 Case (₹)
P60115	1.0 ml Sterile Star Foot	12.00 mm	41.0 mm	1000	7293	137108
P60116	1.8 ml Sterile Star Foot	12.00 mm	48.5 mm	1000	8048	151293
P60117	1.8 ml Sterile Round Bottom	12.00 mm	47.5 mm	1000	8048	151293
P60118	4.5 ml Sterile Skirted Foot	11.80 mm	86.5 mm	500	5763	108344
P60122	4.5 ml Sterile Star Foot	11.80 mm	86.5 mm	500	5763	108344
P60123	4.5 ml Sterile Round Bottom	11.80 mm	86.5 mm	500	5763	108344

\* Please note compatible coders for P60118 Cryo Vial 4.5 ml Skirted Foot is P60104.



LEECHING PERFORMANCE REPORT WITH DMSO



The graph demonstrates no absorbants & confirms no traceable leeching with DMSO (Dimethyl sulfoxide).

\* Caution: Do not use Abdos Cryogenic vial in the liquid phase of liquid nitrogen. Improper use may cause liquified nitrogen to be trapped inside the vial and lead to pressure build up resulting in possible explosion or biohazard release. Can be used in vapour phase of liquid nitrogen.

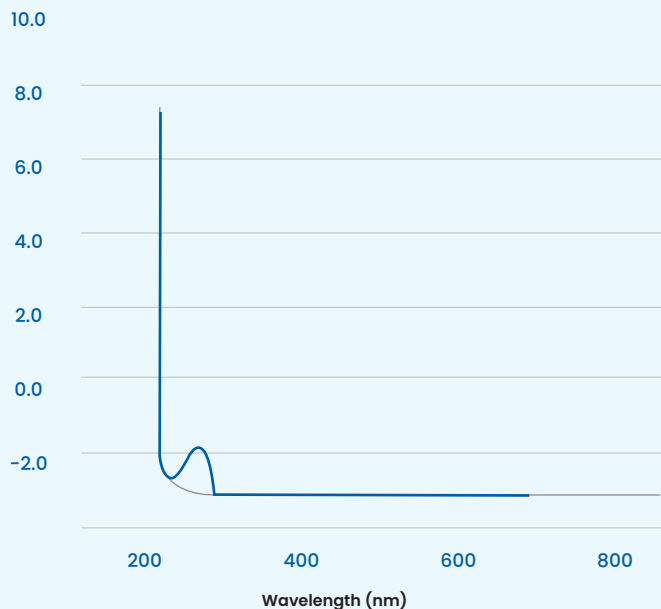
Abdos Cryo Vial being taken out of Liquid Nitrogen Canister.

- Abdos Cryo Vial internal thread are manufactured using high purity virgin USP Class VI Medical grade polypropylene (PP) conforming to US FDA 21 CFR, free from natural rubber & heavy metal.
- Abdos Cryo Vial is designed for long-term cryogenic storage of biological samples, all type of cells and any enzymes or reagents.
- It's leak-proof cap design with Silicon Seal and strong wall thickness makes it an ideal product for transporting samples and specimens.
- These cryo vials are designed for vapour phase LN<sub>2</sub> freezing and also incorporate a silicone seal to enhance cap sealing.
- Manufactured to be used at a temperature between -196°C to 121°C.
- The large white frosted portion for easy writing.
- Graduation in silk-screen printing makes identification easy.
- Unique Star Foot design allows for single hand operation and grooves into Abdos P20616 single hand cryo holder rack.
- The silicon ring used in Abdos Cryo Vial for Sealing effects is made up of the material & ingredient under the code of federal regulation 21, as per 21 CFR 177.2600 (G) & meets USP – Class VI Regularities under plastic vial & Cap.
- Best suited for IVD use (an IVDR Certified product).
- Sterile Tubes have been validated according to ISO 11137 for SAL 10<sup>-6</sup>.



Code	Capacity	Outer Diameter	Height	No./case	Price/Case (₹)	Price/20 Case (₹)
P60108	1.0 ml Sterile Star Foot	12.3 mm	41.2 mm	1000	11500	216200
P60109	1.8 ml Sterile Star Foot	12.3 mm	47.5 mm	1000	12018	225929
P60110	1.8 ml Round Bottom	12.3 mm	46.2 mm	1000	12018	225929
P60112	4.5 ml Sterile Star Foot	12.3 mm	90.3 mm	500	8151	153239
P60113	4.5 ml Sterile Round Bottom	12.3 mm	89.0 mm	500	8151	153239

### LEECHING PERFORMANCE REPORT WITH DMSO



The graph demonstrates no absorbants & confirms no traceable leeching with DMSO (Dimethyl sulfoxide).

\* Caution: Do not use Abdos Cryogenic vial in the liquid phase of liquid nitrogen. Improper use may cause liquified nitrogen to be trapped inside the vial and lead to pressure build up resulting in possible explosion or biohazard release. Can be used in vapour phase of liquid nitrogen.



P60108

P60109

P60110

P60112

P60113

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## 28 CRYO CODERS FOR EXTERNAL & INTERNAL THREADED VIALS, HDPE

- These coders fit onto the top of 'Abdos' skirted foot externally threaded cryogenic vial closures.
- These provide quick visual identification of specific vials to simplify inventory maintenance.
- Available in a wide range of colours.
- Also compatible with Abdos Freezing Tube.

Code	Colour of Cap	No./case	Price/piece (₹)	Price/Case (₹)
P60114W	White	100	1.93	202
P60114B	Blue	100	1.93	202
P60114R	Red	100	1.93	202
P60114Y	Yellow	100	1.93	202
P60114G	Green	100	1.93	202



## 29 SINGLE HAND CRYO HOLDER RACK, PC

- Designed for use with Cryogenic Vial, Freezer Tubes, Storage Vial and Micro Tubes.
- It has unique innovative locking system allowing the user to unlock star foot Cryo Vial with one hand.
- The rack has a secure locking system in each well that will not allow the Cryo Vial to turn on either side.
- Inbuilt numbered and letters grid for sample identification.
- Anti-skid rubber feet support the rack.



Code	Tube Capacity	Places	Colors	L x W x H	No./case	Price/case (₹)
P20616	1 - 2 ml	40 (10 x 4 Array)	White, Yellow, Blue	201 x 105 x 22 mm	4	2450

## 30 CRYO BOX, PC

- Made of strong polycarbonate and designed to be used at a temperature between -196°C to 121°C.
- Can be used in gas phase of liquid nitrogen with appropriate safety procedure in place.
- Transparent lids permit viewing of contents.
- These boxes create small, space-efficient storage system within a large mechanical freezer.
- Lids have numbered grid for sample identification. The surface of the lid has a frosted area suitable for writing with markers, facilitating inventory control.
- The dimensions of the cryo box are compatible with vertical, horizontal and drawer style freezer racks.
- Specially Designed venting in base & lid ensures a smooth flow for vapours for consistency in cooling.



Code	Tube Capacity	Places	Colors	L x W x H	No./case	Price/case (₹)
P20601	1 - 2 ml	25 (5 x 5 Array)	White, Yellow, Blue	75 x 75 x 54 mm	8	1921
P20601 Assorted	1 - 2 ml	25 (5 x 5 Array)	White, Yellow, Blue	75 x 75 x 54 mm	8	1921
P20602	1 - 2 ml	81 (9 x 9 Array)	White, Yellow, Blue	133 x 132 x 54 mm	4	2411
P20602 Assorted	1 - 2 ml	81 (9 x 9 Array)	White, Yellow, Blue	133 x 132 x 54 mm	4	2411
P20603	5 ml	81 (9 x 9 Array)	White, Yellow, Blue	133 x 132 x 97 mm	4	3391
P20603 Assorted	5 ml	81 (9 x 9 Array)	White, Yellow, Blue	133 x 132 x 97 mm	4	3391

\* Add colour code of your choice- White (W), Yellow (Y), Blue (B).

## 31 CRYO BOX, SYSTEM 100 PLACES, PC

- Made of strong polycarbonate and designed to be used at a temperature between -196°C to 121°C.
- Can be used in gas phase of liquid nitrogen with appropriate safety procedure in place.
- These boxes have 10x10 array (100 places) that can optimize the storage volume of the end user.
- These boxes create small, space-efficient storage system within a large mechanical freezer.
- Transparent lids permit viewing of contents.
- Lids have numbered grid for sample identification. The surface of the lid has a frosted area suitable for writing with markers, facilitating inventory control.
- The dimensions of the P20615 Cryo Box are compatible with vertical, horizontal and drawer style freezer racks.



Code	Tube Capacity	Places	Colors	L x W x H	No./case	Price/case (₹)
P20615	1 - 2 ml (Freezer Compatible)	100 (10 x 10 Array)	White, Yellow, Blue	133 x 133 x 54 mm	4	2826
P20611	1 - 2 ml	100 (10 x 10 Array)	White, Yellow, Blue	140 x 140 x 54 mm	4	2826

\* Add colour code of your choice- White (W), Yellow (Y), Blue (B).

## 32 CRYO CUBE BOX / STORAGE CUBE BOX, PP

- Manufactured in state of the art moulding facility using high purity polypropylene.
- These boxes are stackable, versatile and designed for sample storage up to -80°C.
- These boxes help you to meet storage requirements of 1.5 - 2.0 ml microtubes & 1.0-2.0 ml cryogenic vials.
- The dimension of P20614 Cryo Cube Box is compatible with vertical, horizontal & drawer style freezer racks.
- These boxes have hinged lid connected to the base and the ultra smooth locking system ensures secure closure preventing accidental opening of these boxes in deep freezers.
- Inbuilt numbered and letters grid for sample identification.



Code	Tube Capacity	Places	Colors	L x W x H	No./case	Price/case (₹)
P20612	1.5 - 2 ml Micro Tube & 1- 2 ml Cryo Tube	50 (10 x 5 Array)	Green, Yellow, Blue	142 x 85 x 59 mm	8	1984
P20614	1.5 - 2 ml Micro Tube & 1- 2 ml Cryo Tube	81 (9 x 9 Array)	Green, Yellow, Blue	130 x 130 x 55 mm	4	1720
P20607	1.5 - 2 ml Micro Tube & 1- 2 ml Cryo Tube	100 (10 x 10 Array)	Green, Yellow, Blue	140 x 140 x 55 mm	4	1871

## 33 FREEZING CARDBOARD CRYO BOXES, CARDBOARD

- Designed for storage and preservation of frozen samples.
- Can withstand ultra-low temperature in deep freezer.
- The removable top lid makes it easy to open and close.
- These boxes can be used for upright freezers, drawers & chest freezers with dividers.
- Lamination on these boxes does not allow moisture to soak or liquid to stick on these boxes.



Code	Tube Capacity	Places	L x W x H	No./case	Price/case (₹)
P20606	1.5 - 2 ml Micro Tube & 1- 2 ml Cryo Tube	81 (9 x 9 Array)	132 x 132 x 50 mm	8	2356
P20613	1.5 - 2 ml Micro Tube & 1- 2 ml Cryo Tube	100 (10 x 10 Array)	132 x 132 x 50 mm	8	2356

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Quality is the result of  
high intention, sincere effort  
& skillful execution

# 03

## Liquid Handling

Single & Multichannel Pipettes

Tips: Micro & Large Tips,  
Filter Tips, Low Retention Tips

Sample Containers

Pasteur & Serological Pipettes

Ria Vials & More



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# Elegant

“ **NEW** ADDITION ”

## Fully Autoclavable Micropipettes

Abdos introduces fully autoclavable, ergonomically designed Elegant micropipettes which offers high level of accuracy and precision. All Elegant Pipettes have Chemical & UV Resistant Body.

One of The  
World's  
Lightest  
Pipette



Volume Lock



Lightweight, Ergonomic, Low force design



4 Digit Counter



Filter Element



Organization: CSIR-Indian Institute of Integrative Medicine, Jammu-180001

“ Great Results, Easy to Use and smooth with accuracy ”

Ease of Use ★★★★★  
After Sales Service ★★★★★  
Value for Money ★★★★★

★★★★★ Average Rating 5.0

Application Area: Solent take up accurate volume pipetting

The newly available elegant fully autoclavable micropipette is pretty easy to use and with accuracy and serviceable it gives us the freedom to work with in R&D lab

Review Date: 15 Dec 2022 | Abdos

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Code	colour	Volume Range	Increment	Test Volume	Maximum Permissible Systematic Error		Maximum Permissible Random Error		No./case	Price/case (₹)
					Inaccuracy	Imprecision				
E11150	White	0.1-2.5 µl	0.002 µl	2.5 µl	1.40%	0.04 µl	0.70%	0.02 µl	1	13000
				1.25 µl	2.50%	0.03 µl	1.50%	0.02 µl		
				0.25 µl	12.00%	0.03 µl	6.00%	0.02 µl		
E11151	Light Grey	0.5-10 µl	0.01 µl	10 µl	1.00%	0.1 µl	0.40%	0.04 µl	1	13000
				5 µl	1.50%	0.08 µl	0.80%	0.04 µl		
				1 µl	2.50%	0.03 µl	1.80%	0.04 µl		
E11152	Yellow	2-20 µl	0.02 µl	20 µl	1.00%	0.2 µl	0.30%	0.06 µl	1	13000
				10 µl	1.20%	0.12 µl	0.60%	0.06 µl		
				2 µl	5.00%	0.1 µl	1.50%	0.03 µl		
E11153	Yellow	10-100 µl	0.1 µl	100 µl	0.80%	0.8 µl	0.20%	0.2 µl	1	13000
				50 µl	1.00%	0.5 µl	0.30%	0.15 µl		
				10 µl	3.00%	0.3 µl	1.00%	0.1 µl		
E11154	Orange	20-200 µl	0.2 µl	200 µl	0.60%	1.2 µl	0.20%	0.4 µl	1	13000
				100 µl	1.00%	1 µl	0.30%	0.3 µl		
				20 µl	2.50%	0.5 µl	0.70%	0.14 µl		
E11155	Red	30-300 µl	0.2 µl	300 µl	0.60%	1.8 µl	0.20%	0.6 µl	1	13000
				150 µl	1.00%	1.5 µl	0.30%	0.45 µl		
				30 µl	2.50%	0.75 µl	0.70%	0.21 µl		
E11156	Dark Blue	100-1000 µl	1 µl	1000 µl	0.60%	6 µl	0.20%	2 µl	1	13000
				500 µl	1.00%	5 µl	0.20%	1 µl		
				100 µl	3.00%	3 µl	0.60%	0.6 µl		
E11157	Purple	500-5000 µl	5 µl	5000 µl	0.60%	30 µl	0.20%	10 µl	1	13000
				2500 µl	0.60%	15 µl	0.30%	7.5 µl		
				500 µl	2.40%	12 µl	0.60%	3 µl		
E11158	Peacock Blue	1000-10000 µl	10 µl	10000 µl	0.60%	60 µl	0.20%	20 µl	1	13000
				5000 µl	0.80%	40 µl	0.20%	10 µl		
				1000 µl	3.00%	30 µl	0.60%	6 µl		

The pack contains, Elegant pipette, Sample pack of Tips, Filter Element (except 2.5 & 10ul), Recalibration/Allen Key, Silicone Grease, Shelf Mounting Pipette Holder, User Manual, Quick Start Guide and QC Certificate.

## Avoid Repetitive Strain Injury with Elegant



Light Weight  
for Less Fatigue



Less Pressure  
on Piston



Ergonomically  
Designed

## Abdos Premium Plus Pipettes

ABDOS pipette meets the highest needs in precision and accuracy – combined with ultimate ergonomics and increased flexibility with sophisticated blend of features and functionality.

It is easy to calibrate and maintain with tools supplied.

It is supplied with operator manual that provides complete information on recalibration and maintenance of the pipette.



Comfortable Finger Support: helps in prolonged pipetting operation with less fatigue.

Easy Calibration: Calibrated accordance with ISO8655. Each pipette is supplied with Individual Calibration Certificate.

Display: Clear and easy read display with large numbers and precise increment.

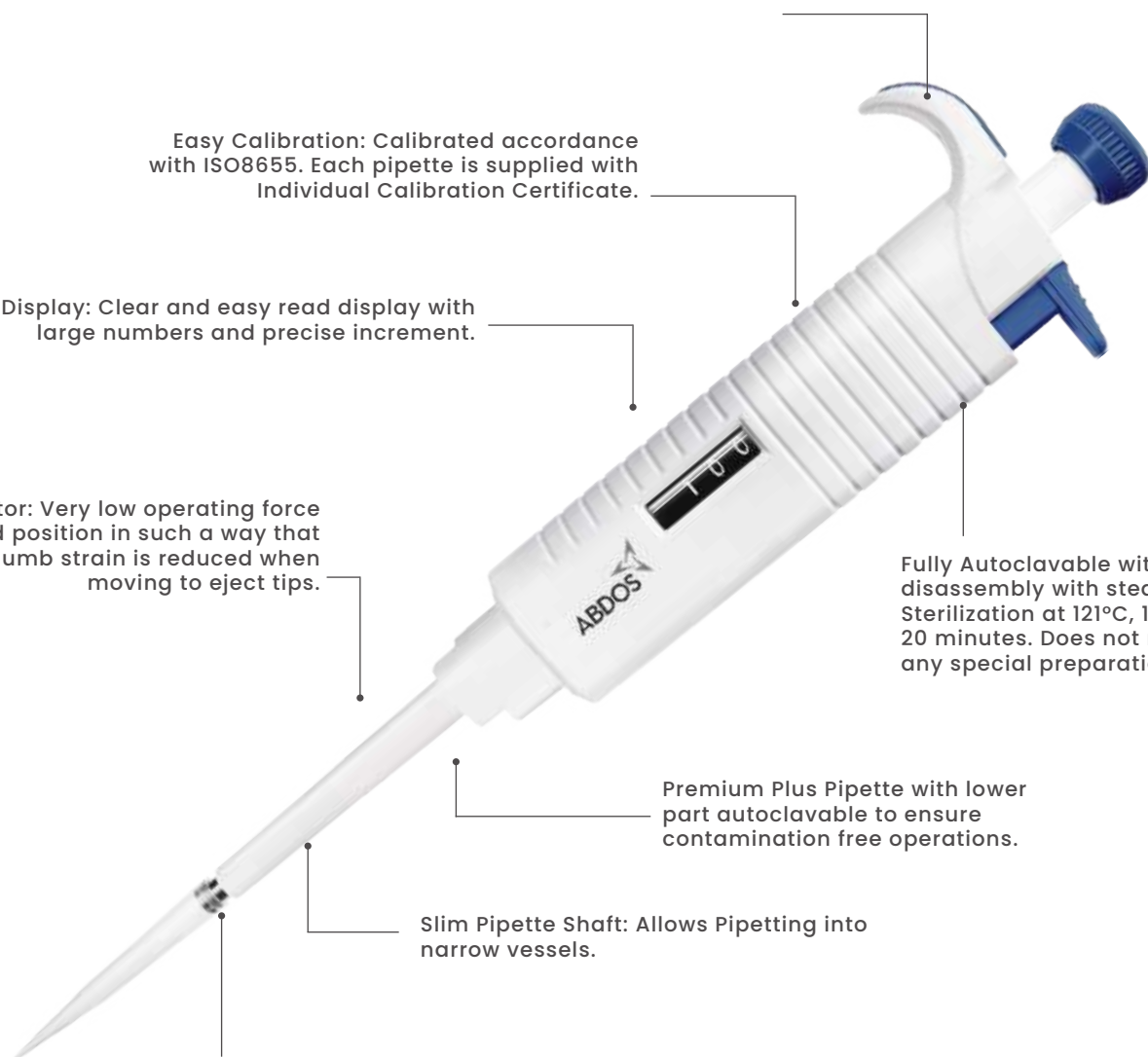
Ejector: Very low operating force and position in such a way that thumb strain is reduced when moving to eject tips.

Fully Autoclavable without disassembly with steam Sterilization at 121°C, 1atm for 20 minutes. Does not require any special preparations.

Premium Plus Pipette with lower part autoclavable to ensure contamination free operations.

Slim Pipette Shaft: Allows Pipetting into narrow vessels.

Tip Cone: Optimized Standard Design. Pipette tips from ABDOS and other manufacturers can be used.





Code	Capacity	Increment	Test Volume	Maximum Permissible Systematic Error		Maximum Permissible Random Error		No./case	Price/case (₹)
				Inaccuracy	Inaccuracy	Imprecision	Imprecision		
E11145	0.1 – 2.5 µl	0.05 µl	2.5 µl	± 2.50 %	± 0.062 µl	± 2.00 %	± 0.05 µl	1	6530
			1.25 µl	± 3.00 %	± 0.037 µl	± 3.00 %	± 0.0375 µl		
			0.25 µl	± 12.00 %	± 0.03 µl	± 6.00 %	± 0.015 µl		
E11107	0.5 – 10 µl	0.1 µl	10 µl	± 1.00 %	± 0.1 µl	± 0.80 %	± 0.08 µl	1	6530
			5 µl	± 1.50 %	± 0.075 µl	± 1.50 %	± 0.075 µl		
			1 µl	± 2.50 %	± 0.025 µl	± 1.50 %	± 0.015 µl		
E11108	2 – 20 µl	0.5 µl	20 µl	± 0.90 %	± 0.18 µl	± 0.40 %	± 0.08 µl	1	6530
			10 µl	± 1.20 %	± 0.12 µl	± 1.00 %	± 0.10 µl		
			2 µl	± 3.00 %	± 0.06 µl	± 2.00 %	± 0.04 µl		
E11146	5 – 50 µl	0.5 µl	50 µl	± 0.60 %	± 0.3 µl	± 0.30 %	± 0.15 µl	1	6530
			25 µl	± 0.90 %	± 0.225 µl	± 0.60 %	± 0.15 µl		
			5 µl	± 2.00 %	± 0.1 µl	± 2.00 %	± 0.1 µl		
E11109	10 – 100 µl	1.0 µl	100 µl	± 0.80 %	± 0.80 µl	± 0.15 %	± 0.15 µl	1	6530
			50 µl	± 1.00 %	± 0.50 µl	± 0.40 %	± 0.20 µl		
			10 µl	± 3.00 %	± 0.30 µl	± 1.50 %	± 0.15 µl		
E11110	20 – 200 µl	1.0 µl	200 µl	± 0.60 %	± 1.20 µl	± 0.15 %	± 0.30 µl	1	6530
			100 µl	± 0.80 %	± 0.80 µl	± 0.30 %	± 0.30 µl		
			20 µl	± 3.00 %	± 0.60 µl	± 1.00 %	± 0.20 µl		
E11147	50 – 200 µl	1.0 µl	200 µl	± 0.60 %	± 1.20 µl	± 0.15 %	± 0.30 µl	1	6530
			100 µl	± 0.80 %	± 0.80 µl	± 0.30 %	± 0.30 µl		
			50 µl	± 1.00 %	± 0.50 µl	± 0.40 %	± 0.2 µl		
E11111	100 – 1000 µl	5.0 µl	1000 µl	± 0.60 %	± 6 µl	± 0.20 %	± 2 µl	1	6530
			500 µl	± 0.70 %	± 3.50 µl	± 0.25 %	± 1.25 µl		
			100 µl	± 2.00 %	± 2 µl	± 0.7 %	± 0.70 µl		
E11134	500 – 5000 µl	50 µl	5000 µl	± 0.50 %	± 25 µl	± 0.15 %	± 7.5 µl	1	6530
			2500 µl	± 0.60 %	± 15 µl	± 0.30 %	± 7.5 µl		
			500 µl	± 0.70 %	± 3.5 µl	± 0.30 %	± 1.5 µl		
E11135	1000 – 10000 µl	100 µl	1000 µl	± 0.60 %	± 60 µl	± 0.20 %	± 20 µl	1	6530
			5000 µl	± 1.20 %	± 60 µl	± 0.30 %	± 15 µl		
			10000 µl	± 3.00 %	± 30 µl	± 0.60 %	± 6 µl		



Organization: CSIR- Institute of microbial technology Chandigarh

Ease of Use ★★★★★

After Sales Service ★★★★★

Value for Money ★★★★★

“ Great build quality. ”

★★★★★ Average Rating 4.7

Application Area: Biocatalysis and drug synthesis

I have recently purchased a pipette of 1000 microliters. It is made strong and can withstand a lot of abuse for years. The price of the various instrument are also very competitive. I strongly recommend the products to anyone.

Review Date: 30 Sept 2022 | Abdos

Code	Description	Product	No./case	Price/case (₹)
E11148	Premium Plus Starter Pack 01	Premium Plus Starter Pack 01, Includes: E11107 (0.5–10µl Pipette), E11109 (10–100µl Pipette), E11111 (200–1000µl Pipette), P10139 (0.1–10µl Gen2 Tip Box), P10140 (1–200µl Gen2 Tip Box), P10109 (100–1000µl Gen2 Tip Box), P70201 (5 Place Linear Pipette Stand), Pipette Bench-top Hangers, Abdos Biodegradable Pen & Pencil Set	1	17630
E11149	Premium Plus Starter Pack 02	Premium Plus Starter Pack 02, Includes: E11108 (2–20µl Pipette), E11110 (20–200µl Pipette), E11111 (200–1000µl Pipette), P10139 (0.1–10µl Gen2 Tip Box), P10140 (1–200µl Gen2 Tip Box), P10109 (100–1000µl Gen2 Tip Box), P70201 (5 Place Linear Pipette Stand), Pipette Bench-top Hangers, Abdos Biodegradable Pen & Pencil Set	1	17630
E11159	Elegant Starter Pack 01	Elegant Starter Pack 01, Includes: E11151 (0.5–10µl Pipette), E11153 (10–100µl Pipette), E11156 (100–1000µl Pipette), P10139 (0.1–10µl Gen2Tip Box), P10140 (1–200µl Gen2 Tip Box), P10109 (100–1000µl Gen2 Tip Box), P70201 (5 Place Linear Pipette Stand), Pipette Benchtop Hangers, Abdos Biodegradable Pen & Pencil Set	1	35100
E11160	Elegant Starter Pack 02	Elegant Starter Pack 02, Includes: E11152 (2–20µl Pipette), E11154 (20–200µl Pipette), E11156 (100–1000µl Pipette), P10139 (0.1–10µl Gen2 Tip Box), P10140 (1–200µl Gen2 Tip Box), P10109 (100–1000µl Gen2Tip Box), P70201 (5 Place Linear Pipette Stand), Pipette Benchtop Hangers, Abdos Biodegradable Pen & Pencil Set	1	35100



Code	Capacity	Test Volume	Maximum Permissible Systematic Error		Maximum Permissible Random Error		No./case	Price/case (₹)
			Inaccuracy	Inaccuracy	Imprecision	Imprecision		
E10001	5 µl	5 µl	± 1.3 %	± 0.065 µl	± 1.2 %	± 0.06 µl	1	3529
E10002	10 µl	10 µl	± 0.8 %	± 0.08 µl	± 0.8 %	± 0.08 µl	1	3529
E10003	20 µl	20 µl	± 0.6 %	± 0.12 µl	± 0.5 %	± 0.1 µl	1	3529
E10004	25 µl	25 µl	± 0.5 %	± 0.125 µl	± 0.3 %	± 0.075 µl	1	3529
E10005	50 µl	50 µl	± 0.5 %	± 0.25 µl	± 0.3 %	± 0.15 µl	1	3529
E10006	100 µl	100 µl	± 0.5 %	± 0.50 µl	± 0.3 %	± 0.30 µl	1	3529
E10007	200 µl	200 µl	± 0.4 %	± 0.80 µl	± 0.2 %	± 0.40 µl	1	3529
E10008	250 µl	250 µl	± 0.4 %	± 1 µl	± 0.2 %	± 0.50 µl	1	3529
E10009	500 µl	500 µl	± 0.3 %	± 1.5 µl	± 0.2 %	± 1.0 µl	1	3529
E10010	1000 µl	1000 µl	± 0.3 %	± 3 µl	± 0.2 %	± 2.0 µl	1	3529

# Premium Plus Multi Channel Pipettes

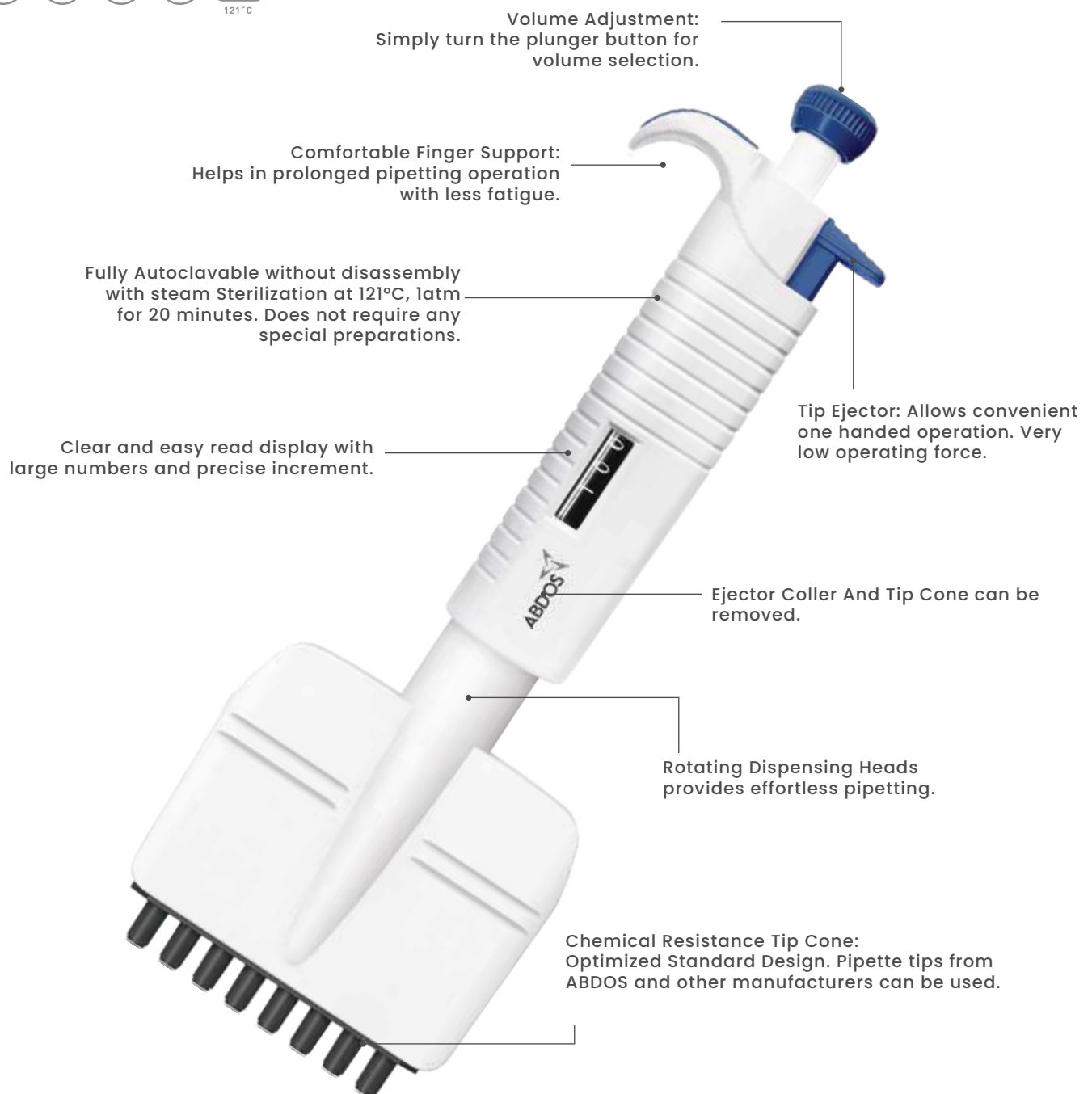
ABDOS Premium Plus Multi-Channel Pipette meets the highest needs in precision and accuracy – combined with ultimate ergonomics and increased flexibility with sophisticated blend of features and functionality.

These fully autoclavable 8-channel and 12-multichannel pipettes are available for Standard 96-well plates.

Individual piston and Tip cone assemblies allow easy repair and maintenance.

It is easy to calibrate and maintain with tools supplied. Calibrated in accordance with ISO8655. The quality control includes the gravimetric testing with distilled water at 22°C.

It is supplied with operator manual that provides complete information on recalibration and maintenance of the pipette.



## 38 PREMIUM PLUS 8-CHANNEL ADJUSTABLE MULTICHANNEL PIPETTE

- Abdos Premium Plus Multi-channel Pipettes have a unique ergonomic design for comfortable finger support and convenient tip ejector design allows one-handed operation.
- The dispensing head of these pipettes rotate for optimum pipetting.
- The special compound material tip cone design allows visual seal verification and has excellent chemical resistance.
- Individual piston and tip cone assemblies allow easy repair and maintenance.
- Volume settings can be clearly read through digital display.
- Abdos Premium Plus Multi-channel Pipettes are easy to calibrate and maintain with the tools supplied.
- These pipettes are designed to avoid repetitive strain injuries.
- All Abdos pipettes are supplied with operator manual that provides complete information on recalibration and maintenance of the pipettes.



Code	Capacity	Increment	Test Volume	Maximum Permissible Systematic Error		Maximum Permissible Random Error		No./case	Price/case (₹)
				Inaccuracy	Inaccuracy	Imprecision	Imprecision		
E11136	0.5 – 10 µl	0.1 µl	10 µl	± 1.50 %	± 0.15 µl	± 1.50 %	± 0.15 µl	1	26172
			5 µl	± 2.50 %	± 0.125 µl	± 2.50 %	± 0.125 µl		
			1 µl	± 4.00 %	± 0.04 µl	± 4.00 %	± 0.04 µl		
E11137	5 – 50 µl	0.5 µl	50 µl	± 1.00 %	± 0.50 µl	± 0.50 %	± 0.25 µl	1	26172
			25 µl	± 1.50 %	± 0.375 µl	± 1.00 %	± 0.25 µl		
			5 µl	± 3.00 %	± 0.15 µl	± 2.00 %	± 0.10 µl		
E11138	50 – 300 µl	5 µl	300 µl	± 0.70 %	± 2.10 µl	± 0.25 %	± 0.75 µl	1	26172
			150 µl	± 1.00 %	± 1.50 µl	± 0.50 %	± 0.75 µl		
			50 µl	± 1.50 %	± 0.75 µl	± 0.80 %	± 0.40 µl		

## 39 PREMIUM PLUS 12-CHANNEL ADJUSTABLE MULTICHANNEL PIPETTE



Code	Capacity	Increment	Test Volume	Maximum Permissible Systematic Error		Maximum Permissible Random Error		No./case	Price/case (₹)
				Inaccuracy	Inaccuracy	Imprecision	Imprecision		
E11139	0.5 – 10 µl	0.1 µl	10 µl	± 1.50 %	± 0.15 µl	± 1.50 %	± 0.15 µl	1	27958
			5 µl	± 2.50 %	± 0.125 µl	± 2.50 %	± 0.125 µl		
			1 µl	± 4.00 %	± 0.04 µl	± 4.00 %	± 0.04 µl		
E11140	5 – 50 µl	0.5 µl	50 µl	± 1.00 %	± 0.50 µl	± 0.50 %	± 0.25 µl	1	27958
			25 µl	± 1.50 %	± 0.375 µl	± 1.00 %	± 0.25 µl		
			5 µl	± 3.00 %	± 0.15 µl	± 2.00 %	± 0.10 µl		
E11141	50 – 300 µl	5 µl	300 µl	± 0.70 %	± 2.10 µl	± 0.25 %	± 0.75 µl	1	27958
			150 µl	± 1.00 %	± 1.50 µl	± 0.50 %	± 0.75 µl		
			50 µl	± 1.50 %	± 0.75 µl	± 0.80 %	± 0.40 µl		

## 40 PIPETTE RACK STAND, ACRYLIC

- Holds five Abdos standard size pipettes.
- Racks are mounted on their own stand.
- Keeps working area or desk free from clutter.



Code	No. of Places	L x W x H	No./case	Price/case (₹)
P70201	5	190 x 135 x 265 mm	1	3375



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## 41 PIPETTE RACK STAND (CAROUSAL TYPE), PP

- Holds six premium plus pipettes.
- The Carousel Stand rotates smoothly and comfortably.
- Keeps working area or desk free from clutter.



Code	No. of Places	No./case	Price/case (₹)
P70203	6	1	7870



## 42 PREMIUM ELECTRONIC PIPETTE

- Abdos Premium electronic pipette is fast, precise with an ergonomic design that is easy to use in laboratories.
- High accuracy, high performance stepper motor ensures accuracy and repeatability, eliminating manual pipetting errors. A motor driven digital control pipette with multi-function Pipetting, Mixing, Stepper and Dilution.
- 2 buttons handle all operational settings.
- Light weight, ergonomic design, small body dimension for easy handling that guarantees fatigue free pipetting.
- Adjustable speeds for aspiration and dispensing.
- Comprehensive range with easy programming.
- Motor driven with build-in-error control improving pipetting precision and providing reliable results.
- Highly efficient lithium-ion battery offering long running time with each charge makes the Premium Electronic Pipette a work-horse during busy times in the laboratories.
- Lower part is autoclavable.
- Reduces workload and improves the accuracy and precision.
- A bright LED display makes setting and reading easy, thus reducing or eliminating errors.
- User can Self-calibrate by limiting the pipette to a PC via USB connector.



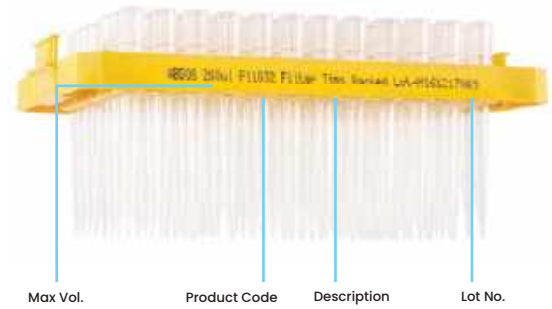
Code	Capacity	Increment	Test Volume	Inaccuracy	Inaccuracy	Imprecision	Imprecision	No./case	Price/case (₹)
E11161	0.5 - 10 µl	0.01 µl	10 µl	± 1.0 %	± 0.10 µl	0.05 *s.d µl	0.5 CV%	1	44613
			1 µl	± 3.5 %	± 0.035 µl	0.03 *s.d µl	3.0 CV%		
E11162	5 - 50 µl	0.1 µl	50 µl	± 0.8 %	± 0.40 µl	0.15 *s.d µl	0.3 CV %	1	44613
			5 µl	± 3.0 %	± 0.15 µl	0.125 *s.d µl	2.5 CV %		
E11163	30 - 300 µl	1 µl	300 µl	± 0.6 %	± 1.8 µl	0.6 *s.d µl	0.2 CV %	1	44613
			30 µl	± 3.0 %	± 0.9 µl	0.21 *s.d µl	0.7 CV %		
E11164	100 - 1000 µl	5 µl	1000 µl	± 0.6 %	± 6.0 µl	2.0 *s.d µl	0.2 CV %	1	44613
			100 µl	± 3.0 %	± 3.0 µl	0.6 *s.d µl	0.6 CV %		



## PIPETTE TIPS, PP

### WAFER VALUE ADDITIONS

Each wafer of the rack is printed with effective Volume Range and Lot Number with Product Code, making it easy to keep your work organized and ensure supplies are traceable.



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# Pipette Tips

All Tips are manufactured from ultra pure USP Class VI certified virgin polypropylene to ensure the highest quality & confirming to US FDA 21 CFR. Free from heavy metals, natural rubber & inhibitory plasticizers.

Free from Bacteriostatic & Fungistatic property.

Superior leeching performance in its class assures contamination free results.

DNase, RNase & Pyrogen free.

Precise Graduation mark for error free pipetting.

Tips with High clarity for better visibility of samples.

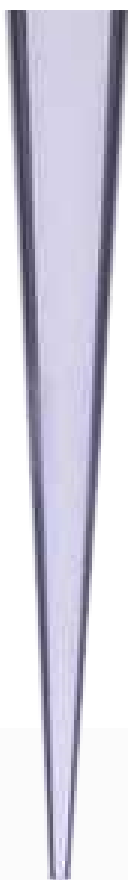
Diamond polished moulds for an extremely hydrophobic & smooth surface to ensure lowest retention in its class.





### ABDOS BEVELLED TIPS

Precise diamond polished with special treatment on bevelled orifice prevents smooth working & sample hold-up. Bevelled orifice prevents sample hang up and makes it easier to pipette-off the last drop of sample. Bevelled tips prevent accidental damage of gel rupture during loading. Perfect airlock grip on pipette by inner radial rings for accurate pipetting.



### THE ABDOS EDGE

The Universal Tip collar fits all popular pipettes.

The use of multiple cavity tools guarantees high conformity within one batch. The automated moulding and assembling procedures carried out under validated clean-room conditions to eliminate contamination.

Thin-wall technology ensures perfect seal while reducing the loading and ejection forces.



### ABDOS XTREME-POINT TIPS

Xtreme point orifice for precise work like gel loading & careful pipetting between space as small as 1 mm as in PAGE, AGE & IEF.

Ultra clear transparency for two phase pipetting.

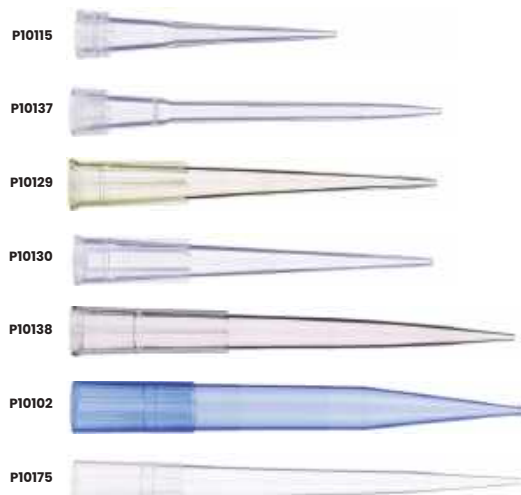


### 43 PIPETTE TIPS, BULK IN RESEALABLE BAGS, PP

- Bulk Micro Tips are offered in resealable zip lock bag.
- The micro Tips can be manually accumulated in empty boxes.
- The product is free from contamination and dust.
- Abdos polyethylene pouches are recyclable.



Code	Capacity	Colour	No./case	Price/case (₹)	Price/192 case (₹)
PI0115	0.1 – 10 µl (Graduated)	Natural	1000	576	103956
PI0137	0.1 – 10 µl Extended (Graduated)	Natural	1000	576	103956
PI0129	1 – 200 µl (Bevelled Graduated)	Yellow	1000	469	84645
PI0130	1 – 200 µl (Bevelled Graduated)	Natural	1000	469	84645
PI0101	1 – 200 µl (Xtreme Point Tip Orifice)	Yellow	1000	482	86991
PI0105	1 – 200 µl (Xtreme Point Tip Orifice)	Natural	1000	482	86991
PI0138	1 – 300 µl (Graduated)	Natural	1000	587	105941
PI0102	100 – 1000 µl (Graduated)	Blue	500	346	62446
PI0106	100 – 1000 µl (Graduated)	Natural	500	346	62446
PI0174	100 – 1000 µl XL (Graduated)	Natural	500	409	73816
PI0175	100 – 1250 µl (Graduated)	Natural	500	404	72914



### 44 PIPETTE TIPS, BULK IN SUSTAINABLE PACKS



- Bulk Micro Tips are offered in resealable zip lock bag.
- Each shipper case will contain 20 resealable zip lock bags without inner paper boxes.

Code	Capacity	Colour	No./case	Price/case (₹)
PI0123	0.1 – 10µl (Graduated)	Natural	20000	9200
PI0124	1 – 200 µl (Bevelled Graduated)	Yellow	20000	7500
PI0125	1 – 200 µl (Bevelled Graduated)	Natural	20000	7500
PI0126	100 – 1000µl (Graduated)	Blue	10000	5520
PI0127	100 – 1000µl (Graduated)	Natural	1000	5520

### 45 LARGE VOLUME PIPETTE TIPS, BULK IN RESEALABLE BAGS, PP

- The ergonomically optimized cone geometry provides the optimal pipette fit on the models from other manufacturers.
- Fine Graduations make visual checks of the pipetting volume even easier.



Code	Capacity	Colour	No./case	Price/case (₹)
PI0144	100 – 5000 µl (Graduated)	Natural	100	512
PI0145	500 – 10000 µl (Graduated)	Natural	100	1023



### 46 PURERIGHT™ PIPETTE TIPS, INDIVIDUALLY WRAPPED, STERILE, PP

- Individually wrapped pipette tips are manufactured as per the sterile purity level.
- Sterile individually wrapped tips have been validated according to ISO 11137 SAL 10<sup>-6</sup>.



Code	Capacity	Colour	No./case	Price/case (₹)
PI0164	0.1 – 10 µl (Graduated)	Natural	350	1207
PI0165	0.1 – 10 µl (Extended Graduated)	Natural	350	1207
PI0161	1 – 200 µl (Bevelled Graduated)	Natural	350	1207
PI0166	1 – 300 µl (Graduated)	Natural	350	1207
PI0163	100 – 1000 µl (Graduated)	Natural	350	1308
PI0167	100 – 1000 µl XL (Graduated)	Natural	100	402
PI0168	100 – 1250 µl (Graduated)	Natural	100	397
PI0169	100 – 5000 µl (Graduated)	Natural	60	938
PI0170	500 – 10000 µl (Graduated)	Natural	60	938



47 PIPETTE TIPS, GEN 2, RACKED, PP

- Gen 2 Racked Micro Tips are offered in prefilled racks that don't require manual accumulation in empty boxes.
- Polypropylene racks are very robust, sturdy with consistent and thick wall thickness.
- Gen 2 Racks are hinged with transparent lid & base providing excellent view inside the box.
- Gen 2 Racks are stackable. Reusable once empty.



Code	Capacity	Colour	No./case	Price/case (₹)
PI0116	0.1 – 10 µl (Graduated)	Natural	10 Racks x 96 pcs	2107
PI0139	0.1 – 10 µl Extended (Graduated)	Natural	10 Racks x 96 pcs	2107
PI0140	1 – 200 µl (Bevelled Graduated)	Yellow	10 Racks x 96 pcs	2146
PI0141	1 – 200 µl (Bevelled Graduated)	Natural	10 Racks x 96 pcs	2146
PI0107	1 – 200 µl (Xtreme Point Tip Orifice)	Yellow	10 Racks x 96 pcs	2210
PI0108	1 – 200 µl (Xtreme Point Tip Orifice)	Natural	10 Racks x 96 pcs	2210
PI0142	1 – 300 µl (Graduated)	Natural	10 Racks x 96 pcs	2146
PI0109	100 – 1000 µl (Graduated)	Blue	10 Racks x 96 pcs	2334
PI0110	100 – 1000 µl (Graduated)	Natural	10 Racks x 96 pcs	2334
PI0155	100 – 1000 µl XL (Graduated)	Natural	10 Racks x 96 pcs	2429
PI0157	100 – 1250 µl (Graduated)	Natural	10 Racks x 96 pcs	2517
PI0159	100 – 5000 µl (Graduated)	Natural	6 Racks x 24 pcs	2121
PI0160	500 – 10000 µl (Graduated)	Natural	6 Racks x 24 pcs	3175



48 PIPETTE TIPS, GEN 2, STERILE RACKED, PP



Code	Capacity	Colour	No./case	Price/case (₹)
PI0117	0.1 – 10 µl (Graduated)	Natural	10 Racks x 96 pcs	2592
PI0147	0.1 – 10 µl Extended (Graduated)	Natural	10 Racks x 96 pcs	2547
PI0148	1 – 200 µl (Bevelled Graduated)	Natural	10 Racks x 96 pcs	2581
PI0149	1 – 200 µl (Bevelled Graduated)	Yellow	10 Racks x 96 pcs	2581
PI0111	1 – 200 µl (Xtreme Point Tip Orifice)	Yellow	10 Racks x 96 pcs	2643
PI0112	1 – 200 µl (Xtreme Point Tip Orifice)	Natural	10 Racks x 96 pcs	2643
PI0150	1 – 300 µl (Graduated)	Natural	10 Racks x 96 pcs	2581
PI0113	100-1000 µl (Graduated)	Blue	10 Racks x 96 pcs	2865
PI0114	100 – 1000 µl (Graduated)	Natural	10 Racks x 96 pcs	2865
PI0156	100 – 1000 µl XL (Graduated)	Natural	10 Racks x 96 pcs	2823
PI0158	100 – 1250 µl (Graduated)	Natural	10 Racks x 96 pcs	2879
PI0171	100 – 5000 µl (Graduated)	Natural	6 Racks x 24 pcs	2370
PI0178	500 – 10000 µl (Graduated)	Natural	6 Racks x 24 pcs	3429



49 PIPETTE TIPS, REFILL PACK, PP

- Racked Micro Tips are offered in prefilled trays that can be directly loaded in the box.
- Easy to load and remove into boxes.
- Saves time and costs of manual accumulation in empty boxes.
- More Cost effective and economical than racked micro tips.
- Fits Perfectly onto Abdos Gen 2 Boxes.
- 12 x 8 Array to align the contents in the box.
- Can be autoclaved when racked.



Code	Capacity	Colour	No./case	Price/case (₹)
PI0118	0.1 – 10 µl (Graduated)	Natural	12 Refill Racks x 96 Pcs	1644
PI0152	1 – 200 µl (Bevelled Graduated)	Natural	10 Refill Racks x 96 Pcs	1435
PI0153	1 – 200 µl (Bevelled Graduated)	Yellow	10 Refill Racks x 96 Pcs	1435
PI0119	1 – 200 µl (Xtreme Point Tip Orifice)	Yellow	10 Refill Racks x 96 Pcs	1479
PI0120	1 – 200 µl (Xtreme Point Tip Orifice)	Natural	10 Refill Racks x 96 Pcs	1479
PI0154	1 – 300 µl (Graduated)	Natural	10 Refill Racks x 96 Pcs	1435
PI0176	100 – 1000 XL µl (Graduated)	Natural	6 Refill Racks x 96 Pcs	979
PI0177	100 – 1250 µl (Graduated)	Natural	6 Refill Racks x 96 Pcs	979



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# LAST DROP™ Low Retention Pipette Tips



The Retention level is 10 times lesser with viscous samples than standard pipette tips.

Super homogenous surface free sites prevent non-specific binding.

DNase, RNase and Pyrogen free.

Tips are also free from Bacteriostatic & Fungistatic property that gives tips a unique feature to work in microbiological lab.

Optimal surface for enhanced dispensing behaviour & minimal sample loss of highly viscous liquids or samples containing detergents.

The use of the latest injection moulding process produce high precision, thin wall tips with high clarity for better visibility of sample.

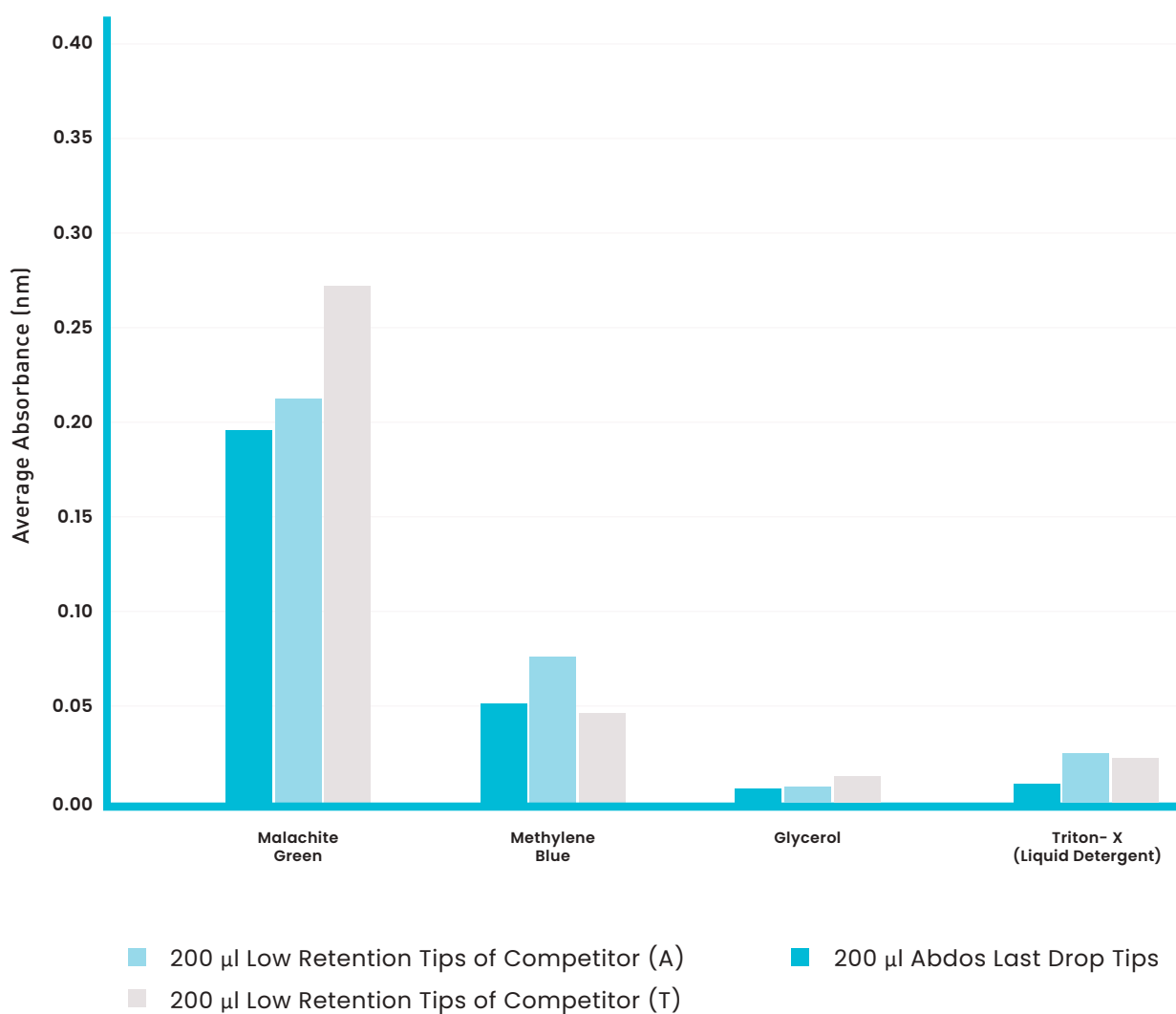
Reduce Sample retention for precision & to save on costly reagents.

All tips are manufactured from ultrapure USP Class VI certified, Virgin PP (Polypropylene) to ensure the highest quality. Free from heavy metals, natural rubber and inhibitory plasticizers.

## MATERIAL & METHOD

- 200µl Last Drop pipette tips were compared with other low retention tips in combination with an electronic pipette, were used to aspirate & dispense 100µl of Malachite Green, Methylene Blue, Glycerol & Triton-X (liquid detergent) at a constant pipetting speed.
- Residual in the pipette were washed out by repeated rinsing with 200µl water into cuvette and compared photometrically. The average values established are shown in the table.

## COMPARISON CHART



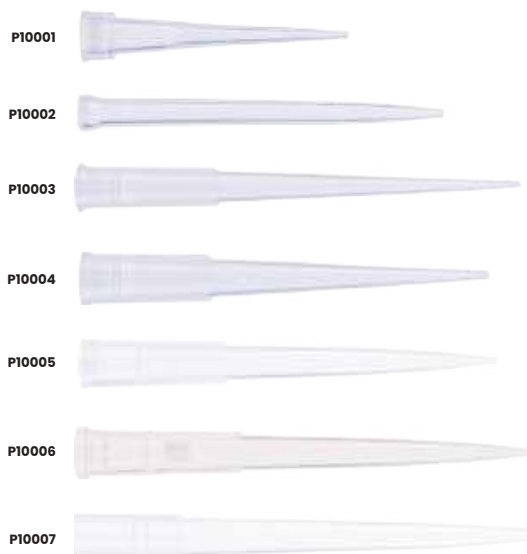
Result: Abdos Last Drop Pipette Tips clearly reduce sample loss. As seen above in the graph, it clearly indicates that Abdos Tips retained least amount of residue and saves on costly reagents.

## 50 LAST DROP™ LOW RETENTION PIPETTE TIPS, BULK IN RESEALABLE BAGS, PP

- Bulk Last Drop™ Micro Tips are offered in resealable zip lock bag.
- Tips can be manually accumulated in empty boxes.
- The product is free from contamination and dust.
- Abdos polyethylene pouches are recyclable.



Code	Capacity	Colour	No./case	Price/case (₹)
PI0001	0.1 – 10 µl (Graduated)	Natural	1000	997
PI0002	0.1 – 10 µl Extended (Graduated)	Natural	1000	997
PI0003	1 – 200 µl (Bevelled Graduated)	Natural	1000	1234
PI0004	1 – 200 µl (Xtreme Point Tip Orifice)	Natural	1000	1296
PI0005	1 – 300 µl (Graduated)	Natural	1000	1120
PI0006	100 – 1000 µl (Graduated)	Natural	500	772
PI0007	100 – 1000 µl XL (Graduated)	Natural	500	778
PI0008	100 – 1250 µl (Graduated)	Natural	500	772



## 51 PURERIGHT™ LAST DROP LOW RETENTION PIPETTE TIPS, INDIVIDUALLY WRAPPED, STERILE, PP

- Individually wrapped pipette tips are manufactured as per the sterile purity level
- Sterile individually wrapped tips have been validated according to ISO 11137 SAL 10<sup>-6</sup>



Code	Capacity	Colour	No./case	Price/case (₹)
PI0010	0.1 – 10 µl (Graduated)	Natural	350	1402
PI0011	0.1 – 10 µl Extended (Graduated)	Natural	350	1402
PI0012	1 – 200 µl (Bevelled Graduated)	Natural	350	1402
PI0013	1 – 300 µl (Graduated)	Natural	350	1402
PI0014	100 – 1000 µl (Graduated)	Natural	350	1611
PI0015	100 – 1000 µl XL (Graduated)	Natural	100	481
PI0016	100 – 1250 µl (Graduated)	Natural	100	475



## 52 LAST DROP™ LOW RETENTION PIPETTE TIPS, GEN 2, RACKED, PP

- Gen 2 Racked Last Drop™ Micro Tips are offered in prefilled racks that do not require manual accumulation in empty boxes.
- Polypropylene racks are very robust, sturdy with consistent and thick wall thickness.
- Can be used for repeat autoclaving.
- Gen 2 Racks are hinged with transparent lid & base providing excellent view inside the box.
- Gen 2 Racks are stackable and reusable once empty.



Code	Capacity	Colour	No./case	Price/case (₹)
PI0020	0.1 – 10 µl (Graduated)	Natural	10 Racks x 96 pcs	2864
PI0021	0.1 – 10 µl Extended (Graduated)	Natural	10 Racks x 96 pcs	2864
PI0022	1 – 200 µl (Bevelled Graduated)	Natural	10 Racks x 96 pcs	2921
PI0023	1 – 200 µl (Xtreme Point Tip Orifice)	Natural	10 Racks x 96 pcs	3017
PI0024	1 – 300 µl (Graduated)	Natural	10 Racks x 96 pcs	2921
PI0025	100-1000 µl (Graduated)	Natural	10 Racks x 96 pcs	3290
PI0026	100 – 1000 µl XL (Graduated)	Natural	10 Racks x 96 pcs	3304
PI0027	100 – 1250 µl (Graduated)	Natural	10 Racks x 96 pcs	3290



53 LAST DROP™ LOW RETENTION PIPETTE TIPS, GEN 2, STERILE RACKED, PP



Code	Capacity	Colour	No./case	Price/case (₹)
PI0040	0.1 – 10 µl (Graduated)	Natural	10 Racks x 96 pcs	3322
PI0041	0.1 – 10 µl Extended (Graduated)	Natural	10 Racks x 96 pcs	3322
PI0042	1 – 200 µl (Bevelled Graduated)	Natural	10 Racks x 96 pcs	3383
PI0043	1 – 200 µl (Xtreme Point Tip Orifice)	Natural	10 Racks x 96 pcs	3473
PI0044	1 – 300 µl (Graduated)	Natural	10 Racks x 96 pcs	3383
PI0045	100 – 1000 µl	Natural	10 Racks x 96 pcs	3886
PI0046	100 – 1000 µl XL (Graduated)	Natural	10 Racks x 96 pcs	3899
PI0047	100 – 1250 µl (Graduated)	Natural	10 Racks x 96 pcs	3886



54 LAST DROP™ LOW RETENTION PIPETTE TIPS, REFILL PACK, PP

- Racked Micro Tips are offered in prefilled trays that can be directly loaded in the box.
- Easy to load and remove into boxes.
- Saves time and costs of manual accumulation in empty boxes.
- Fits Perfectly onto Abdos Gen2 Boxes.
- 12 x 8 Array to align the contents in the box.
- Can be autoclaved when racked.



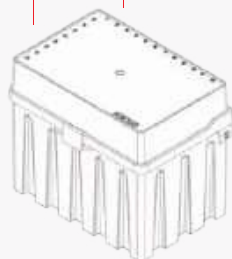
Code	Capacity	Colour	No./case	Price/case (₹)
PI0060	0.1 – 10 µl (Graduated)	Natural	12 Refill Racks x 96 pcs	2345
PI0061	1 – 200 µl (Bevelled Graduated)	Natural	10 Refill Racks x 96 pcs	1957
PI0062	1 – 200 µl (Xtreme Point Tip Orifice)	Natural	10 Refill Racks x 96 pcs	2036
PI0063	1 – 300 µl (Graduated)	Natural	10 Refill Racks x 96 pcs	1957
PI0064	100 – 1000 µl XL (Graduated)	Natural	6 Refill Racks x 96 pcs	2216
PI0065	100 – 1250 µl (Graduated)	Natural	6 Refill Racks x 96 pcs	2205



Abdos Life Science successfully filed **PATENT** in **Pipette Tip Box Category**

Anti-Warpage Technology offers strength & security at liquid handling

Transparent top cover & bottom provides an excellent view of the Micro Tips inside the box



Design with consistent wall thickness for repetitive use in single and multi-channel pipettes

Hinged lid provides fast, safe pipette tip access

Green Manufacturing & Reusable once empty, saves plastics



Anti-Warpage Technology



Anti-Shrink Technology



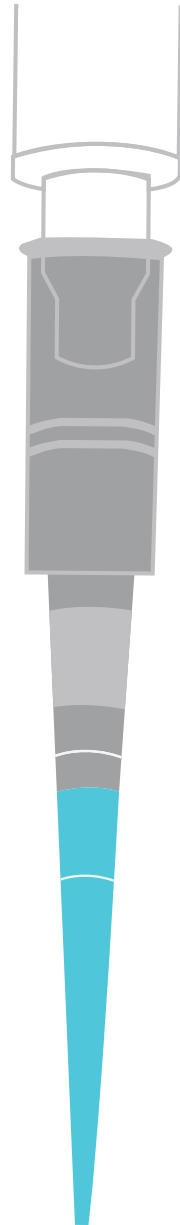
Robust Design & Strength

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# SUPER Filter Tips



Universal fit, leak proof fitment.

All Tips are manufactured from ultra pure USP Class VI certified virgin polypropylene to ensure the highest quality. Free from, heavy metals natural rubber & inhibitory plasticizers.

Superior leeching performance in its class assures contamination free results.

Precise safety gap between liquid & filter for electronic pipette and reverse pipetting.

5 Stage quality control procedures ensure 100% quality & performance. All Abdos Tips are DNase, RNase & Pyrogen free.

Proprietary polyethylene super filter provides aerosol and aqueous liquid by-pass prevention in over-pipetting hereby preventing cross contamination.

Hydrophobic filter that is additive free and does not absorb samples.

Precise graduation mark for error free pipetting.

Diamond polished moulds for an extremely hydrophobic & smooth surface to ensure lowest retention in its class.

The use of the latest injection moulding processes produces high precision thin wall tips with high clarity for better visibility of samples.

**Best Suited for Biological application.**

Abdos Filter is 100% pure porous PE. It makes Recovery of Samples from Wetted, Filtered without Contamination.

Non Cytotoxic (ISO 10993-5 MRM, Minimal Essential Media Elution, GLP Compliant).

**99.9% Bacterial Aerosol Filtration Efficiency (BFE), (ASTM F21012).**

Non Hemolytic (Modified ASTM F 756-08 Hemolysis Direct Contact GLP with Human Blood).

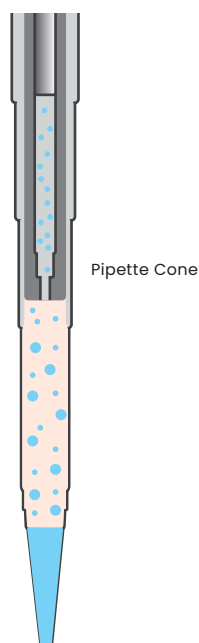
Inert, Hydrophobic Filter does not trap or block the liquid.

## ABDOS SUPER FILTER PREVENTS BOTH LIQUID & AEROSOL PASSING THROUGH THE FILTER

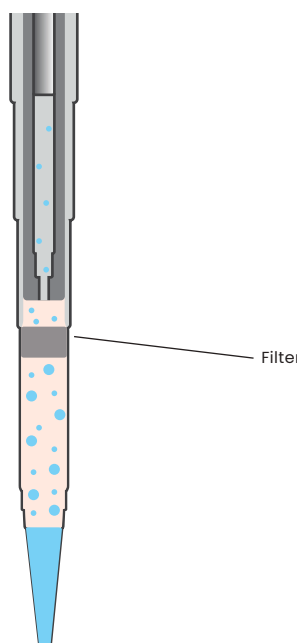
### Case Study:

Contamination is one of the major issue we faced while working in our labs. Majorly contamination is been carried out while pipetting the samples from one source to the other; therefore Abdos offers Super filter that prevents both Liquid & Aerosol passing through the filter, thus making pipette shaft contamination free.

Non filter  
Pipette Tips



Selective Barrier  
Pipette Tips



Abdos Super  
Filter Tip



May lead to contamination of the pipette as there is no barrier for Liquid or Aerosol to prevent entering into the shaft. Thus can affect the experiment & samples can be contaminated.

Most filter pipette tips do not act as a barrier to both liquid and Aerosol. The Pores of the filter act as a selective barrier thereby contaminating the pipette. While in other filter pipette tips, the liquid touches the filter, the filter becomes wet and locks. Hence, possibility of sample recovery is not possible.

Abdos Super filter prevents Aerosol passing through & aqueous liquid by-pass prevention in over-pipetting. Thus makes it unique in preventing the contamination.

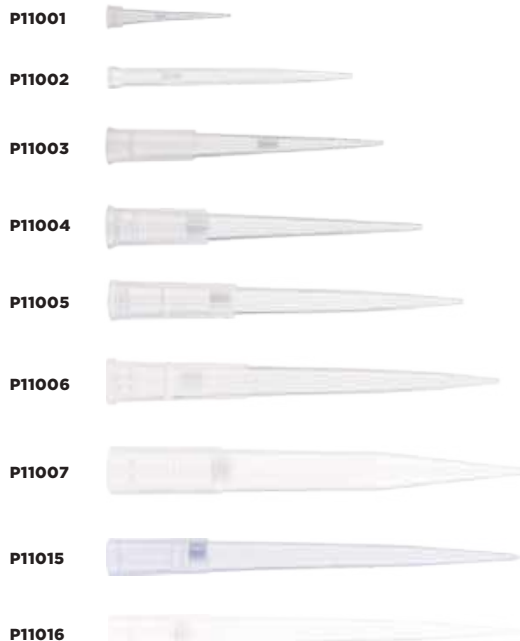
Proprietary Pure Porous Hydrophobic PE filter helps us to recover contamination free samples from wetted filter and does not trap or block the liquid into the filter.

## 55 FILTER PIPETTE TIPS, BULK IN RESEALABLE BAGS, PP

- Bulk Filter Pipette Tips are offered in resealable zip lock bag.
- Tips can be manually accumulated in empty boxes.
- The product is free from contamination and dust.
- Abdos polyethylene pouches are recyclable.



Code	Capacity	Colour	No./case	Price/case (₹)
P11001	0.1 - 10 µl (Graduated)	Natural	1000	2388
P11002	0.1 - 10 µl Extended (Graduated)	Natural	1000	2388
P11003	1 - 20 µl (Bevelled Graduated)	Natural	1000	2580
P11004	1 - 100 µl (Bevelled Graduated)	Natural	1000	2580
P11005	1 - 200 µl (Bevelled Graduated)	Natural	1000	2580
P11006	1 - 300 µl (Graduated)	Natural	1000	2580
P11007	100 - 1000 µl (Graduated)	Natural	500	1648
P11015	100 - 1000 µl XL (Graduated)	Natural	500	2102
P11016	100 - 1250 µl (Graduated)	Natural	500	2092



## 56 LARGE VOLUME FILTER PIPETTE TIPS, BULK IN RESEALABLE BAGS, PP

- The ergonomically optimized cone geometry provides the optimal pipette fit on the models from other manufacturers.
- Fine Graduations make visual checks of the pipetting volume even easier.



Code	Capacity	Colour	No./case	Price/case (₹)
P11017	100 - 5000 µl (Graduated)	Natural	100	1461
P11018	500 - 10000 µl (Graduated)	Natural	100	2006



## 57 PURERIGHT™ FILTER PIPETTE TIPS, INDIVIDUALLY WRAPPED, STERILE, PP

- PureRight™ Individually wrapped Filter Tips are offered in sealed proof packaging.
- These tips are gamma radiated.
- The product is free from contamination and dust.
- Every piece comes with infographics of Lot & Expiry details.
- Abdos polyethylene pouches are recyclable.



Code	Capacity	Colour	No./case	Price/case (₹)
P11008	0.1 - 10 µl (Graduated)	Natural	350	1792
P11009	0.1 - 10 µl Extended (Graduated)	Natural	350	1792
P11010	1 - 20 µl (Graduated)	Natural	350	1792
P11011	1 - 100 µl (Graduated)	Natural	350	1792
P11012	1 - 200 µl (Graduated)	Natural	350	1792
P11013	1 - 300 µl (Graduated)	Natural	350	1792
P11014	100 - 1000 µl (Graduated)	Natural	350	2139
P11019	100 - 1000 µl XL (Graduated)	Natural	100	637
P11049	100 - 1250 µl (Graduated)	Natural	100	637
P10099	100 - 5000 µl (Graduated)	Natural	60	1210
P10100	500 - 10000 µl (Graduated)	Natural	50	2106



## 58 FILTER PIPETTE TIPS – GEN 2, RACKED, PP

- Gen 2 Racked Filter Tips are offered in prefilled racks that do not require manual accumulation in empty boxes.
- Polypropylene racks are very robust, sturdy with consistent and thick wall thickness.
- Gen 2 Racks are hinged with transparent lid & base providing excellent view inside the box.
- Gen 2 Racks are stackable and reusable once empty.



Code	Capacity	Colour	No./case	Price/case (₹)
PII020	0.1 – 10 µl (Graduated)	Natural	10 Racks x 96 pcs	3996
PII022	0.1 – 10 µl Extended (Graduated)	Natural	10 Racks x 96 pcs	4104
PII024	1 – 20 µl (Bevelled Graduated)	Natural	10 Racks x 96 pcs	3996
PII026	1 – 50 µl (Bevelled Graduated)	Natural	10 Racks x 96 pcs	3996
PII028	1 – 100 µl (Bevelled Graduated)	Natural	10 Racks x 96 pcs	3996
PII032	1 – 200 µl (Bevelled Graduated)	Natural	10 Racks x 96 pcs	3996
PII034	1 – 300 µl (Graduated)	Natural	10 Racks x 96 pcs	3996
PII036	100 – 1000 µl (Graduated)	Natural	10 Racks x 96 pcs	4595
PII038	100 – 1000 µl XL (Graduated)	Natural	10 Racks x 96 pcs	4871
PII039	100 – 1250 µl (Graduated)	Natural	10 Racks x 96 pcs	4860
PII030	100 – 5000 µl (Graduated)	Natural	6 Racks x 24 pcs	2781
PII031	500 – 10000 µl (Graduated)	Natural	6 Racks x 24 pcs	4012



## 59 FILTER PIPETTE TIPS, STERILE GEN 2 RACKED, PP



Code	Capacity	Colour	No./case	Price/case (₹)	No./Bulk Case	Price/Bulk Case (₹)
PII021	0.1 – 10 µl (Graduated)	Natural	10 Racks x 96 pcs	4155	20	78116
PII023	0.1 – 10 µl Extended (Graduated)	Natural	10 Racks x 96 pcs	4266	20	80206
PII025	1 – 20 µl (Bevelled Graduated)	Natural	10 Racks x 96 pcs	4155	20	78116
PII027	1 – 50 µl (Bevelled Graduated)	Natural	10 Racks x 96 pcs	4155	20	78116
PII029	1 – 100 µl (Bevelled Graduated)	Natural	10 Racks x 96 pcs	4155	20	78116
PII033	1 – 200 µl (Bevelled Graduated)	Natural	10 Racks x 96 pcs	4155	20	78116
PII035	1 – 300 µl (Graduated)	Natural	10 Racks x 96 pcs	4155	20	78116
PII037	100 – 1000 µl (Graduated)	Natural	10 Racks x 96 pcs	4786	20	89980
PII047	100 – 1000 µl XL (Graduated)	Natural	10 Racks x 96 pcs	5120	20	96251
PII048	100 – 1250 µl (Graduated)	Natural	10 Racks x 96 pcs	5109	20	96046
PII072	100 – 5000 µl (Graduated)	Natural	6 Racks x 24 pcs	3025	20	56865
PII073	500 – 10000 µl (Graduated)	Natural	6 Racks x 24 pcs	4278	20	80431



Organization: NeoDx Biotech labs Pvt Ltd

Ease of Use ★★★★★

After Sales Service ★★★★★

Value for Money ★★★★★

“ Great results. Keep going.. Will always recommend Abdos ”

★★★★★ Average Rating 5.0

Application Area: Molecular Biology

We are using Abdos filter tips for past 2 years and just in one word its awesome. We are using wide range of filter tips from your side like 10ul,200ul,1000ul range and all of them are precise and accurate even 10ul filter are precise and we are using it for all our molecular biology works from past 2 years. Most valid reason to stay with Abdos is they never compromise with the quality and sterility of the product. Keep growing..

Review Date: 15 Dec 2022 | Abdos

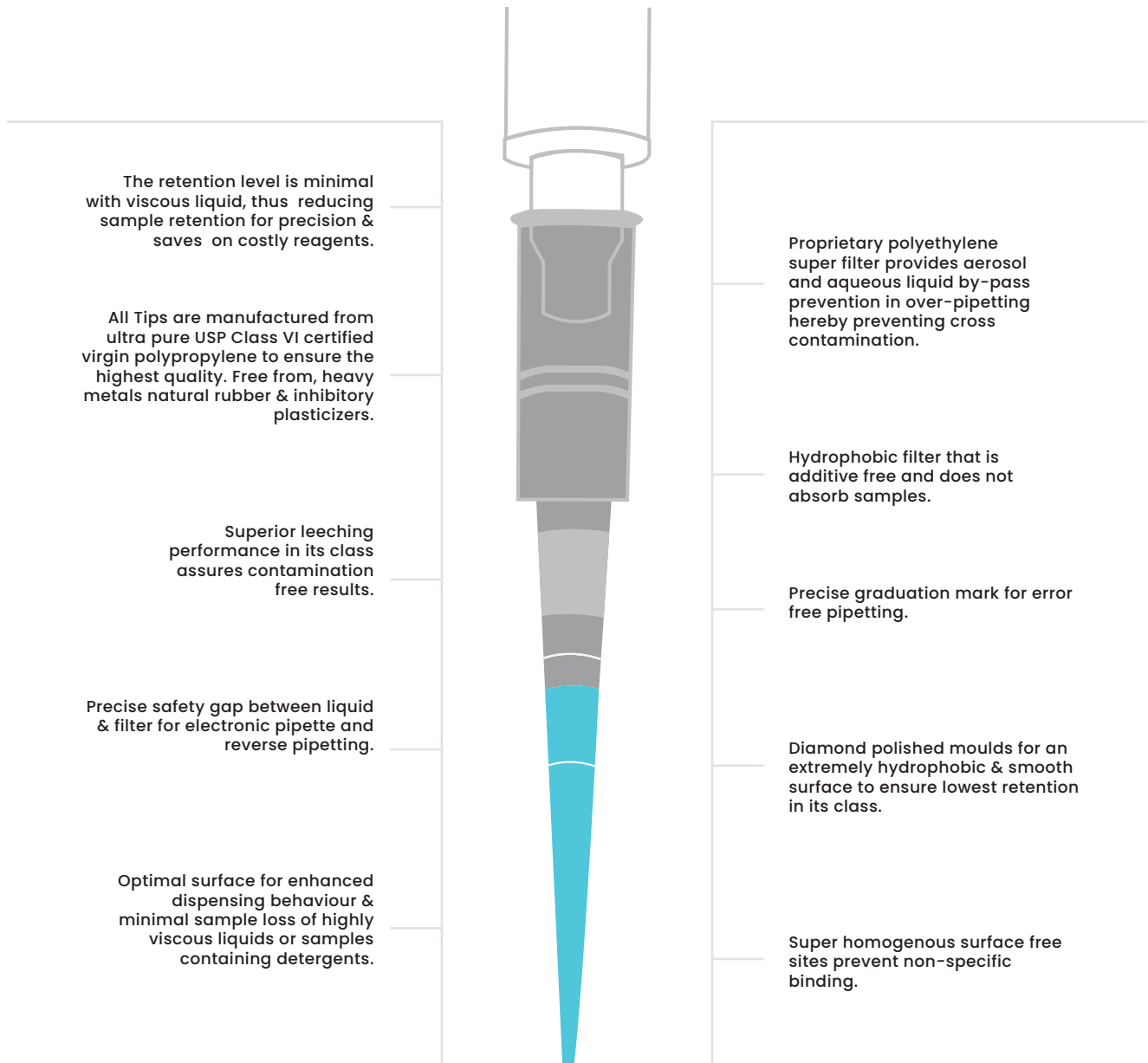
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59

# LAST DROP™ Filter Tips



The retention level is minimal with viscous liquid, thus reducing sample retention for precision & saves on costly reagents.

All Tips are manufactured from ultra pure USP Class VI certified virgin polypropylene to ensure the highest quality. Free from, heavy metals natural rubber & inhibitory plasticizers.

Superior leeching performance in its class assures contamination free results.

Precise safety gap between liquid & filter for electronic pipette and reverse pipetting.

Optimal surface for enhanced dispensing behaviour & minimal sample loss of highly viscous liquids or samples containing detergents.

Proprietary polyethylene super filter provides aerosol and aqueous liquid by-pass prevention in over-pipetting hereby preventing cross contamination.

Hydrophobic filter that is additive free and does not absorb samples.

Precise graduation mark for error free pipetting.

Diamond polished moulds for an extremely hydrophobic & smooth surface to ensure lowest retention in its class.

Super homogenous surface free sites prevent non-specific binding.

Best Suited for Biological application.

Abdos Filter is 100% pure porous PE. It makes Recovery of Samples from Wetted, Filtered without Contamination.

Non Cytotoxic (ISO 10993-5 MRM, Minimal Essential Media Elution, GLP Compliant).

99.9% Bacterial Aerosol Filtration Efficiency (BFE), (ASTM F21012).

Non Hemolytic (Modified ASTM F 756-08 Hemolysis Direct Contact GLP with Human Blood).

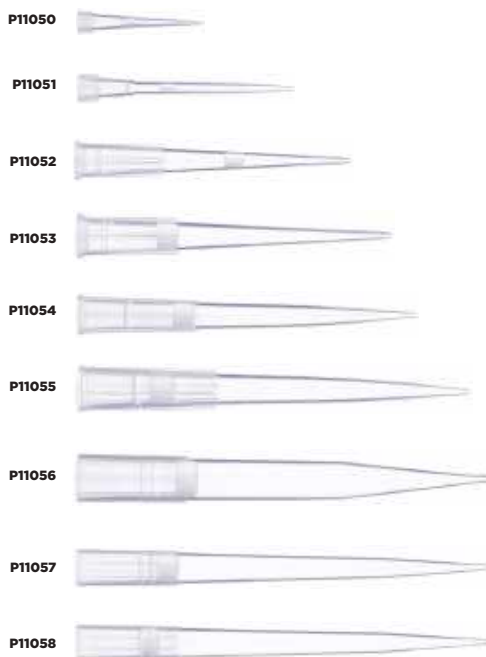
Inert, Hydrophobic Filter does not trap or block the liquid.

60 LAST DROP™, LOW RETENTION FILTER PIPETTE TIPS, BULK IN RESEALABLE BAGS, PP

- Bulk Last Drop™ Filter Tips are offered in resealable zip lock bag.
- The micro Tips can be manually accumulated in empty boxes.
- The product is free from contamination and dust.
- Abdos polyethylene pouches are recyclable.



Code	Capacity	Colour	No./case	Price/case (₹)
P11050	0.1 – 10 µl (Graduated)	Natural	1000	3099
P11051	0.1 – 10 µl (Extended Graduated)	Natural	1000	3210
P11052	1 – 20 µl (Bevelled Graduated)	Natural	1000	3316
P11053	1 – 100 µl (Bevelled Graduated)	Natural	1000	3316
P11054	1 – 200 µl (Bevelled Graduated)	Natural	1000	3316
P11055	1 – 300 µl (Graduated)	Natural	1000	3316
P11056	100–1000 µl (Graduated)	Natural	500	2018
P11057	100 – 1000 µl XL (Graduated)	Natural	500	2165
P11058	100 – 1250 µl (Graduated)	Natural	500	2154



61 PURERIGHT™ LAST DROP LOW RETENTION FILTER PIPETTE TIPS, INDIVIDUALLY WRAPPED, STERILE, PP

- Individually wrapped Filter Tips are offered in sealed proof packaging.
- These tips are gamma radiated.
- The product is free from contamination and dust.
- Every piece comes with infographics of Lot and Expiry details.
- Abdos polyethylene pouches are recyclable.



Code	Capacity	Colour	No./case	Price/case (₹)
P11040	0.1 – 10 µl (Graduated)	Natural	350	2227
P11041	0.1 – 10 µl Extended (Graduated)	Natural	350	2227
P11042	1 – 20 µl (Graduated)	Natural	350	2227
P11043	1 – 100 µl (Graduated)	Natural	350	2227
P11044	1 – 200 µl (Graduated)	Natural	350	2227
P11045	1 – 300 µl (Graduated)	Natural	350	2227
P11046	100 – 1000 µl (Graduated)	Natural	350	2659
P11070	100 – 1000 µl XL (Graduated)	Natural	100	805
P11071	100 – 1250 µl (Graduated)	Natural	100	799



Organization: Advanced Center for Human Genetics, Sher I Kashmir Institute of Medical Sciences Soura Srinagar 1

“ Good product for better, efficient and reproducible results in liquid handling ”

★★★★★ Average Rating 5.0

Ease of Use ★★★★★  
 After Sales Service ★★★★★  
 Value for Money ★★★★★

Application Area: Nucleic Acid Extraction and Protein production and purification  
 Good product for liquid handling especially with viscous liquids. Excellent for application that requires precision. Low retention significantly reduces pipetting errors and time, reduces sample loss and efficient sample disposal.

Review Date: 4 Jul 2023 | Abdos

62 LAST DROP™, LOW RETENTION FILTER PIPETTE TIPS – GEN 2 RACKED, PP

- Gen 2 Racked Last Drop™ Filter Tips are offered in prefilled racks that do not require manual accumulation in empty boxes.
- Polypropylene racks are very robust, sturdy with consistent and thick wall thickness.
- Gen 2 Racks are hinged with transparent lid & base providing excellent view inside the box.
- Gen 2 Racks are stackable. Reusable once empty.



Code	Capacity	Colour	No./case	Price/case (₹)
PII060	0.1 – 10 µl (Graduated)	Natural	10 Racks x 96 pcs	5130
PII062	0.1 – 10 µl Extended (Graduated)	Natural	10 Racks x 96 pcs	5238
PII064	1 – 20 µl (Bevelled Graduated)	Natural	10 Racks x 96 pcs	5130
PII066	1 – 50 µl (Bevelled Graduated)	Natural	10 Racks x 96 pcs	5130
PII068	1 – 100 µl (Bevelled Graduated)	Natural	10 Racks x 96 pcs	5130
PII072	1 – 200 µl (Bevelled Graduated)	Natural	10 Racks x 96 pcs	5130
PII074	1 – 300 µl (Graduated)	Natural	10 Racks x 96 pcs	5130
PII076	100-1000 µl (Graduated)	Natural	10 Racks x 96 pcs	5778
PII078	100 – 1000 µl (XL) (Graduated)	Natural	10 Racks x 96 pcs	6043
PII080	100 – 1250 µl (Graduated)	Natural	10 Racks x 96 pcs	6032



63 LAST DROP™, LOW RETENTION FILTER PIPETTE TIPS – STERILE GEN 2 RACKED, PP



Code	Capacity	Colour	No./case	Price/case (₹)	No./ Bulk Case	Price/Bulk case (₹)
PII061	0.1 – 10 µl (Graduated)	Natural	10 Racks x 96 pcs	5431	20	102112
PII063	0.1 – 10 µl Extended (Graduated)	Natural	10 Racks x 96 pcs	5544	20	104222
PII065	1 – 20 µl (Bevelled Graduated)	Natural	10 Racks x 96 pcs	5431	20	102112
PII067	1 – 50 µl (Bevelled Graduated)	Natural	10 Racks x 96 pcs	5431	20	102112
PII069	1 – 100 µl (Bevelled Graduated)	Natural	10 Racks x 96 pcs	5431	20	102112
PII073	1 – 200 µl (Bevelled Graduated)	Natural	10 Racks x 96 pcs	5431	20	102112
PII075	1 – 300 µl (Graduated)	Natural	10 Racks x 96 pcs	5431	20	102112
PII077	100-1000 µl (Graduated)	Natural	10 Racks x 96 pcs	6033	20	113423
PII079	100 – 1000 µl (XL) (Graduated)	Natural	10 Racks x 96 pcs	6824	20	128300
PII081	100 – 1250 µl (Graduated)	Natural	10 Racks x 96 pcs	6814	20	128095



“ Fits perfectly. good design. saves time. ”

Organization: Translational Health Science and Technology Institute

★ ★ ★ ★ ★ Average Rating 4.0

Ease of Use ★ ★ ★ ★ ★

Application Area: Neutralization assays

After Sales Service ★ ★ ★ ★ ★

Perfect tips for easy dispensing and visible volume measurements. fits in almost all the pipettes, and multichannel. I have used these tips in multichannel pipettes, for doing high-throughput assays. it was relatively easier to remove/insert tips when you continuously do a rigorous amount of work. thus, doesn't hurt my hands, and saves time. fits properly.

Value for Money ★ ★ ★ ★ ★

Review Date: 16 Dec 2022 | Abdos

## 64 EMPTY MICRO TIP GEN 2 BOXES, PP

- Abdos Micro Tip Gen 2 Boxes are robust with consistent wall thickness for repetitive use in single and multi channel pipette.
- Abdos Micro Tip Gen 2 Box can accommodate Abdos Micro Tips and the tip holding spaces are uniformly placed to facilitate easy use in multi channel pipette.
- These boxes are stackable.
- Transparent top cover provides an excellent view of the Micro Tips inside the box.
- Manufactured in high quality polypropylene.
- Can be autoclaved.



Code	Tip Capacity	Places	L x W x H	No./case	Price/case (₹)
P20101	0.1 – 10 µl	96	126 x 93 x 70 mm	6	1043
P20102	1 – 200 µl	96	127 x 93 x 70 mm	6	1043
P20104	1 – 300 µl	96	146 x 101 x 75 mm	6	1086
P20103	100 – 1000 µl	96	146 x 99 x 97 mm	6	1364
P20105	100 – 1000 µl (XL) / 1250 µl	96	146 x 99 x 120 mm	6	1384
P20106	1000 – 5000 µl	24	125 x 92 x 134 mm	6	3223
P20107	1000 – 10000 µl	24	125 x 92 x 172 mm	6	3223

## 65 REAGENT RESERVOIR, HIPS

- Unique “trough within a trough” maximizes reagent recovery.
- Convenient pour-off spouts on all four corners.
- A wide base provides stability and avoids spills.
- Graduated marks on inside wall.
- Superior design provides stronger sidewalls.
- 100ml reagent reservoir has capacity for extended multi-channel pipetting into microtiter plates.
- This design allows ample clearance for all types of pipettes.



Code	Capacity	No./case	Price/case (₹)
P10501	25 ml	10	1488
P10503	100 ml	10	1740



Organization: Delhi Pharmaceutical Sciences and Research University

Ease of Use ★★★★★  
 After Sales Service ★★★★★  
 Value for Money ★★★★★

“ fantastic instrument and very useful ”

★★★★★ Average Rating 5.0

Application Area: Analyze metabolites in sample

it is 100% pure and provides protection against aerosols and biomolecules. Filter Tips are provided in prefilled racks so that manual collection in bare boxes is not required. it's very nice, easy and affordable. They also protect the pipette shafts from contamination and reduce the risk of cross-contamination.

Review Date: 15 Dec 2022 | Abdos



Scan to watch product video.

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# ABDOS TIPS & LAST DROP PIPETTE TIPS

## COMPATIBILITY CHART

Pipettor Brand/ Make			Elegant Pipettes								
			Single channel								
Abdos Code for Filter Pipette Tips	Abdos Code for Last Drop Filter Pipette Tips	Volume	0.1-2.5ul	0.5-10ul	2-20ul	10-100ul	20-200ul	30-300ul	100-1000ul	1000-5000ul	2000-10000ul
P10115	P10001	0.1-10ul	✓	✓							
P10137	P10002	0.1-10ul	✓	✓							
P10129		1-200ul			✓	✓	✓				
P10130	P10003	1-200ul			✓	✓	✓				
P10101		1-200ul			✓	✓	✓				
P10105	P10004	1-200ul			✓	✓	✓				
P10138	P10005	1-300ul			✓	✓	✓	✓			
P10102		100-1000ul							✓		
P10106	P10006	100-1000ul							✓		
P10174	P10007	100-1000ul							✓		
P10175	P10008	100-1250ul							✓		
P10144		1-5ml								✓	✓
P10145		1-10ml								✓	✓

Pipettor Brand / Make			Abdos Premium (Single Channel)					Abdos Premium Plus (Single Channel)					Abdos Fixed (Single Channel)					Abdos Premium (Multi Channel)			Abdos Premium Plus (Multi Channel)							
			0.5 - 10 µl	2-20 µl	10-100 µl	20-200µl	100-1000 µl	0.5 - 10 µl	2-20 µl	10-100 µl	20-200 µl	100-1000 µl	5 µl	10 µl	20 µl	25 µl	50 µl	100 µl	200 µl	250 µl	500 µl	1000 µl	0.5 - 10 µl	5 - 50 µl	50-300 µl	0.5 - 10 µl	5 - 50 µl	50-300 µl
Abdos Code for Pipette Tips	Abdos Code for Last Drop Pipette Tips	Volume																										
P10115	P10001	0.1 - 10 µl	✓				✓				✓	✓									✓			✓				
P10137	P10002	0.1 - 10 µl	✓				✓				✓	✓									✓			✓				
P10129	-	1 - 200 µl		✓	✓	✓		✓	✓	✓			✓	✓	✓	✓	✓	✓	✓				✓	✓		✓	✓	
P10130	P10003	1 - 200 µl		✓	✓	✓		✓	✓	✓			✓	✓	✓	✓	✓	✓	✓				✓	✓		✓	✓	
P10101	-	1 - 200 µl		✓	✓	✓		✓	✓	✓			✓	✓	✓	✓	✓	✓	✓				✓	✓		✓	✓	
P10105	P10004	1 - 200 µl		✓	✓	✓		✓	✓	✓			✓	✓	✓	✓	✓	✓	✓				✓	✓		✓	✓	
P10138	P10005	1 - 300 µl		✓	✓	✓		✓	✓	✓			✓	✓	✓	✓	✓	✓	✓				✓	✓		✓	✓	
P10102	-	100 - 1000 µl				✓				✓										✓	✓							
P10106	P10006	100 - 1000 µl				✓				✓										✓	✓							

Pipettor Brand/ Make			Biohit eLine (Single channel)				Biohit eLine (multi channel)				Biohit m- Line® (Single channel)				Biohit m-Line® (multi channel)				Biohit Proline (Single channel)				Biohit Proline (Multi channel)				Biohit ePet (Single channel)			
			0.2-10µl	5-120µl	10-300µl	50-1000µl	0.2-10µl	5-120µl	10-300µl	0.5-10µl	2-20µl	10-100µl	20-200µl	100-1000µl	0.5-10µl	5-100µl	30-300µl	0.2-10µl	5-100µl	10-250µl	10-500µl	50-1000µl	0.2-10µl	5-100µl	25-250µl	0.2-10µl	5-100µl	50-1200µl		
Abdos Code for Pipette Tips	Abdos Code for Last Drop Pipette Tips	Volume																												
P10115	P10001	0.1 - 10 µl	✓				✓			✓			✓								✓			✓						
P10137	P10002	0.1 - 10 µl	✓				✓			✓			✓								✓			✓						
P10129	-	1 - 200 µl		✓						✓	✓			✓			✓						✓			✓				
P10130	P10003	1 - 200 µl		✓						✓	✓			✓			✓						✓			✓				
P10101	-	1 - 200 µl		✓						✓	✓			✓			✓						✓			✓				
P10105	P10004	1 - 200 µl		✓						✓	✓			✓			✓						✓			✓				
P10138	P10005	1 - 300 µl		✓	✓			✓		✓	✓			✓	✓		✓	✓					✓	✓		✓				
P10102	-	100 - 1000 µl				✓						✓									✓									
P10106	P10006	100 - 1000 µl				✓						✓									✓									

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Pipettor Brand/ Make			Brand Transferpette												Brand Electronics												
			Single Channel						Multi Channel						Single Channel			Multi Channel									
Abdos Code for Pipette Tips	Abdos Code for Last Drop Pipette Tips	Volume	0.1-1µl	0.5-10µl	2-20µl 'ULTRA MICRO'	2-20µl	5-50µl	10-100µl	20-200µl	25-250µl	100-1000µl	0.5-10µl	2-20µl	2.5-25µl	5-50µl	10-100µl	20-200µl	0.5-10µl	10-100µl	20-200µl	30-300µl	100-1000µl	0.5-10µl	5-100µl	10-200µl	15-300µl	
P10115	P10001	0.1 - 10 µl		✓								✓						✓					✓				
P10137	P10002	0.1 - 10 µl		✓								✓						✓					✓				
P10129	-	1 - 200 µl					✓	✓	✓						✓	✓	✓		✓	✓					✓	✓	
P10130	P10003	1 - 200 µl					✓	✓	✓						✓	✓	✓		✓	✓					✓	✓	
P10101	-	1 - 200 µl					✓	✓	✓						✓	✓	✓		✓	✓					✓	✓	
P10105	P10004	1 - 200 µl					✓	✓	✓						✓	✓	✓		✓	✓					✓	✓	
P10138	P10005	1 - 300 µl					✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓				✓	✓	✓
P10102	-	100 - 1000 µl									✓												✓				
P10106	P10006	100 - 1000 µl									✓												✓				

Pipettor Brand/ Make			Brand Transferpette S							Capp Aero					Gilson Pipetman					Gilson Pipetman Ultra								
			Single Channel				Multi Channel			Single Channel /Multi Channel					Single Channel					Multi Channel								
Abdos Code for Pipette Tips	Abdos Code for Last Drop Pipette Tips	Volume	0.1-1µl	0.5-10µl	2-20µl 'ULTRA MICRO'	10-100µl	20-200µl	100-1000µl	0.5-10µl	10-100µl	20-200µl	30-300µl	0.2-2µl	0.5-10µl	5-50µl	10-100µl	25-200µl	50-300µl	100-1000µl	0.2-2µl	1-10µl	2-20µl	20-100µl	50-200µl	200-1000µl	1-20µl	20-300µl	
P10115	P10001	0.1 - 10 µl	✓						✓				✓	✓						✓	✓							
P10137	P10002	0.1 - 10 µl	✓						✓				✓	✓						✓	✓							
P10129	-	1 - 200 µl				✓	✓			✓	✓					✓	✓						✓	✓				
P10130	P10003	1 - 200 µl				✓	✓			✓	✓					✓	✓						✓	✓				
P10101	-	1 - 200 µl				✓	✓			✓	✓					✓	✓						✓	✓				
P10105	P10004	1 - 200 µl				✓	✓			✓	✓					✓	✓						✓	✓				
P10138	P10005	1 - 300 µl				✓	✓			✓	✓	✓				✓	✓	✓					✓	✓			✓	
P10102	-	100 - 1000 µl						✓											✓						✓			
P10106	P10006	100 - 1000 µl						✓											✓						✓			

Pipettor Brand/ Make			Gilson Pipetman Ultra					Gilson Concept			Gilson Concept			Gilson Neo				
			Single Channel					Single Channel			Multi Channel			Single Channel				
Abdos Code for Pipette Tips	Abdos Code for Last Drop Pipette Tips	Volume	0.2-2µl	1-10µl	2-20µl	20-100µl	20-200µl	200-1000µl	0.5-10µl	5-100µl	20-300µl	1-10µl	10-100µl	30-300µl	0.2-2µl	1-10µl	20-100µl	100-1000µl
P10115	P10001	0.1 - 10 µl		✓					✓			✓						
P10137	P10002	0.1 - 10 µl		✓					✓			✓						
P10129	-	1 - 200 µl				✓	✓			✓			✓					✓
P10130	P10003	1 - 200 µl				✓	✓			✓			✓					✓
P10101	-	1 - 200 µl				✓	✓			✓			✓					✓
P10105	P10004	1 - 200 µl				✓	✓			✓			✓					✓
P10138	P10005	1 - 300 µl				✓	✓			✓	✓		✓	✓				✓
P10102	-	100 - 1000 µl						✓										✓
P10106	P10006	100 - 1000 µl						✓										✓

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Pipettor Brand/ Make			Vistalab Ovation QS					Vistalab Ovation M					Vistalab Ovation E				Eppendorf Reference				"Eppendorf Electronic"								
			Single Channel					Single Channel					Multi Channel				Single Channel												
Abdos Code for Pipette Tips	Abdos Code for Last Drop Pipette Tips	Volume	0.2-2µL	1-10µL	2-20µL	10-100µL	20-200µL	100-1000µL	0.2-2µL	1-10µL	2-20µL	10-100µL	20-200µL	100-1000µL	0.5-20µL	5-250µL	2-125µL	25-1250µL	0.1-10µL	"0.1-10µL ULTRA MICRO"	2-20µL	10-100µL	20-200µL	100-1000µL	0.5-10µL	5-100µL	2-200µL	50-1000µL	
P10115	P10001	0.1 - 10 µl	✓	✓	✓				✓	✓	✓				✓				✓		✓								
P10137	P10002	0.1 - 10 µl	✓	✓	✓				✓	✓	✓				✓				✓		✓								
P10129	-	1 - 200 µl				✓	✓				✓	✓			✓	✓						✓	✓			✓	✓		
P10101	-	1 - 200 µl				✓	✓				✓	✓			✓	✓						✓	✓			✓	✓		
P10105	P10004	1 - 200 µl				✓	✓				✓	✓			✓	✓						✓	✓			✓	✓		
P10138	P10005	1 - 300 µl				✓	✓				✓	✓			✓	✓						✓	✓			✓	✓		
P10102	-	100 - 1000 µl						✓										✓							✓				✓
P10106	P10006	100 - 1000 µl						✓										✓							✓				✓

Pipettor Brand/ Make			Eppendorf Research						"Eppendorf "					"Thermo Finnpipette"				"Thermo Finnpipette"			"Matrix Impact/Impact2"								
			Single Channel						Multi Channel					Single Channel				Multi Channel			s /mc								
Abdos Code for Pipette Tips	Abdos Code for Last Drop Pipette Tips	Volume	0.1-2.5µl	0.5-10µl	2-20µl	10-100µl	20-200µl	100-1000µl	0.5-10µl	5-100µl	50-100µl	0-300µl	30-300µl	50-1200µl	0.2-10µl	0.5-10µl	5-40µl	40-200µl	100-1000µl	200-1000µl	0.1-10µl	10-100µl	30-300µl	2-125µl	2-20µl	15-1250µl			
P10115	P10001	0.1 - 10 µl		✓	✓				✓						✓	✓						✓							
P10137	P10002	0.1 - 10 µl		✓	✓				✓						✓	✓						✓							
P10129	-	1 - 200 µl				✓	✓			✓	✓						✓					✓			✓				
P10101	-	1 - 200 µl				✓	✓			✓	✓						✓					✓			✓				
P10105	P10004	1 - 200 µl				✓	✓			✓	✓						✓					✓			✓				
P10138	P10005	1 - 300 µl				✓	✓			✓	✓	✓	✓				✓					✓	✓		✓				
P10102	-	100 - 1000 µl						✓						✓*						✓	✓								
P10106	P10006	100 - 1000 µl						✓						✓*						✓	✓								

Pipettor Brand/ Make			Labnet Labpette					Labnet Labpette				Labnet BioPette E				"Nichiryo / Oxford Benchmate"												
			Single Channel					Multi Channel				Single Channel				Multi Channel				Single Channel & Multi Channel								
Abdos Code for Pipette Tips	Abdos Code for Last Drop Pipette Tips	Volume	0.1-2µl	0.5-10µl	2-20µl	10-100µl	20-200µl	100-1000µl	1-10µl	5-50µl	20-200µl	50-300µl	0.5-10µl	2-20µl	10-200µl	100-1000µl	0.5-10µl	2-20µl	10-200µl	100-1000µl	0.5-10µl	2-20µl	10-50µl	10-100µl	20-200µl	100-1000µl		
P10115	P10001	0.1 - 10 µl	✓	✓					✓				✓				✓				✓							
P10137	P10002	0.1 - 10 µl	✓	✓					✓				✓				✓				✓							
P10129	-	1 - 200 µl				✓	✓				✓			✓					✓					✓	✓			
P10101	-	1 - 200 µl				✓	✓				✓			✓					✓					✓	✓			
P10105	P10004	1 - 200 µl				✓	✓				✓	✓		✓					✓					✓	✓			
P10138	P10005	1 - 300 µl				✓	✓				✓	✓		✓					✓					✓	✓			
P10102	-	100 - 1000 µl						✓							✓						✓							
P10106	P10006	100 - 1000 µl						✓							✓						✓							

Pipettor Brand/ Make			Socorex Calibra /Accura								Oxygen Axypet																	
			Single Channel				Multi Channel				Single Channel				Multi Channel													
Abdos Code for Pipette Tips	Abdos Code for Last Drop Pipette Tips	Volume	0.1-20µl	0.2-20µl	0.5-10µl	1-10µl	2-20µl	10-100µl	20-200µl	100-1000µl	1-10µl	5-50µl	10-100µl	20-200µl	50-200µl	0.1-2µl	0.5-10µl	2-20µl	5-50µl	10-100µl	20-200µl	50-250µl	100-1000µl	1-10µl	5-50µl	20-200µl	50-300µl	
P10115	P10001	0.1 - 10 µl			✓	✓					✓						✓							✓				
P10137	P10002	0.1 - 10 µl			✓	✓					✓						✓							✓				
P10129	-	1 - 200 µl						✓	✓			✓	✓	✓	✓					✓	✓	✓				✓	✓	✓
P10130	P10003	1 - 200 µl						✓	✓			✓	✓	✓	✓					✓	✓	✓				✓	✓	✓
P10101	-	1 - 200 µl						✓	✓			✓	✓	✓	✓					✓	✓	✓				✓	✓	✓
P10105	P10004	1 - 200 µl						✓	✓			✓	✓	✓	✓					✓	✓	✓				✓	✓	✓
P10138	P10005	1 - 300 µl						✓	✓			✓	✓	✓	✓					✓	✓	✓	✓			✓	✓	✓
P10102	-	100 - 1000 µl								✓														✓				
P10106	P10006	100 - 1000 µl								✓														✓				

Pipettor Brand/ Make		BRAND		Eppendorf		Biohit Proline plus		Gilson		Thermo		Abdos	
Abdos Code for Pipette Tips	Volume	1-5 ml	1-10 ml	1-5 ml	1-10 ml	1-5 ml	1-10 ml	1-5 ml	1-10 ml	1-5 ml	1-10 ml	1-5 ml	1-10 ml
P10144	1 - 5 ml			✓		✓		✓				✓	
P10145	1 - 10 ml		✓		✓		✓		✓				✓

Pipettor Brand/ Make			Abdos premium	Abdos premium Plus	ABDOS D. Pipette (Electronic)	Brand Transferpette S	Gilson Pipetman	Eppendorf Research
			Single channel			Single channel		
Abdos Code for Pipette Tips	Abdos Code for Last Drop Pipette Tips	Volume	100-1000µl	100-1000µl	100-1000µl	100-1000µl	100-1000µl	100-1000µl
P10174	P10026	100 - 1000 µl	✓	✓	✓	✓	✓	✓
P10175	P10027	100 - 1250 µl	✓	✓	✓	✓	✓	✓

Pipettor Brand/ Make			THERMO (Electronic) Finnpipette	Thermo Finnpipette F3	Nichiryo NICHIPET EX	SOCOREX ACURA 825	BIOHIT Proline	ErgoOne Star Lab
			Multi channel	Single channel				
Abdos Code for Pipette Tips	Abdos Code for Last Drop Pipette Tips	Volume	100-1200µl	100-1000µl	100-1000µl	100-1000µl	100-1000µl	100-1000µl
P10174	P10026	100 - 1000 µl	✓	✓	✓	✓	✓	✓
P10175	P10027	100 - 1250 µl	✓	✓	✓	✓	✓	✓

# ABDOS FILTER TIPS & LAST DROP FILTER PIPETTE TIPS

## COMPATIBILITY CHART

Pipettor Brand/ Make			Elegant Pipettes								
			Single channel								
Abdos Code for Filter Pipette Tips	Abdos Code for Last Drop Filter Pipette Tips	Volume	0.1-2.5ul	0.5-10ul	2-20ul	10-100ul	20-200ul	30-300ul	100-1000ul	1000-5000ul	2000-10000ul
P11001	P11050	0.1-10ul	✓	✓							
P11002	P11051	0.1-10ul	✓	✓							
P11003	P11052	1-20ul			✓	✓	✓				
P11026	P11066	1-50ul				✓	✓				
P11004	P11053	1-100ul				✓	✓				
P11005	P11054	1-200ul				✓	✓				
P11006	P110055	1-300ul					✓	✓			
P11007	P11056	100-1000ul							✓		
P11015	P11057	100-1000ul							✓		
P11016	P11058	100-1250ul							✓		
P11017		100-5000ul								✓	✓
P11018		500-10000ul								✓	✓

Pipettor Brand/ Make			Abdos Premium (Single Channel)					Abdos Premium Plus (Single Channel)					Abdos Fixed (Single Channel)					Abdos Premium (Multi Channel)			Abdos Premium Plus (Multi Channel)						
			0.5 - 10 µl	2-20 µl	10-100 µl	20-200µl	100-1000 µl	0.5 - 10 µl	2-20 µl	10-100 µl	20-200 µl	100-1000 µl	5 µl	10 µl	20 µl	25 µl	50 µl	100 µl	200 µl	250 µl	500 µl	1000 µl	0.5 - 10 µl	5 - 50 µl	50-300 µl	0.5 - 10 µl	5 - 50 µl
P11001	P11050	0.1 - 10 µl	✓				✓				✓	✓										✓			✓		
P11002	P11051	0.1 - 10 µl	✓				✓				✓	✓										✓			✓		
P11003	P11052	1 - 20 µl		✓	✓	✓		✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓	✓
P11026	P11066	1 - 50 µl		✓	✓	✓		✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓	✓
P11004	P11053	1 - 100 µl		✓	✓	✓		✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓	✓
P11005	P11054	1 - 200 µl		✓	✓	✓		✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓	✓
P11006	P11055	1 - 300 µl		✓	✓	✓		✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓	✓
P11007	P11056	100 - 1000 µl					✓				✓									✓	✓						

Pipettor Brand / Make			Biohit eLine (Single Channel)				Biohit eLine (Multi Channel)		Biohit m- Line® (Single channel)				Biohit m-Line® (Multi Channel)		Biohit Proline (Single Channel)				Biohit Proline (Multi Channel)		Biohit ePet (Single Channel)					
			0.2-10µl	5-120µl	10-300µl	50-1000µl	0.2-10µl	5-120µl	10-300µl	0.5-10µl	2-20µl	10-100µl	20-200µl	100-1000µl	0.5-10µl	5-100µl	30-300µl	0.2-10µl	5-100µl	10-250µl	10-500µl	50-1000µl	0.2-10µl	5-100µl	25-250µl	0.2-10µl
P11001	P11050	0.1 - 10 µl	✓				✓		✓				✓			✓					✓			✓		
P11002	P11051	0.1 - 10 µl	✓				✓		✓				✓			✓					✓			✓		
P11003	P11052	1 - 20 µl		✓						✓	✓			✓			✓						✓			✓
P11026	P11066	1 - 50 µl		✓						✓	✓			✓			✓						✓			✓
P11004	P11053	1 - 100 µl		✓						✓	✓			✓			✓						✓			✓
P11005	P11054	1 - 200 µl		✓						✓	✓			✓			✓						✓			✓
P11006	P11055	1 - 300 µl		✓	✓			✓		✓	✓			✓	✓		✓	✓					✓	✓		✓
P11007	P11056	100 - 1000 µl					✓					✓									✓					

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Pipettor Brand/ Make			Brand Transferpette													Brand Electronics												
			Single Channel							Multi Channel						Single Channel			Multi Channel									
Abdos Code for Filter Pipette Tips	Abdos Code for Last Drop Filter Pipette Tips	Volume	0.1-1µl	0.5-10µl	2-20µl 'ULTRAMICRO'	2-20µl	5-50µl	10-100µl	20-200µl	25-250µl	100-1000µl	0.5-10µl	2-20µl	2.5-25µl	5-50µl	10-100µl	20-200µl	30-300µl	0.5-10µl	10-100µl	20-200µl	30-300µl	100-1000µl	0.5-10µl	5-100µl	10-200µl	15-300µl	
P11001	P11050	0.1 - 10 µl	✓									✓							✓						✓			
P11002	P11051	0.1 - 10 µl	✓									✓							✓						✓			
P11003	P11052	1 - 20 µl					✓	✓	✓						✓	✓	✓			✓	✓					✓	✓	
P11026	P11066	1 - 50 µl					✓	✓	✓						✓	✓	✓			✓	✓					✓	✓	
P11004	P11053	1 - 100 µl					✓	✓	✓						✓	✓	✓			✓	✓					✓	✓	
P11005	P11054	1 - 200 µl					✓	✓	✓						✓	✓	✓			✓	✓					✓	✓	
P11006	P11055	1 - 300 µl					✓	✓	✓	✓					✓	✓	✓	✓		✓	✓	✓				✓	✓	✓
P11007	P11056	100 - 1000 µl									✓													✓				

Pipettor Brand/ Make			Brand Transferpette S							Capp Aero						Gilson Pipetman				Gilson Pipetman Ultra								
			Single Channel				Multi Channel			Single Channel /Multi Channel						Single Channel				Multi Channel								
Abdos Code for Filter Pipette Tips	Abdos Code for Last Drop Filter Pipette Tips	Volume	0.1-1µl	0.5-10µl	2-20µl 'ULTRA MICRO'	10-100µl	20-200µl	100-1000µl	0.5-10µl	10-100µl	20-200µl	30-300µl	0.2-2µl	0.5-10µl	5-50µl	10-100µl	25-200µl	50-300µl	100-1000µl	0.2-2µl	1-10µl	2-20µl	20-100µl	50-200µl	200-1000µl	1-20µl	20-300µl	
P11001	P11050	0.1 - 10 µl	✓						✓				✓	✓						✓	✓							
P11002	P11051	0.1 - 10 µl	✓						✓				✓	✓						✓	✓							
P11003	P11052	1 - 20 µl				✓	✓		✓	✓						✓	✓						✓	✓				
P11026	P11066	1 - 50 µl				✓	✓		✓	✓					✓	✓							✓	✓				
P11004	P11053	1 - 100 µl				✓	✓		✓	✓					✓	✓							✓	✓				
P11005	P11054	1 - 200 µl				✓	✓		✓	✓					✓	✓							✓	✓				
P11006	P11055	1 - 300 µl				✓	✓		✓	✓	✓				✓	✓	✓						✓	✓			✓	
P11007	P11056	100 - 1000 µl						✓											✓						✓			

Pipettor Brand/ Make			Gilson Pipetman Ultra					Gilson Concept			Gilson Concept			Gilson Neo				
			Single Channel					Single Channel			Multi Channel			Single Channel				
Abdos Code for Filter Pipette Tips	Abdos Code for Last Drop Filter Pipette Tips	Volume	0.2-2µl	1-10µl	2-20µl	20-100µl	20-200µl	200-1000µl	0.5-10µl	5-100µl	20-300µl	1-10µl	10-100µl	30-300µl	0.2-2µl	1-10µl	20-100µl	100-1000µl
P11001	P11050	0.1 - 10 µl		✓					✓			✓						
P11002	P11051	0.1 - 10 µl		✓					✓			✓						
P11003	P11052	1 - 20 µl				✓	✓			✓		✓						✓
P11026	P11066	1 - 50 µl				✓	✓			✓		✓						✓
P11004	P11053	1 - 100 µl				✓	✓			✓		✓						✓
P11005	P11054	1 - 200 µl				✓	✓			✓		✓						✓
P11006	P11055	1 - 300 µl				✓	✓			✓	✓	✓	✓					✓
P11007	P11056	100 - 1000 µl						✓										✓

Pipettor Brand/ Make			Vistalab Ovation QS					Vistalab Ovation M					Vistalab Ovation E				Eppendorf Reference					Eppendorf Electronic							
			Single Channel					Single Channel					Multi Channel				Single Channel												
Abdos Code for Filter Pipette Tips	Abdos Code for Last Drop Filter Pipette Tips	Volume	0.2-2µL	1-10µL	2-20µL	10-100µL	20-200µL	100-1000µL	0.2-2µL	1-10µL	2-20µL	10-100µL	20-200µL	100-1000µL	0.5-20µL	5-250µL	2-125µL	25-1250µL	0.1-10µL	"0.1-10µL 'ULTRA MICRO'	2-20µL	10-100µL	20-200µL	100-1000µL	0.5-10µL	5-100µL	2-200µL	50-1000µL	
P11001	P11050	0.1 - 10 µl	✓	✓	✓				✓	✓	✓			✓				✓	✓										
P11002	P11051	0.1 - 10 µl	✓	✓	✓				✓	✓	✓			✓				✓	✓										
P11003	P11052	1 - 20 µl				✓	✓				✓	✓			✓	✓						✓	✓			✓	✓		
P11026	P11066	1 - 50 µl				✓	✓				✓	✓			✓	✓						✓	✓			✓	✓		
P11004	P11053	1 - 100 µl				✓	✓				✓	✓			✓	✓						✓	✓			✓	✓		
P11005	P11054	1 - 200 µl				✓	✓				✓	✓			✓	✓						✓	✓			✓	✓		
P11006	P11055	1 - 300 µl				✓	✓				✓	✓			✓	✓						✓	✓			✓	✓		
P11007	P11056	100 - 1000 µl						✓					✓				✓							✓				✓	

Pipettor Brand/ Make			Eppendorf Research					Eppendorf					Thermo FinnpiPETTE				Thermo FinnpiPETTE	Matrix Impact/Impact2										
			Single Channel					Multi Channel					Single Channel				Multi Channel	s/mc										
Abdos Code for Filter Pipette Tips	Abdos Code for Last Drop Filter Pipette Tips	Volume	0.1-2.5µl	0.5-10µl	2-20µl	10-100µl	20-200µl	100-1000µl	0.5-10µl	5-100µl	50-100µl	0-300µl	30-300µl	50-1200µl	0.2-10µl	0.5-10µl	5-40µl	40-200µl	100-1000µl	200-1000µl	0.1-10µl	10-100µl	30-300µl	2-125µl	2-20µl	15-1250µl		
P11001	P11050	0.1 - 10 µl		✓	✓				✓						✓	✓					✓							
P11002	P11051	0.1 - 10 µl		✓	✓				✓						✓	✓					✓							
P11003	P11052	1 - 20 µl				✓	✓			✓	✓						✓					✓			✓			
P11026	P11066	1 - 50 µl				✓	✓			✓	✓						✓					✓			✓			
P11004	P11053	1 - 100 µl				✓	✓			✓	✓						✓					✓			✓			
P11005	P11054	1 - 200 µl				✓	✓			✓	✓						✓					✓			✓			
P11006	P11055	1 - 300 µl				✓	✓			✓	✓	✓	✓				✓					✓	✓		✓	✓		
P11007	P11056	100 - 1000 µl						✓					✓*						✓	✓								

Pipettor Brand/ Make			Labnet Labpette					Labnet Labpette				Labnet BioPETTE E					Nichiryo /Oxford Benchmate											
			Single Channel					Multi Channel				Single Channel			Multi Channel		Single Channel & Multi Channel											
Abdos Code for Filter Pipette Tips	Abdos Code for Last Drop Filter Pipette Tips	Volume	0.1-2µl	0.5-10µl	2-20µl	10-100µl	20-200µl	100-1000µl	1-10µl	5-50µl	20-200µl	50-300µl	0.5-10µl	2-20µl	10-200µl	100-1000µl	0.5-10µl	2-20µl	10-200µl	100-1000µl	0.5-10µl	2-20µl	10-50µl	10-100µl	20-200µl	100-1000µl		
P11001	P11050	0.1 - 10 µl	✓	✓					✓				✓				✓				✓							
P11002	P11051	0.1 - 10 µl	✓	✓					✓				✓				✓				✓							
P11003	P11052	1 - 20 µl				✓	✓			✓				✓			✓							✓	✓			
P11026	P11066	1 - 50 µl				✓	✓			✓				✓			✓							✓	✓			
P11004	P11053	1 - 100 µl				✓	✓			✓				✓			✓							✓	✓			
P11005	P11054	1 - 200 µl				✓	✓			✓				✓			✓							✓	✓			
P11006	P11055	1 - 300 µl				✓	✓			✓	✓			✓			✓							✓	✓			
P11007	P11056	100 - 1000 µl						✓							✓		✓										✓	

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Pipettor Brand/ Make			Socorex Calibra/Accura										Axygen Axypet														
			Single Channel					Multi Channel					Single Channel					Multi Channel									
Abdos Code for Filter Pipette Tips	Abdos Code for Last Drop Filter Pipette Tips	Volume	0.1-20µl	0.2-20µl	0.5-10µl	1-10µl	2-20µl	10-100µl	20-200µl	100-1000µl	1-10µl	5-50µl	10-100µl	20-200µl	50-200µl	0.1-2µl	0.5-10µl	2-20µl	5-50µl	10-100µl	20-200µl	50-250µl	100-1000µl	1-10µl	5-50µl	20-200µl	50-300µl
P11001	P11050	0.1 - 10 µl		✓	✓					✓						✓							✓				
P11002	P11051	0.1 - 10 µl		✓	✓					✓						✓							✓				
P11003	P11052	1 - 20 µl					✓	✓			✓	✓	✓	✓					✓	✓	✓				✓	✓	✓
P11026	P11066	1 - 50 µl					✓	✓			✓	✓	✓	✓					✓	✓	✓				✓	✓	✓
P11004	P11053	1 - 100 µl					✓	✓			✓	✓	✓	✓					✓	✓	✓				✓	✓	✓
P11005	P11054	1 - 200 µl					✓	✓			✓	✓	✓	✓					✓	✓	✓				✓	✓	✓
P11006	P11055	1 - 300 µl					✓	✓			✓	✓	✓	✓					✓	✓	✓	✓			✓	✓	✓
P11007	P11056	100 - 1000 µl							✓													✓					

Pipettor Brand/ Make		BRAND		Eppendorf		Biohit Proline plus		Gilson		Thermo		Abdos	
Abdos Code for Filter Pipette Tips	Volume	1-5 ml	1-10 ml	1-5 ml	1-10 ml	1-5 ml	1-10 ml	1-5 ml	1-10 ml	1-5 ml	1-10 ml	1-5 ml	1-10 ml
P11017	1 - 5 ml			✓		✓		✓				✓	
P11018	1 - 10 ml		✓		✓		✓		✓				✓

Pipettor Brand/ Make			Abdos premium	Abdos premium Plus	ABDOS D. Pipette (Electronic)	Brand Transferpette S	Gilson Pipetman	Eppendorf Research
Abdos Code for Filter Pipette Tips	Abdos Code for Last Drop Filter Pipette Tips	Volume	Single channel			Single channel		
			100-1000µl	100-1000µl	100-1000µl	100-1000µl	100-1000µl	100-1000µl
P11015	P11057	100 - 1000 µl	✓	✓	✓	✓	✓	✓
P11016	P11058	100 - 1250 µl	✓	✓	✓	✓	✓	✓

Pipettor Brand/ Make			THERMO (Electronic) FinnpiPET	Thermo FinnpiPET F3	Nichiryo NICHIPET EX	SOCOREX ACURA 825	BIOHIT Proline	ErgoOne Star Lab
Abdos Code for Filter Pipette Tips	Abdos Code for Last Drop Filter Pipette Tips	Volume	Multi channel	Single channel				
			100-1200µl	100-1000µl	100-1000µl	100-1000µl	100-1000µl	100-1000µl
P11015	P11057	100 - 1000 µl	✓	✓	✓	✓	✓	✓
P11016	P11058	100 - 1250 µl	✓	✓	✓	✓	✓	✓

Pipettor Brand/ Make		BRAND		Eppendorf		Biohit Proline plus		Gilson		Thermo		Abdos	
Abdos Code for Filter Pipette Tips	Volume	1-5 ml	1-10 ml	1-5 ml	1-10 ml	1-5 ml	1-10 ml	1-5 ml	1-10 ml	1-5 ml	1-10 ml	1-5 ml	1-10 ml
P10170	1 - 5 ml			✓		✓		✓				✓	
P10171	1 - 10 ml		✓		✓		✓		✓				✓

Note: Variants of all tips are compatible with the pipette's brand mentioned in the above list.

Eg . Type : Tips – Bulk in Resealable Bags

Variants : Pipette Tips, (P10115 , P10137 , P10129 , P10130 , P10101 , P10105 , P10138 , P10102 , P10106 , P10174 , P10175)  
 Last Drop™ Low Retention Pipette Tips (P10001, P10002, P10003 , P10004 , P10005, P10006)  
 Filter Pipette Tips (P11001, P11002, P11003, P11004 , P11005 , P11006 , P11007 , P11015 , P11016)  
 Last Drop™ Low Retention Filter Pipette Tips (P11050 , P11051 , P11052 , P11053 , P11054 , P11055 , P11056)

Followed with other variants & Types: Tips – Individually wrapped, Racked, Racked Sterile & Refill pack.

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- Stepmate Stepper is ideal for routine or research applications in diagnostics, molecular biology, environmental analysis and more.
- Stepmate stepper works on positive displacement pressure and offers highest precision dispensing of liquid media with high viscosity, high density and high vapour pressure.
- It provides up to 48 dispensing steps and improves work efficiently.
- It is lightweight and ergonomic.
- It can be used with one hand and is maintenance free.
- Factory fitted calibration.



Stepmate Stepper			
Code	Capacity	No./case	Price/case (₹)
E11171	0.5 - 50 ml	1	24172

Syringes				
Code	Capacity	Colour	No./case	Price/case (₹)
E11172D	0.5ml	Natural	100	17094
E11173D	1.25ml	Natural	100	17094
E11174D	2.5ml	Natural	100	17094
E11175D	5ml	Natural	100	17094
E11176D	12.5ml	Natural	100	17094
E11177D	25ml	Natural	25	20559
E11178D	50ml	Natural	25	20559
E11179D	25ml Adaptor	Red	1	1155
E11180D	50ml Adaptor	Grey	1	1155
E11181D	0.5ml Sterile	Natural	100	18365
E11182D	1.25ml Sterile	Natural	100	18365
E11183D	2.5ml Sterile	Natural	100	18365
E11184D	5ml Sterile	Natural	100	18365
E11185D	12.5ml Sterile	Natural	100	18365
E11186D	25ml Sterile	Natural	25	21830
E11187D	50ml Sterile	Natural	25	21830

\* The first and last dispensing liquid should be discarded for precision.

Dial Setting	01	02	03	04	05
Number of Steps	48	23	15	11	08

Syringe Volume	Test Volume (µl)					A%	P%
0.50 ml	10	20	30	40	50	± 0.8	≤ 0.7
1.25 ml	25	50	75	100	125	± 0.8	≤ 0.5
2.50 ml	50	100	150	200	250	± 0.8	≤ 0.4
5.00 ml	100	200	300	400	500	± 0.4	≤ 0.3
12.50 ml	250	500	750	1000	1250	± 0.3	≤ 0.3
25.00 ml	500	1000	1500	2000	2500	± 0.2	≤ 0.3
50.0 ml	1000	2000	3000	4000	5000	± 0.2	≤ 0.2



## 67 SUPREME BOTTLE TOP DISPENSER

- Supreme is a robust and reliable basic bottle top dispenser designed through years of research.
- Supreme has a smooth and soft plunger for easy working in difficult laboratory conditions.
- Fully Autoclavable.

## SPECIFICATIONS :

Piston	PTFE & ETP
Cylinder	Borosilicate Glass
Volume Adjustment Knob	PP, 180°, Rotation
Value Housing	PFA
Value Assembly	Borosilicate Glass Ball & Seat
Discharge Assembly	PTFE
Delivery Tube	FEP
Inlet Tube	FEP
Calibration	Individually Calibrated and Certified
Accuracy & Reproducibility	According to ISO 8655 Standards
Compatibility	Excellent with all reagents except HF



Code	Capacity	Increment	Accuracy		CV		No./case	Price/case (₹)
E11701	0.25 – 2.5 ml	0.05 ml	± 0.6 %	± 0.015 ml	± 0.2 %	± 0.005 ml	1	14551
E11702	0.50 – 5 ml	0.1 ml	± 0.6 %	± 0.030 ml	± 0.2 %	± 0.010 ml	1	14551
E11703	1 – 10 ml	0.2 ml	± 0.6 %	± 0.060 ml	± 0.2 %	± 0.020 ml	1	14551
E11704	2.5 – 30 ml	0.5 ml	± 0.6 %	± 0.180 ml	± 0.2 %	± 0.060 ml	1	21488
E11705	5 – 60 ml	1 ml	± 0.6 %	± 0.360 ml	± 0.2 %	± 0.120 ml	1	21488
E11706	10 – 100 ml	2 ml	± 0.6 %	± 0.600 ml	± 0.2 %	± 0.200 ml	1	25918



## 68 SUPREME PLUS BOTTLE TOP DISPENSER

- Supreme plus is the most advanced, next generation, highly robust and reliable bottle top dispenser designed through years of research.
- Supreme duet has a recirculation valve for redirecting the liquid into the bottle for bubble free dispensing without any loss of reagent.
- Supreme duet has a smooth and soft plunger for easy working in difficult laboratory conditions.
- Fully Autoclavable.

## SPECIFICATIONS :

Piston	PTFE & ETP
Cylinder	Borosilicate Glass
Volume Adjustment Knob	PP, 180° Rotation
Value Housing	PFA
Re-Circulation Value Housing	PFA
Value Assembly	Borosilicate Glass Ball & Seat
Discharge Assembly	PTFE
Delivery Tube	FEP
Inlet Tube	FEP
Calibration	Individually Calibrated and Certified
Accuracy & Reproducibility	According to ISO 8655 Standards
Compatibility	Excellent with all reagents except HF



Code	Capacity	Increment	Accuracy		CV		No./case	Price/case (₹)
E11711	0.25 – 2.5 ml	0.05 ml	± 0.6 %	± 0.015 ml	± 0.2 %	± 0.005 ml	1	20007
E11712	0.50 – 5 ml	0.1 ml	± 0.6 %	± 0.030 ml	± 0.2 %	± 0.010 ml	1	20007
E11713	1 – 10 ml	0.2 ml	± 0.6 %	± 0.060 ml	± 0.2 %	± 0.020 ml	1	20007
E11714	2.5 – 30 ml	0.5 ml	± 0.6 %	± 0.180 ml	± 0.2 %	± 0.060 ml	1	28061
E11715	5 – 60 ml	1 ml	± 0.6 %	± 0.360 ml	± 0.2 %	± 0.120 ml	1	28061
E11716	10 – 100 ml	2 ml	± 0.6 %	± 0.600 ml	± 0.2 %	± 0.200 ml	1	33387



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- Supreme duet is the most advanced, next generation, highly robust and reliable bottle top dispenser designed through years of research.
- Supreme duet has a recirculation valve for redirecting the liquid into the bottle and rinsing the instrument without dismounting from the bottle.
- Supreme duet with a worldwide patent can be used in 4 modes: dilution, rinsing, dual liquid handling and re-circulation all in a single unit.
- Supreme duet has a smooth and soft plunger for easy working in difficult laboratory conditions.
- Fully Autoclavable.

## SPECIFICATIONS :

Piston	PTFE & ETP
Cylinder	Borosilicate Glass
Volume Adjustment Knob	PP, 180° Rotation
Value Housing	PFA
Re-Circulation Value Housing	PFA
Value Assembly	Borosilicate Glass Ball & Seat
Discharge Assembly	PTFE
Delivery Tube	FEP
Inlet Tube	FEP
Calibration	Individually Calibrated and Certified
Accuracy & Reproducibility	According to ISO 8655 Standards
Compatibility	Excellent with all reagents except HF



Code	Capacity	Increment	Accuracy		CV		No./case	Price/case (₹)
E11731	0.25 – 2.5 ml	0.05 ml	± 0.6 %	± 0.015 ml	± 0.2 %	± 0.005 ml	1	36116
E11732	0.50 – 5 ml	0.1 ml	± 0.6 %	± 0.030 ml	± 0.2 %	± 0.010 ml	1	36116
E11733	1 – 10 ml	0.2 ml	± 0.6 %	± 0.060 ml	± 0.2 %	± 0.020 ml	1	36116
E11734	2.5 – 30 ml	0.5 ml	± 0.6 %	± 0.180 ml	± 0.2 %	± 0.060 ml	1	48782
E11735	5 – 60 ml	1 ml	± 0.6 %	± 0.360 ml	± 0.2 %	± 0.120 ml	1	49626
E11736	10 – 100 ml	2 ml	± 0.6 %	± 0.600 ml	± 0.2 %	± 0.200 ml	1	68463



Organization: IRL STDC

Ease of Use ★★★★★

After Sales Service ★★★★★

Value for Money ★★★★★

“ Great recommended ”

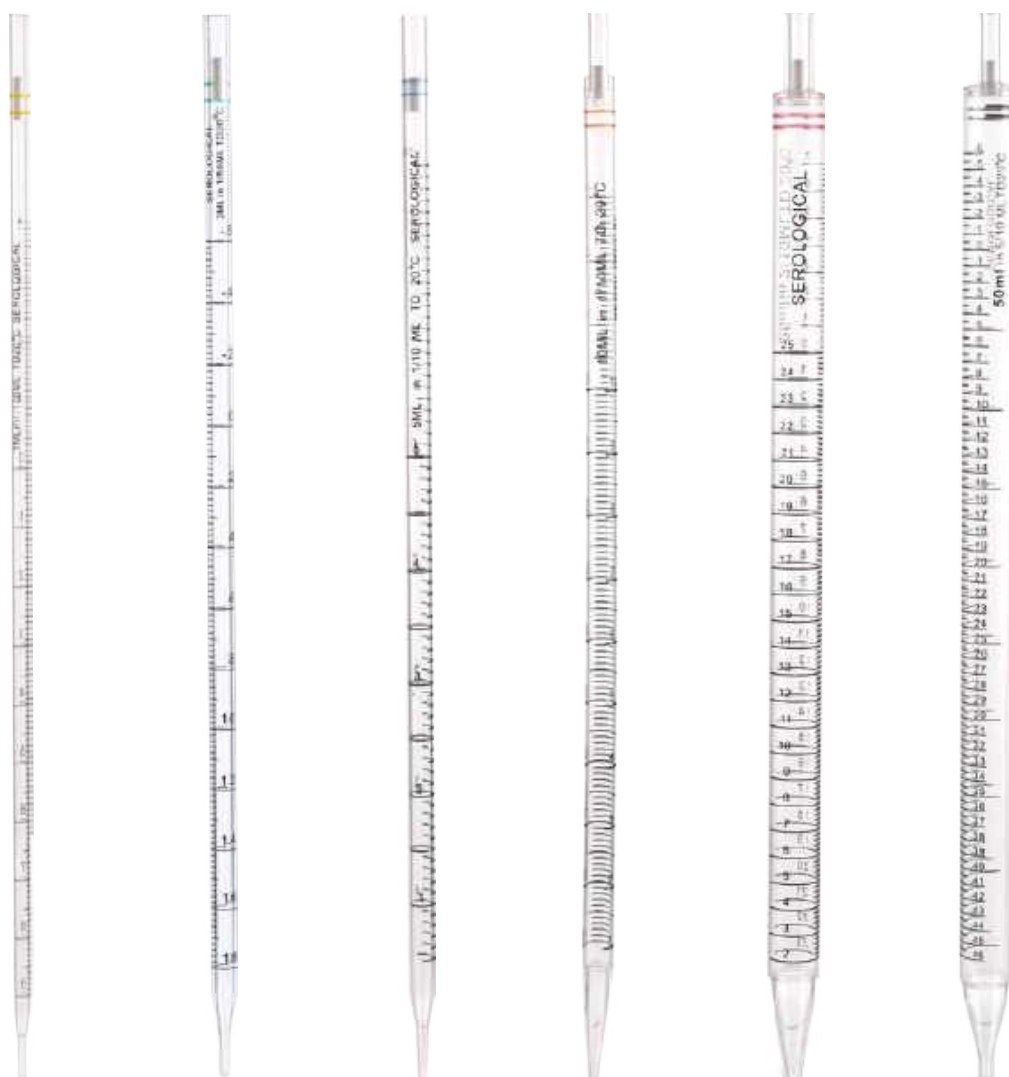
★★★★★ Average Rating 5.0

Application Area: For dispensing reagents

We are using it to dispense reagents and media and yes i can ensure you it works great

Review Date: 5 Jul 2023 | Abdos

- ABDOS serological pipettes are designed for accurate and rapid fluid dispensing.
- ABDOS sterile serological pipettes are pyrogen free and PE filter plugged for a variety of liquid handling applications. The sharp, black, highly legible permanent graduations prevent ambiguity and guarantee precise reading and accurate dispensing to  $\pm 2\%$ .
- Made of transparent medical grade polystyrene.
- ABDOS serological pipettes are tested for endotoxins (0.005 EU/ml), cytotoxicity (ISO 10993-5) and are guaranteed non-haemolytic.
- Ideal in Cell culture & tissue culture applications.
- The reverse graduations of ABDOS disposable serological pipettes show volume removed or remaining on all pipettes larger than 1mL. Moreover, the generous negative graduations provide additional pipetting volume.
- ABDOS sterile serological pipettes have an effective filter barrier to prevent overflow of liquid into pipette. Designed to fit with available motorized pipette controllers.



Code	P10601	P10607	P10602	P10608	P10603	P10609	P10604	P10610	P10605	P10611	P10606	P10612
Capacity	1 ml	1 ml	2 ml	2 ml	5 ml	5 ml	10 ml	10 ml	25 ml	25 ml	50 ml	50 ml
Height	262 mm	262 mm	280 mm	280 mm	333 mm	333 mm	354 mm	354 mm	312 mm	312 mm	360 mm	360 mm
No./Inner pack	Individually wrapped	100 (Non-Sterile)	Individually wrapped	100 (Non-Sterile)	Individually wrapped	25 (Non-Sterile)	Individually wrapped	25 (Non-Sterile)	Individually wrapped	25 (Non-Sterile)	Individually wrapped	25 (Non-Sterile)
No./case	500	500	400	400	200	200	200	200	200	200	100	100
Price/case (₹)	5100	4590	4500	5060	3500	3150	3700	3330	8476	7662	8400	7560

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- Colour coded by volume with green for 10 ml and red for 25 ml.
- Users can easily insert glass and plastic pipettes into the collar with stable fingers for secure hold.
- Rotating the knurled thumbwheel draws liquid to desired volumes. To release liquid apply light pressure to the fast release lever. For gradual dispensing rotate the thumb wheel.
- Resistant to acids, alkalis.
- Easily disassemble for cleaning.



Code	Capacity	No./case	Price/case (₹)
E11222	2 ml	4	3056
E11218	10 ml	4	3056
E11216	25 ml	4	3360

- Pump opening is standard to fit almost all glass and plastic pipettes.
- One size can be used for pipetting liquid upto 100 ml.
- The pump has a heavy wall and easy to grip body.

Code	Capacity	No. / pack	Price/case (₹)
E11217	Up to 100 ml	10	3092



- Abdos Rave Pipette Controller is robust, lightweight and its simple to use operations makes it ideal for repetitive pipetting.
- Users can use Volumetric and Serological Pipettes ranging from 0.1 ml to 100 ml.
- Abdos Rave Pipette Controller has autoclavable silicone pipette holder.
- Abdos Rave Pipette Controller is supplied with integral and replaceable 3 um filter.
- The in-line filter prevents contamination.
- Precise Pipetting control is possible in Abdos Rave Pipette Controller.

Rave Pipette Controller			
Code	Product	No./case	Price/case (₹)
E11113	Rave Pipette Controller	1	4075

Spare Filters			
Code	Product	No./case	Price/case (₹)
E11119	Spare 3.00 um Filter	1	339



## 74 RAVE PIPETTE FILLER

- Abdos Rave Plus Pipette Filler is robust, light-weight and is ergonomically designed to allow longer, fatigue- free pipetting.
- Abdos Rave Plus Pipette Filler is powerful and can fill a 50 ml Pipette in less than 10 seconds. Motor & pump operate quietly with very low vibration.
- Users can use Volumetric and Serological Pipettes ranging from 1 ml to 100 ml.
- Abdos Rave Plus Pipette Filler is supplied with Lithium-ion cell that provides enough battery power to finish the users series.
- Abdos Rave Pipette Controller is supplied with integral and replaceable 0.45 um filter.

## SPECIFICATIONS :

Battery	Lithium-Ion Cell
Battery Service Life	More than 8 hours of Intermittence use.
Charging Time	Approx. 2 Hours.
Pipette Types	Glass or Plastic Pipettes (0.1-100ml)
Aspirate Speeds	8
Dispense Speeds	8 Gravity Dispense
Filter	0.45 $\mu$ m Hydrophobic
Capacity	2000 mA



Rave Pipette Filler			
Code	Product	No./case	Price/case (₹)
E1114	Rave Plus Pipette Filler	1	25807
E1120	Rave Eco Pipette Filler	1	19510

Rave Pipette Filler			
Code	Product	No./case	Price/case (₹)
E1116	Spare 0.45 $\mu$ m Filter	1	903
E1117	Spare Lithium - ion	1	7910
E1118	Spare Adapter	1	6936



E1114



Scan to watch product video.

## 75 PIPETTE STAND VERTICAL, PP

- These Polypropylene racks can hold upto 28 glass or plastic pipettes in vertical position.
- The Heavy base has a diameter of 9 inch and polypropylene coated square rod having a length of 15 inches is screwed into the base.
- These racks are available in white colour.
- There are two discs to hold the pipette and give it stability. Both Discs can be moved in upward and downward direction to accommodate various lengths of pipette.
- Can be autoclaved.



Code	Places	D x H	No./case	Price/case (₹)
P70205	28	232 x 381 mm	1	926



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## 76 PIPETTE STAND HORIZONTAL, PP

- These Polypropylene racks can hold upto 12 glass or plastic pipettes in horizontal position.
- The rack consists of three polypropylene coated metal rods to provide stability and strength to rack.
- Can be Autoclaved.
- These Racks are available in white colour.
- These racks can be easily assembled or disassembled to save space.



Code	Places	No./case	Price/case (₹)
P70204	12	6	1512



## 77 PIPETTE STORAGE RACK WITH MAGNET, ABS

- These racks help to protect and organize glass and plastic pipettes.
- Angled four shelved compartments keep 0.1 to 50 mL pipettes or cans within easy reach while preventing damage and clutter.
- These have cut-out viewing window and come with two removable attachments that hold pipette bulbs, fillers, and pumps.
- These unique innovative magnetized racks have strong magnets on both sides and mount securely to most metal surfaces.

Code	Places	L x W x H	No./case	Price/case (₹)
P70202	Store 1 - 50 ml pipette or cans	291 x 88 x 401 mm	1	5429



## 78 PIPETTE STORAGE RACK, ABS

- These racks can be assembled together horizontally or vertically to build the desired configuration, or used as individual holders, using sections.
- Angle shelf design makes these racks compatible to use for storing 0.1 to 50 ml of Serological pipettes.
- Can be used bench-top or can be connected to most metal surfaces.

Code	Size (W x H x D)	Compatible	No./case	Price/case (₹)
PI0620	301 x 100 x 127.5 mm	0.1 ml to 50 ml	3	9161



- Excellent chemical stability.
- Suitable for drawing, transferring and blending various volumes of liquid.
- Transparent with clear graduation markings for easy liquid level observation.
- Manufactured in ISO 8 grade clean room.
- No additive contamination.
- Pipettes can be twisted and contorted for use with micro-vessels & oddly shaped containers.
- High precision and good repeatability.
- The individually packed pipettes are sterilized by Gamma radiation.



Individually wrapped  
Pasteur Pipettes



Code	P31207	P31208	P31201	P31202	P31209	P31210	P31205	P31206
Capacity	0.4 ml	0.4 ml Sterile, Individually wrapped	1.0 ml	1.0 ml Sterile, Individually wrapped	2.0 ml	2.0 ml Sterile, Individually wrapped	3.0 ml	3.0 ml Sterile, Individually wrapped
Height	131 mm	131 mm	154 mm	154 mm	152 mm	152 mm	154 mm	154 mm
No./case	500	500	500	500	500	500	500	500
Price/case (₹)	920	3267	828	3040	832	3190	863	3090
Price/48 Case (₹)	41510	147407	37351	137165	37522	143933	38932	139421



“ Good recommended ”

Organization: IRLSTDC

★★★★★ Average Rating 5.0

Ease of Use ★★★★★

Application Area: To transfer inoculum in media tube

After Sales Service ★★★★★

Good holding and pressure, easy to use, and right volume.

Value for Money ★★★★★

Review Date: 12 Jul 2023 | Abdos

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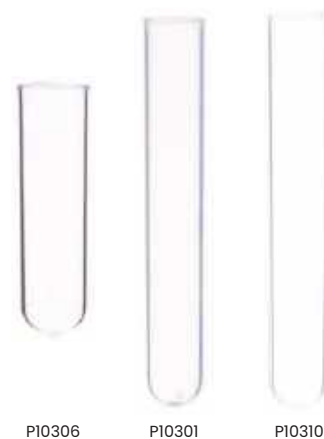
79

- Abdos Ria Vials are polypropylene/polystyrene tubes generally used in Radioimmuno Assay –a scientific method used to test antigens (for sample, hormone levels in the blood) without the need to use a bioassay.
- Abdos Ria Vial PP are clear and can withstand 3000\*g RCF during centrifugation while the transparent polystyrene tubes can withstand 1400\*g RCF.
- The PP tubes can accept common acids, alkalies & solvents at room temperature while the PS tubes can accept mild bases, weak acids but not organic solvents.
- Amber Ria Vials are used for light sensitive samples.
- Abdos Ria Vials PP are autoclavable while PS tubes are non-autoclavable.



## RIA Vial &amp; Plastic Test Tube

Code	Φ x h	Material	Capacity	No./case	Price/case (₹)	Price/260 Case (₹)
PI0305	12 X 40 mm	PP	2.5 ml	500	391	95450
PI0306	12 X 40 mm	PS	2.5 ml	500	415	101353
PI0301	12 x 75 mm	PP	5 ml	500	523	127877
PI0303	12 x 75 mm	PS	5 ml	500	538	131463
PI0308	13 X 100 mm	PP	8 ml	500	1401	-
PI0309	13 X 100 mm	PS	8 ml	500	1452	-
PI0310	16 X 100 mm	PP	10 ml	500	1741	-
PI0311	16 X 100 mm	PS	10 ml	500	1787	-



## RIA Vial Cap &amp; Plastic Test Tube Cap

Code	Φ	Material	No./case	Price/case (₹)	Price/192 Case (₹)
PI0304	12 mm	HDPE	500	280	50596
PI0307	12 mm	PP	500	335	60425
PI0302	12 mm	LDPE	500	335	60425
PI0312	13 mm	HDPE	1000	1356	-
PI0313	16 mm	HDPE	1000	1726	-



## Amber RIA Vial

Code	Φ x h	Material	Capacity	No./case	Price/case (₹)
PI0305A	12 x 40 mm	PP Amber	2.5 ml	500	489
PI0305A1	12 x 40 mm	PP Transparent Amber	2.5 ml	500	489
PI0301A	12 x 75 mm	PP Amber	5 ml	500	636
PI0301A1	12 x 75 mm	PP Transparent Amber	5 ml	500	636



## Amber RIA Vial Cap, HDPE

Code	Φ	Material	No./case	Price/case (₹)
PI0304A	12 mm	HDPE Amber	500	346
PI0304A1	12 mm	HDPE Transparent Amber	500	349



81 SAMPLE CONTAINER, PP/HDPE

- Ultra clear polypropylene container with polyethylene leak proof screw cap.
- Frosted portion for easy writing.
- Clear and easy to read graduations.
- Sterile container is individually packed in polyethylene pouch.
- Clean room ISO class 8.
- 120 ml containers are also available in stacked sleeves.



Code	Capacity	Colours	Subdivision	Height	No./case	Price/Piece(₹)	Price/case (₹)
P40101	60ml	Blue, Red, White & Yellow	10ml	55mm	400	7.48	2993
P40117	60ml with Label	Blue, Red, White & Yellow	10ml	55mm	400	8.00	3200
P40121	60ml Sample Container for Stool with Spoon & Label	White Container With Amber Cap	10ml	55mm	400	8.08	3232
P40102	60ml Sterile, Individually Wrapped	Blue, Red, White & Yellow	10ml	55mm	350	9.77	3420
P40114	60ml with Label, Sterile, Individually Wrapped	Blue, Red, White & Yellow	10ml	55mm	350	10.29	3602
P40120	60ml Sample Container for Stool with Spoon & Label, Sterile, Individually Wrapped	White Container With Amber Cap	10ml	55mm	350	10.39	3638
P40105	60ml with Spoon	Blue, Red, White & Yellow	10ml	55mm	400	9.15	3661
P40106	60ml with Spoon, Sterile, Individually Wrapped	Blue, Red, White & Yellow	10ml	55mm	350	12.30	4305
P40103	120ml	Blue, Red, White & Yellow	20ml	76mm	200	10.07	2014
P40118	120ml with Label	Blue, Red, White & Yellow	20ml	76mm	200	10.67	2134
P40104	120ml, Sterile, Individually Wrapped	Blue, Red, White & Yellow	20ml	76mm	200	11.19	2237
P40115	120ml with Label, Sterile, Individually Wrapped	Blue, Red, White & Yellow	20ml	76mm	200	11.79	2358
P40107	120ml, Stackable Sleeve of 25	Blue, Red, White & Yellow	20ml	76mm	500	8.72	4360
P40112	200ml	Blue, Red, White & Yellow	20ml	120mm	150	23.32	3498
P40113	200ml, Sterile Individually Wrapped	Blue, Red, White & Yellow	20ml	120mm	100	25.40	2540
P40116	200ml with Label, Sterile, Individually Wrapped	Blue, Red, White & Yellow	20ml	120mm	100	26.00	2600
P40119	200ml with Label	Blue, Red, White & Yellow	20ml	120mm	150	23.92	3588

Add Colour Code of your choice: BLUE (B), RED (R), WHITE (W) and YELLOW (Y)

**VALUE ADDITIONS**  
All Abdos Sample Containers can withstand up to 95 kPa of pressure, best suitable for vacuum transportation lift for samples at Hospitals.



- The Unique Grip screw cap provides a secure grip in wet conditions.
- Moulded ring provides stability and confirms complete closure of the cap while ensuring 100% leak proof.
- Sterile containers are individually wrapped and has been validated according to ISO 11137 for SAL 10<sup>-6</sup>
- Engraved graduation marks and frosted surface for Name, No. and date provides better visibility on volume and traceability of the samples.
- Highly Transparent for easy visualization of samples.

An IVD CERTIFIED PRODUCTS best recommended for diagnostics with a leakproof screw cap, principally important when transporting hazardous material. Ideal for transport and storage of urine, sputum and most liquids or particulate samples.

Samples containers shatter resistant Manufactured from ultra-pure USP-VI Virgin Polypropylene (PP) and Comply with the requirement of 21 CFR 177.1520.

Containers are Manufactured inside the controlled, validated Clean Room ISO Class 8 by high-end Injection Moulding using high precision moulds which ensure smooth and symmetrical End product.



82 WIRE SAMPLE CONTAINER RACK, EPOXY COATED STEEL

- Durable racks for transport or sample handling.
- Suitable for various shaped (round, conical, flat bottom) tubes & bottles.
- Superior chemical resistance.
- Holds bottle and vessels up to 58 mm in diameter.
- Slotted Bottom has mesh that gives support.



Code	Tube Diameter	Places	L x W x H	No./case	Price/case (₹)
P40111	55 mm	24 (6 x 4 Array)	393 x 262 x 50 mm	1	4516

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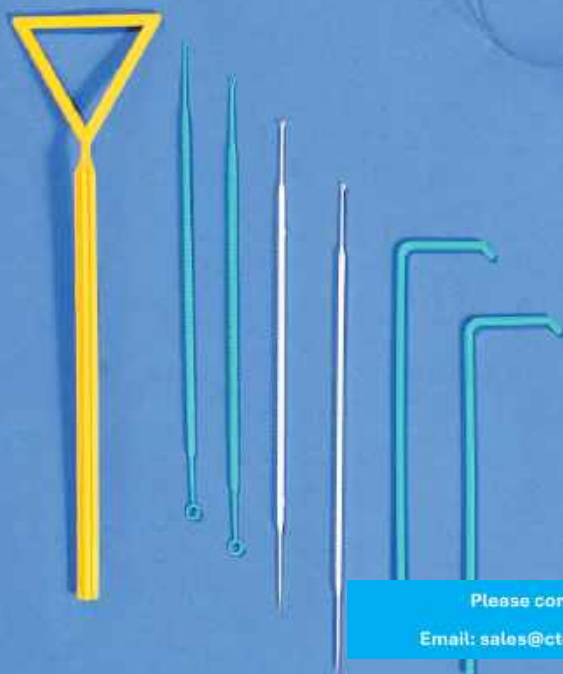


Quality is not an act.  
It is a habit

# 04

## Microbiology

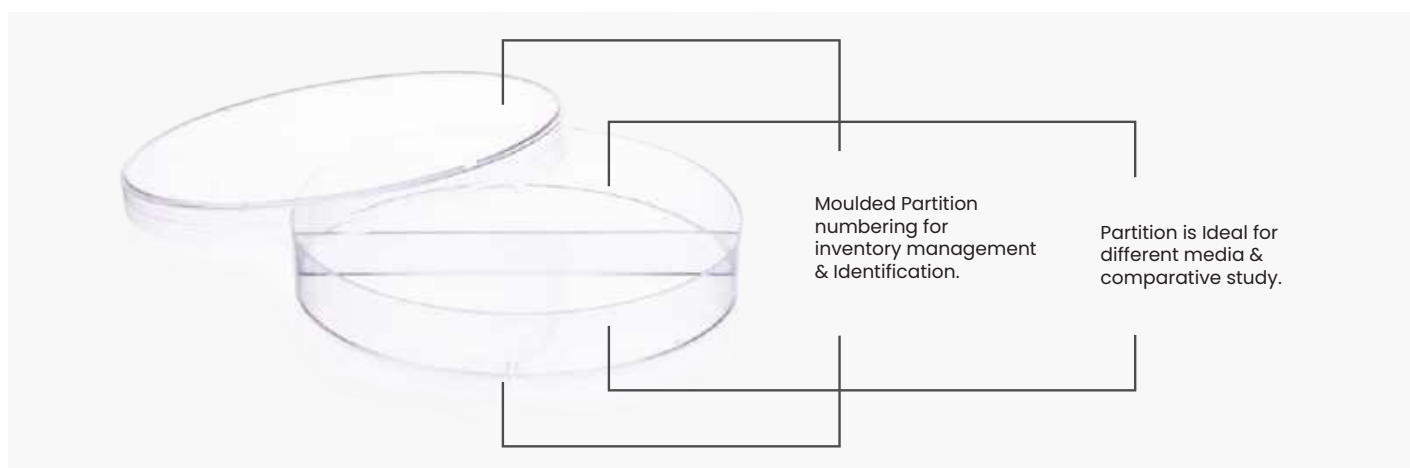
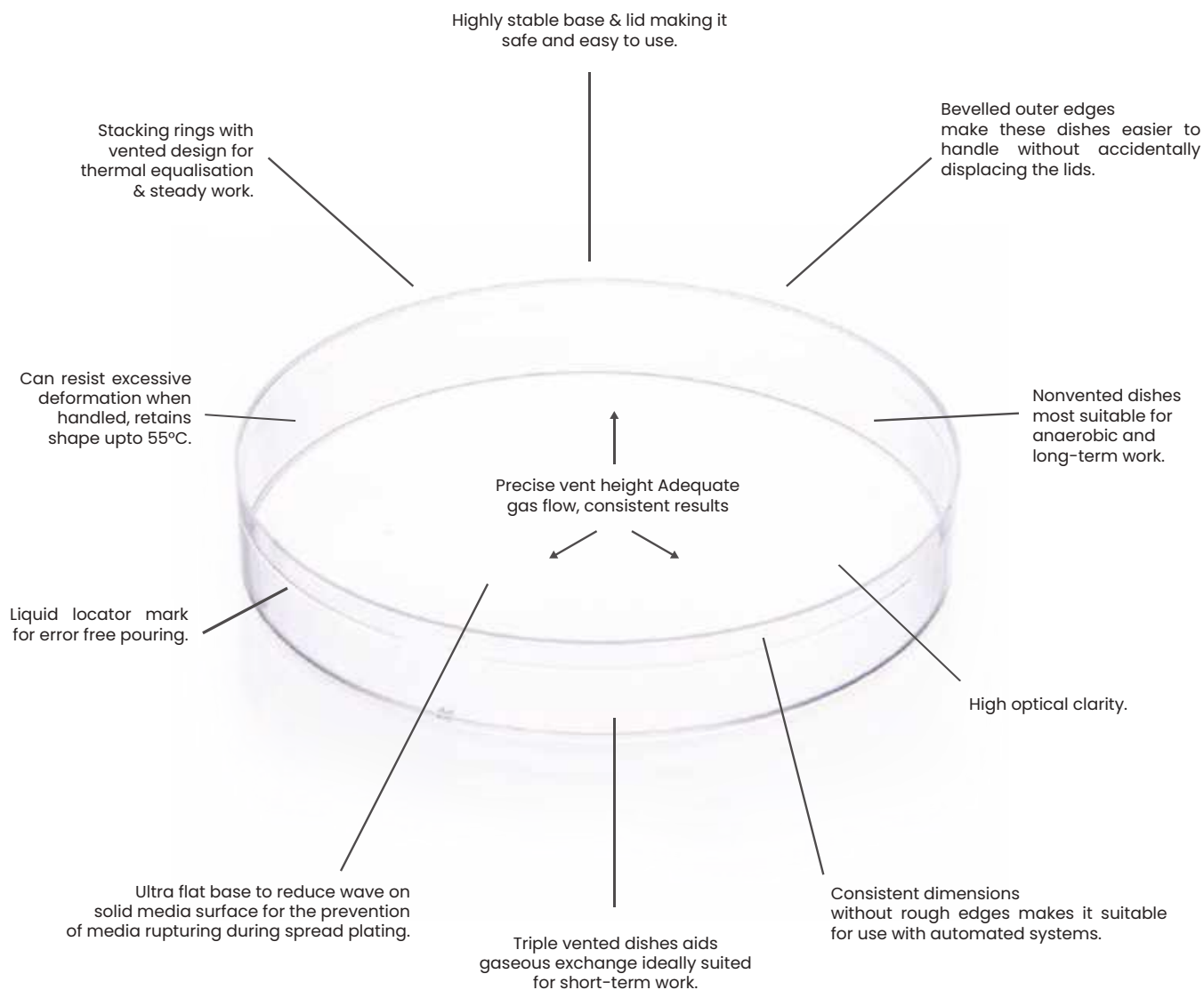
Petri Dish (PS): 60, 90 & 140 mm  
Contact Plates  
Soft Inoculation Loops  
Cell Spreaders  
Equipments & More



Please contact CT Enterprises for quotation.

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# Petri Dish Features



Scan to watch product video.

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- Abdos high quality disposable Petri Dishes are suitable for all microbiological applications manufactured as per ISO 24998 'Plastics laboratory ware – Single-use'.
- Robust dimensional accuracy of 90 mm ensures compatibility with most automated systems.
- Extremely high optical clarity for easy view on microscope.
- Vented Dishes have elevated lid that allows for superior gas exchange and evaporation.
- Non-Vented Dishes have flat lid that prevents evaporation, encouraging long incubation period & anaerobic application.
- Shallow dish design allows for maximum use of incubator space.
- Easy to stack.
- Abdos Petri Dishes retain their shape upto 55°C.
- Aseptic Dishes are manufactured in clean room under controlled low bio-burden conditions for best performance in all applications.
- Abdos Petri Dishes are also available in two & three compartments that enable parallel testing of single sample using different agar, solvents and reagents.
- Sterile Plates have been validated according to ISO 11137 for SAL 10<sup>-6</sup>



Petri Dish – Aseptic, PS

Code	Diameter	Height	Compartment	Vent	Packing	No./case	Price/case (₹)	Price/20 case (₹)
PI0931	60 mm	14.20 mm	No	0 Vent	Sleeve of 20	480	3598	67642
PI0932	60 mm	14.20 mm	No	3 Vent	Sleeve of 20	480	3598	67642
PI0901	90 mm	15.80 mm	No	3 Vent	Sleeve of 20	480	3727	70068
PI0902	90 mm	15.80 mm	No	3 Vent	Individual Wrapped	380	3313	62284
PI0903	90 mm	15.80 mm	No	0 Vent	Sleeve of 20	480	3727	70068
PI0904	90 mm	15.80 mm	No	0 Vent	Individual Wrapped	380	3313	62284
PI0933	140 mm	17.50 mm	No	0 Vent	Sleeve of 5	180	6512	122426
PI0934	140 mm	17.50 mm	No	3 Vent	Sleeve of 5	180	6512	122426

Petri Dish – Gamma Radiated Sterile, PS

Code	Diameter	Height	Compartment	Vent	Packing	No./case	Price/case (₹)	Price/20 case (₹)
PI0935	60 mm	14.20 mm	No	0 Vent	Sleeve of 20	480	3900	73320
PI0936	60 mm	14.20 mm	No	3 Vent	Sleeve of 20	480	3900	73320
PI0905	90 mm	15.80 mm	No	3 Vent	Sleeve of 20	480	4134	77719
PI0906	90 mm	15.80 mm	No	3 Vent	Sleeve of 10	480	4229	79505
PI0907	90 mm	15.80 mm	No	3 Vent	Individual Wrapped	380	3747	70444
PI0908	90 mm	15.80 mm	No	0 Vent	Sleeve of 20	480	4134	77719
PI0909	90 mm	15.80 mm	No	0 Vent	Sleeve of 10	480	4248	79862
PI0910	90 mm	15.80 mm	No	0 Vent	Individual Wrapped	380	3747	70444
PI0937	140 mm	17.50 mm	No	0 Vent	Sleeve of 5	180	6866	129081
PI0938	140 mm	17.50 mm	No	3 Vent	Sleeve of 5	180	6866	129081

Petri Dish – Gamma Radiated Sterile, Double Wrapped, PS

Code	Diameter	Height	Compartment	Vent	Packing	No./case	Price/case (₹)
PI0928	90 mm	15.80 mm	No	0 Vent	Sleeve of 18	432	4244
PI0927	90 mm	15.80 mm	No	0 Vent	Sleeve of 8	384	3977
PI0939	90 mm	15.80 mm	No	3 Vent	Sleeve of 18	432	4244
PI0940	90 mm	15.80 mm	No	3 Vent	Sleeve of 8	384	3977

## Petri Dish – Gamma Radiated Sterile, Triple Wrapped, PS

Code	Diameter	Height	Compartment	Vent	Packing	No./case	Price/case (₹)
PI0941	90 mm	15.80 mm	No	0 Vent	Sleeve of 8	320	3760
PI0942	90 mm	15.80 mm	No	0 Vent	Sleeve of 18	432	4471
PI0943	90 mm	15.80 mm	No	3 Vent	Sleeve of 8	320	3760
PI0944	90 mm	15.80 mm	No	3 Vent	Sleeve of 18	432	4471

## 2 Compartment Petri Dish – Aseptic, PS

Code	Diameter	Height	Compartment	Vent	Packing	No./case	Price/case (₹)
PI0911	90 mm	15.80 mm	2 Compartment	3 Vent	Sleeve of 20	480	4822
PI0912	90 mm	15.80 mm	2 Compartment	3 Vent	Individual Wrapped	380	4293
PI0913	90 mm	15.80 mm	2 Compartment	0 Vent	Sleeve of 20	480	4822
PI0914	90 mm	15.80 mm	2 Compartment	0 Vent	Individual Wrapped	380	4293

## 2 Compartment Petri Dish – Gamma Radiated Sterile, PS

Code	Diameter	Height	Compartment	Vent	Packing	No./case	Price/case (₹)
PI0915	90 mm	15.80 mm	2 Compartment	3 Vent	Sleeve of 20	480	5332
PI0916	90 mm	15.80 mm	2 Compartment	3 Vent	Individual Wrapped	380	4808
PI0917	90 mm	15.80 mm	2 Compartment	0 Vent	Sleeve of 20	480	5332
PI0918	90 mm	15.80 mm	2 Compartment	0 Vent	Individual Wrapped	380	4808



## 3 Compartment Petri Dish – Aseptic, PS

Code	Diameter	Height	Compartment	Vent	Packing	No./case	Price/case (₹)
PI0919	90 mm	15.80 mm	3 Compartment	3 Vent	Sleeve of 20	480	6091
PI0920	90 mm	15.80 mm	3 Compartment	3 Vent	Individual Wrapped	380	5224
PI0921	90 mm	15.80 mm	3 Compartment	0 Vent	Sleeve of 20	480	6091
PI0922	90 mm	15.80 mm	3 Compartment	0 Vent	Individual Wrapped	380	5224

## 3 Compartment Petri Dish – Gamma Radiated Sterile, PS

Code	Diameter	Height	Compartment	Vent	Packing	No./case	Price/case (₹)
PI0923	90 mm	15.80 mm	3 Compartment	3 Vent	Sleeve of 20	480	6733
PI0924	90 mm	15.80 mm	3 Compartment	3 Vent	Individual Wrapped	380	6054
PI0925	90 mm	15.80 mm	3 Compartment	0 Vent	Sleeve of 20	480	6733
PI0926	90 mm	15.80 mm	3 Compartment	0 Vent	Individual Wrapped	380	6054



## Trusted By Scientist

Status: Reviewer ★

Member since: 2022

Organization: IIT Guwahati

Ease of use ★★★★★

After sales service ★★★★★

Value for money ★★★★★



“Great product with further recommendation to other people who haven't tried yet.”

Rating: 5.0 ★★★★★

Application Area: Cell culture experiment

"The product is of good quality and easy to use. The dimension and size of the plate fits fine (90 mm) for everyday use in cell culture experiment. The lid and bottom part is perfectly fit and requires less media to carry on your experiment. It is a nice product that has proper air space and has less contamination property. It also produce less fogginess which happens due to growing cells in the plate, as compared to other petri dishes, which properly enables us to observe the growing cells clearly under microscope. Thus, considering all the positivity, it is one in all (with good qualities) product item. Thanks to ABDOS."

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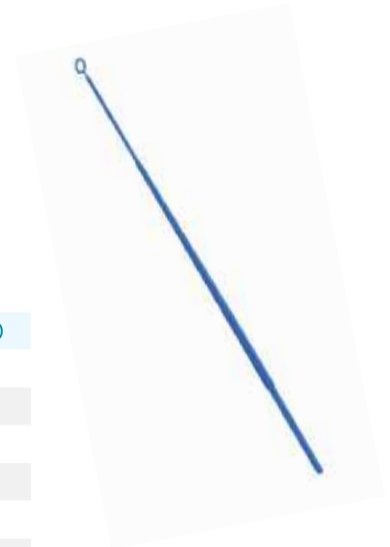
- Abdos Contact plates offers the best solutions for surface monitoring for cleanliness of the cleanrooms and laboratories.
- All Abdos contact plates are manufactured under Class 8 cleanroom facility to minimize the risk of contamination and are further sterilized by Gamma irradiation.
- The contact plates are available in Flat and Dome bases and are also available in vent and non-vent variants.
- 10 x 10mm grid base for easy cell counting with 25cm<sup>2</sup> growth area.
- Tight closure for better handling.
- Available in Gamma Sterile.
- All Abdos Sterile Contact Plates are validated according to ISO 11137 for SAL 10<sup>-6</sup>.



Contact Plates – Gamma Sterile, PS								
Code	Base	Diameter	Height	Vent	Packing	No./Case	Price/Case	Price/20Case
PI0950	Flat	65mm	15mm	3	Sleeve of 10	400	3104	58355
PI0951	Flat	65mm	14.8mm	0	Sleeve of 10	400	3104	58355
PI0952	Dome	65mm	15mm	3	Sleeve of 10	400	3104	58355
PI0953	Dome	65mm	14.8mm	0	Sleeve of 10	400	3104	58355



- Smooth surface provides uniform and gentle streaking without damaging the gel surface.
- Polygonal shaft improves grip, assists orientation and makes operation easy.
- Option to choose from different needle styles.
- Available in individual wrapped pack and zip lock sleeve that eliminates the risk of contamination.
- Sterile loops have been validated according to ISO 11137 for SAL 10<sup>-6</sup>



Code	Capacity	Colour	Length	Packing	No./case	Price/case (₹)
PI0977	1µl loop	White	200 mm	Sleeve of 10	500	3057
PI0978	1µl loop	White	200 mm	Individually Wrapped	500	4372
PI0979	10µl loop	Blue	200 mm	Sleeve of 10	500	3057
PI0980	10µl loop	Blue	200 mm	Individually Wrapped	500	4372
PI0985	1µl loop + Incorporated Needle	White	200 mm	Sleeve of 10	500	3057
PI0986	1µl loop + Incorporated Needle	White	200 mm	Individually Wrapped	500	4372
PI0987	10µl loop + Incorporated Needle	Blue	200 mm	Sleeve of 10	500	3057
PI0988	10µl loop + Incorporated Needle	Blue	200 mm	Individually Wrapped	500	4372



“ Handy, clear transparent ”

Organization: NRCE

★★★★★ Average Rating 5.0

Ease of Use ★★★★★

Application Area: Bacteriology

After Sales Service ★★★★★

Petri dish of abdos is handy, transparent, value of money

Value for Money ★★★★★

Review Date: 16 Jun 2023 | Abdos

## 86 CALIBRATED SOFT INOCULATION LOOP, HIPS

NEW

- Calibrated inoculation loop confirms the accuracy as per Evans Blue Dye (EBD) Method described by the American Society for Micro Biology.
- Acceptable tolerance  $\pm 10\%$ .
- Calibration certificate will be provided with each case.

STERILE R SAL 10<sup>-6</sup>

Code	Capacity	Colour	Length	Packing	No./case	Price/case (₹)
PI1977	1µl loop	White	200 mm	Sleeve of 10	500	3363
PI1978	1µl loop	White	200 mm	Individually Wrapped	500	4809
PI1979	10µl loop	Blue	200 mm	Sleeve of 10	500	3363
PI1980	10µl loop	Blue	200 mm	Individually Wrapped	500	4809
PI1985	1µl loop + Incorporated Needle	White	200 mm	Sleeve of 10	500	3363
PI1986	1µl loop + Incorporated Needle	White	200 mm	Individually Wrapped	500	4809
PI1987	10µl loop + Incorporated Needle	Blue	200 mm	Sleeve of 10	500	3363
PI1988	10µl loop + Incorporated Needle	Blue	200 mm	Individually Wrapped	500	4809

## 87 DUO LOOP, HIPS

NEW

- Unique DuoLoop design gives flexibility to use 1µl from one side and 10µl from the other.
- Sterile loops have been validated according to ISO 11137 for SAL 10<sup>-6</sup>

STERILE R SAL 10<sup>-6</sup>

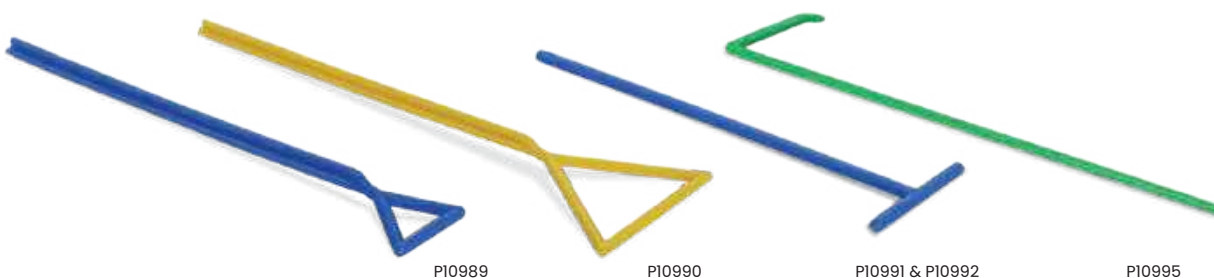
Code	Capacity	Colour	Length	Packing	No./case	Price/case (₹)
PI0981	DuoLoop, 1µl loop + 10µl loop	Green	200 mm	Sleeve of 10	500	3245
PI0982	DuoLoop, 1µl loop + 10µl loop	Green	200 mm	Individually Wrapped	500	4630

## 88 CELL SPREADER GAMMA RADIATED STERILE

- Cell spreaders are designed to spread and disperse liquid onto the surface of an agar or any media plate without gouging or cutting the medium.
- Available in Triangular (PP), T-shaped & L-shaped (HIPS).
- Sterile Cell Spreader has been validated according to ISO 11137 for SAL 10<sup>-6</sup>

STERILE R SAL 10<sup>-6</sup>

Code	Shape	Length	Blade Width	Colour	Packing	No./case	Price/case (₹)
PI0989	Triangle Shaped	215 mm	30 mm	Blue	Individually Wrapped	100	2537
PI0990	Triangle Shaped	240 mm	60 mm	Yellow	Individually Wrapped	100	3781
PI0991	T - Shaped	140 mm	35 mm	Blue	Individually Wrapped	400	8483
PI0992	T - Shaped	140 mm	35 mm	Blue	Sleeve of 10	500	9867
PI0995	L - Shaped	145 mm	37.5 mm	Green	Individually Wrapped	400	6232
PI0996	L - Shaped	145 mm	37.5 mm	Green	Sleeve of 10	500	4314



PI0989

PI0990

PI0991 &amp; PI0992

PI0995

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## 89 PETRI DISH STAND, ACRYLIC

- The simple design can hold and secure glass and plastic petri-dishes.
- This stand makes transport safe and easier.
- Clear racks give the visibility to check culture during incubation.



Code	Places	Size (L x W x H)	Compatible Petridish	No./case	Price/case (₹)
PI0970	28	206 x 105 x 250mm	90mm	1	2334



## 90 SWIRLEX - HANDHELD HOMOGENIZER

- ABDOS Swirlex - Handheld Homogenizer is a powerful handheld homogenizer designed to rapidly homogenize, disperse and disintegrate biological samples in 10-30 seconds with adjustable speed ranging from 8,000 rpm up to 32,000 rpm.
- The homogenizer is ideal to use with samples from 0.1ml to 250ml with three types of generator probes available for different sample volume range.
- It is lightweight, can be held with one hand and also mounted to a stand for fatigue-free and longer operation. Complete homogenization of tissues (muscle, liver, breast tissue, etc.) is generally achieved in a few seconds.
- Autoclavable generator shaft is made up of 316L stainless steel Interchangeable generator probes that are easily disassembled for clean-up.
- Optional H-type stand with adjustable height and angle available for more convenient and lengthier operation.

Swirlex - Hand Held Homogenizer				
Code	Product	Volume Range	No./case	Price/case (₹)
E12410	Swirlex-Hand Held Homogenizer with Dispersing shaft Supporting for volume 0.1-50 ml & Support Stand	0.1-50 ml	1	115155
E12420	Swirlex-Digital Hand Held Homogenizer with Dispersing shaft Supporting for volume 1-250 ml & Support Stand	1-250 ml	1	119548

Spare Accessories				
Code	Product	Shaft	No./case	Price/case (₹)
E12411	Dispersing Shaft - Length-90mm, process volume- 0.1-50 ml	5 mm	1	58576
E12413	Dispersing Shaft - Length-150mm, process volume-1-250 ml	10 mm	1	64566
E12415	Support Stand	-	1	39938

### SPECIFICATIONS :

Voltage	220-240 V
Frequency	50-60 Hz
Motor Type Universal Motor	AC Carbon Brush Motor
Speed range	8000-32000 rpm
Max. Linear Velocity	6.3m/sec or 14m/sec
Speed Level	10 Stage
Working Volume (ml, H <sub>2</sub> O)	0.1-50 ml (5mm Dispersing Shaft-E12411) 1-250 ml (10mm Dispersing Shaft-E12413)
Maximum Viscosity	5,000 mPas
Material of Dispersing Shaft	SS 316L Stainless steel, PTFE
Weight	0.54 kg
Dimension (W x D x H)	45 x 55 x 190 mm
Noise	72 dB
Permissible ambient Temperature	5-40°C
Permissible relative humidity	85%
Protection Class	IP20





Improving quality  
automatically improves results  
as well as productivity

# 05

## Cell Culture

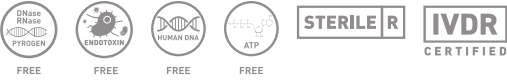
Cell Culture: Flasks, Plates & Dishes  
Bio Reaction Tubes  
Roller Bottles & Media Bottles  
Biofill – Filtration System



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- Treated Cell culture flasks are made from high-quality virgin polystyrene.
- Options available for Tissue Culture Treated and Non-Treated.
- Treated culture flasks have undergone vacuum plasma treatment to assure uniform growth.
- Flat highly transparent polysterene surface for distortion-free observation.
- Angled neck for easy access to the corner of the flask.
- Frosted writing area with clear moulded graduation marking.
- Designed with precision for stackable stability.
- Culture flask with breathable vented cap membrane 0.22 um, hydrophobic filter ensures gas exchange without contamination.
- Sterilized by E-beam, Sterile culture flask has been validated according to ISO 11137.



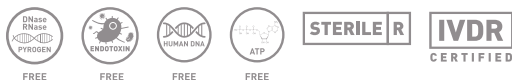
Code	Capacity	Cap Style	Cell Growth Area	Recommended Medium Volume	Tissue Culture Treated	No. / Pack	No./case	Price/case (₹)
P21010	50 ml	Sealed Cap	25 cm <sup>2</sup>	5 ml - 7.5 ml	Yes	10	200	11273
P21011	50 ml	Vent Cap	25 cm <sup>2</sup>	5 ml - 7.5 ml	Yes	10	200	12846
P21012	250 ml	Sealed Cap	75 cm <sup>2</sup>	15 ml - 22.5 ml	Yes	5	100	11010
P21013	250 ml	Vent Cap	75 cm <sup>2</sup>	15 ml - 22.5 ml	Yes	5	100	12846
P21014	750 ml	Sealed Cap	175 cm <sup>2</sup>	35 ml - 52.5 ml	Yes	5	40	8224
P21015	750 ml	Vent Cap	175 cm <sup>2</sup>	35 ml - 52.5 ml	Yes	5	40	9175
P21016	950 ml	Sealed Cap	225 cm <sup>2</sup>	45 ml - 67.5 ml	Yes	5	25	9876
P21017	950 ml	Vent Cap	225 cm <sup>2</sup>	45 ml - 67.5 ml	Yes	5	25	12266
P22010	50ml	Sealed Cap	25 cm <sup>2</sup>	5 ml - 7.5 ml	No	10	200	12063
P22011	50ml	Vent Cap	25 cm <sup>2</sup>	5 ml - 7.5 ml	No	10	200	13744
P22012	250ml	Sealed Cap	75 cm <sup>2</sup>	15 ml - 22.5 ml	No	5	100	11781
P22013	250ml	Vent Cap	75 cm <sup>2</sup>	15 ml - 22.5 ml	No	5	100	13744
P22014	750ml	Sealed Cap	175 cm <sup>2</sup>	35 ml - 52.5 ml	No	5	40	8640
P22015	750ml	Vent Cap	175 cm <sup>2</sup>	35 ml - 52.5 ml	No	5	40	9818
P22016	950ml	Sealed Cap	225 cm <sup>2</sup>	45 ml - 67.5 ml	No	5	25	10568
P22017	950ml	Vent Cap	225 cm <sup>2</sup>	45 ml - 67.5 ml	No	5	25	13125



Both vent and plug seal caps are available

## 92 CELL CULTURE PLATES, PS, TREATED AND NON-TREATED

- Abdos Tissue culture treated plates are made from the highest quality virgin polystyrene.
- Plates are designed with a low profile & low evaporation rate ensuring no loss of samples.
- Vital gaps on the bottom corners of each plate eliminate scraping of the microscopic lens.
- Option available for Tissue culture treated and Non-Treated.
- Treated plates have vacuum plasma treatment to ensure uniform growth.
- Easy to peel-open and individually wrapped blister pack.
- Sterilized by E-beam, Sterile plates have been validated according to ISO 11137.

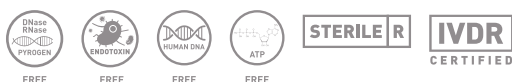


Code	No. of well	Cell Growth Area	Bottom shape	Recommended Medium Volume	Tissue Culture Treated	No./case	Price/case (₹)
P21020	6	9.5 cm <sup>2</sup>	Flat	1.90 ml - 2.90 ml	Yes	50	6687
P21021	12	3.6 cm <sup>2</sup>	Flat	0.76 ml - 1.14 ml	Yes	50	7022
P21022	24	1.9 cm <sup>2</sup>	Flat	0.38 ml - 0.57 ml	Yes	50	7022
P21023	48	0.88 cm <sup>2</sup>	Flat	0.19 ml - 0.28 ml	Yes	50	7559
P21024	96	0.32 cm <sup>2</sup>	Flat	0.10 ml - 0.20 ml	Yes	100	13068
P21025	96	0.32 cm <sup>2</sup>	U	0.10 ml - 0.20 ml	Yes	100	16055
P21026	96	0.32 cm <sup>2</sup>	V	0.10 ml - 0.20 ml	Yes	100	16055
P22020	6	9.5 cm <sup>2</sup>	Flat	1.90 ml - 2.90 ml	No	50	7156
P22021	12	3.6 cm <sup>2</sup>	Flat	0.76 ml - 1.14 ml	No	50	7514
P22022	24	1.9 cm <sup>2</sup>	Flat	0.38 ml - 0.57 ml	No	50	7514
P22023	48	0.88 cm <sup>2</sup>	Flat	0.19 ml - 0.28 ml	No	50	8089
P22024	96	0.32 cm <sup>2</sup>	Flat	0.10 ml - 0.20 ml	No	100	13594
P22025	96	0.32 cm <sup>2</sup>	U	0.10 ml - 0.20 ml	No	100	17178
P22026	96	0.32 cm <sup>2</sup>	V	0.10 ml - 0.20 ml	No	100	17178



## 93 CELL CULTURE DISH, PS

- Culture dishes are ideal for all types of culturing where microscopic observation is required.
- Dishes have been treated with vacuum plasma to ensure uniform growth.
- Highly Flat clear polystyrene surface for distortion-free observation.
- Sterilized by E-beam, Sterile culture dish has been validated according to ISO 11137.



Code	Diameter	Height	Cell Growth Area	Recommended Medium Volume	No. / Pack	No./case	Price/case (₹)
P21030	35 mm	9 mm	9 cm <sup>2</sup>	1.80 ml - 2.70 ml	20	500	8698
P21031	60 mm	12 mm	21 cm <sup>2</sup>	4.20 ml - 6.30 ml	20	500	10705
P21032	100 mm	17.7 mm	55 cm <sup>2</sup>	11 ml - 16.50 ml	20	300	12712
P21033	150 mm	23.1 mm	152 cm <sup>2</sup>	30.40 ml - 45.60 ml	5	100	13346



## 94 CELL SCRAPER, PP/HIPS

- Abdos Cell Scrapers blades are made for HIPS and handle is made of PP.
- Specially designed with free rotating blade to turn as per required direction.
- Sterilized by E-beam, Sterile cell scrapers have been validated according to ISO 11137.



## APPLICATION

P21040 - T-25/ T-75 Cell Culture flasks, 60 mm cell culture dish

P21041 - T-75/ T-175/ T-225 Cell Culture flasks, 150 mm cell culture dish

Code	Length	Blade Width	No./case	Price/case (₹)
P21040	220 mm	13 mm	100	10193
P21041	280 mm	20 mm	100	12709



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## 95 ROLLER BOTTLES, PS

- Roller bottles made from the highest quality Polystyrene suitable for high yield of cell growth and multiplication.
- These bottles are available in 3 volumes of 1000ml, 2000ml, 5000ml with wide cell growth area of 490cm<sup>2</sup>, 850cm<sup>2</sup>, 1900cm<sup>2</sup> for adhesions and huge growth volume for cell suspension.
- Suitable for all the general instruments and automation used in tissue/ cell culture technique.
- Sterilized by Gamma irradiation, sterile roller bottles have been validated according to ISO 11137.



Code	Capacity	Cap Style	Cell Growth Area	Recommended Medium Volume	Surface treated	No./case	Price/case (₹)
P21060	1000 ml	Sealed	490 cm <sup>2</sup>	100 ml - 150 ml	Yes	24	13339
P21061	1000 ml	Vent	490 cm <sup>2</sup>	100 ml - 150 ml	Yes	24	14431
P21062	1000 ml	Sealed	490 cm <sup>2</sup>	100 ml - 150 ml	No	24	10914
P21063	1000 ml	Vent	490 cm <sup>2</sup>	100 ml - 150 ml	No	24	12005
P21064	2000 ml	Sealed	850 cm <sup>2</sup>	180 ml - 260 ml	Yes	12	7640
P21065	2000 ml	Vent	850 cm <sup>2</sup>	180 ml - 260 ml	Yes	12	8004
P21066	2000 ml	Sealed	850 cm <sup>2</sup>	180 ml - 260 ml	No	12	7155
P21067	2000 ml	Vent	850 cm <sup>2</sup>	180 ml - 260 ml	No	12	7519
P21068	5000 ml	Sealed	1900 cm <sup>2</sup>	300 ml - 400 ml	Yes	12	8974
P21069	5000 ml	Vent	1900 cm <sup>2</sup>	300 ml - 400 ml	Yes	12	9945

## 96 BIO REACTION TUBES, PP

- Bio-Reaction tubes are manufactured with high purity virgin Class VI Medical grade polypropylene (PP) conforming to US FDA 21 CFR, free from natural rubber & heavy metal.
- Convenient and economical option for small scale, high density suspension cell culture and are ideal for biological reaction experiments.
- Harvested cells can be directly centrifuged through bioreaction tubes.
- These tubes consist of ultrasonically welded 0.22 µm hydrophobic membrane to allow gas exchange.
- These tubes come with a large frosted area and engraved graduation.
- These tubes are ideal for culture and centrifuge applications. 15ml tubes can withstand maximum RCF 18,000\*g, 50ml conical bottom can withstand 18,000\*g RCF & 50 ml self-standing tube can withstand RCF 7000\*g



Code	Capacity	Bottom	No. / Pack	No./case	Price/case (₹)
P21070	15 ml	Conical	10	100	4700
P21071	50 ml	Conical	10	100	7000
P21072	50 ml	Self-standing	10	100	7300

- Ideal for all shaker & suspension cell culture applications, media preparation, mixing, liquid handling, and storage.
- Baffled or Plain bottom to suit needs for improving aeration or reducing shear stress.
- HDPE Cap Option for Sealed and Vent for adequate gas exchange
- 0.2µm membrane filter for sterile gas exchange, can effectively prevent microbes in and out, prevent pollution, and ensure the gas exchange, making the cells or bacteria grow well.
- Moulded graduation for accuracy and quick volume check.
- Volume options – 125/250/500/1000ml.
- Individually wrapped and sterilized by gamma irradiation SAL10<sup>-6</sup>.



STERILE R

## Erlenmeyer Flasks, PC

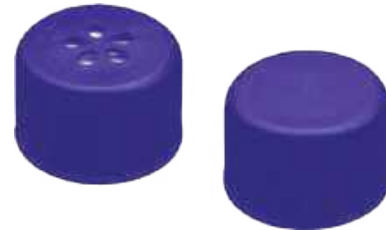
Code	Capacity	Cap Style	Base Style	Qty/Case	Price/Case (₹)
P21200	125ml	Sealed	Flat	24	7440
P21201	125ml	Vent	Flat	24	8520
P21202	250ml	Sealed	Flat	12	4380
P21203	250ml	Vent	Flat	12	4944
P21204	500ml	Sealed	Flat	12	5520
P21205	500ml	Vent	Flat	12	6204
P21206	1000ml	Sealed	Flat	12	9060
P21207	1000ml	Vent	Flat	12	9900
P21212	125ml	Sealed	Baffled	24	7440
P21213	125ml	Vent	Baffled	24	8520
P21214	250ml	Sealed	Baffled	12	4620
P21215	250ml	Vent	Baffled	12	5016
P21216	500ml	Sealed	Baffled	12	7500
P21217	500ml	Vent	Baffled	12	6540
P21218	1000ml	Sealed	Baffled	12	9960
P21219	1000ml	Vent	Baffled	12	11016

## Erlenmeyer Flasks, PETG

Code	Capacity	Cap Style	Base Style	Qty/Case	Price/Case (₹)
P21220	125ml	Sealed	Flat	24	7440
P21221	125ml	Vent	Flat	24	8520
P21222	250ml	Sealed	Flat	12	4380
P21223	250ml	Vent	Flat	12	4980
P21224	500ml	Sealed	Flat	12	5520
P21225	500ml	Vent	Flat	12	6240
P21226	1000ml	Sealed	Flat	12	8640
P21227	1000ml	Vent	Flat	12	9480



500 ml (Flat)



Vent &amp; Sealed Caps



1000 ml



500 ml



250 ml



125 ml

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- Best suited for packaging, shipping & storing liquid media, buffers and sera.
- Wide volume options – 60/125/250/500/1000 ml.
- Two polymer variants Polyethylene Terephthalate Glycol co-polyester (PETG)/ providing impact resistance and excellent gas-barrier properties and Polyethylene Terephthalate (PET) offering more optical clarity & increased inertness.
- Square shape easy to hold and saves shelf & counter space compared with round bottles of the same volume.
- Narrow-mouth bottles provide better control when pouring and all come with the liquid leak proof guarantee.
- Temperature Operational Range: - 80° C to 60° C.
- Non-pyrogenic and non-cytotoxic to protect cells.
- Molded-in embossed graduations.
- Closure is high density polyethylene (HDPE).



125 ml

## Media Bottles PETG

Code	Capacity	Cap	Sterile	No./pack	Price/case (₹)
P21170	60 ml	Yes	No	192	26995
P21171	125 ml	Yes	No	96	19608
P21172	250 ml	Yes	No	60	15162
P21173	500 ml	Yes	No	48	17145
P21174	1000 ml	Yes	No	24	11468
P21180	60 ml	Yes	Yes	192	28416
P21181	125 ml	Yes	Yes	96	20640
P21182	250 ml	Yes	Yes	60	15960
P21183	500 ml	Yes	Yes	48	18048
P21184	1000 ml	Yes	Yes	24	12072

## Media Bottles PETG - Individually Wrapped

Code	Capacity	Cap	Sterile	No./pack	Price/case (₹)
P21192	60 ml	Yes	Yes	192	34668
P21193	125 ml	Yes	Yes	80	20984
P21194	250 ml	Yes	Yes	60	19471
P21195	500 ml	Yes	Yes	48	22019
P21196	1000 ml	Yes	Yes	40	24546

## Media Bottles PET

Code	Capacity	Cap	Sterile	No./pack	Price/case (₹)
P21176	125 ml	Yes	No	96	14706
P21177	250 ml	Yes	No	224	42454
P21178	500 ml	Yes	No	80	21432
P21179	1000 ml	Yes	No	40	14335
P21186	125 ml	Yes	Yes	96	15480
P21187	250 ml	Yes	Yes	224	44688
P21188	500 ml	Yes	Yes	80	22560
P21189	1000 ml	Yes	Yes	40	15090



1000 ml



500 ml



250 ml



125 ml



60 ml

- Biofill Bottle Top Filtration System is available as a Full Assembly or as a bottle top Funnel.
- Biofill Bottle Top Filtration Systems are disposable, sterile, vacuum operated systems for the sterile preparation of buffers, tissue culture media, microbiological media, and other biological fluids.
- Systems are available with asymmetric 0.1 µm, 0.22 µm & 0.45 µm PES membranes.
- PES membrane has low protein binding and is surfactant-free.
- The complete unit includes membrane filter, graduated funnel of clear polystyrene with polyethylene neck adaptor & polystyrene reservoir bottle with a separate sterile polyethylene cap.
- Large knurls on the reservoir bottle cap for easy screw
- Reservoir bottles features easy grip sides for improved handling.
- Detergent free, tissue culture compatible & heat sealed to the support grid to maximize flow rate, reducing foam & denaturation.
- Each unit is individually packed & gamma irradiated.
- Certified Non- Pyrogenic



#### BIOFILL Bottle Top Funnel

Code	Product Description	Funnel capacity Volume	GL Size/Threads	Filter Pore Size	Membrane Diameter	No./case	Price/case (₹)
P21101	250ml Funnel Only with 0.2 µm PES Membrane	250 ml	45	0.2 µm	66 mm	24	11118
P21102	500ml Funnel Only with 0.2 µm PES Membrane	500 ml	45	0.2 µm	66 mm	24	14137
P21103	1000ml Funnel Only with 0.2 µm PES Membrane	1000 ml	45	0.2 µm	90 mm	24	16154
P21104	250ml Funnel Only with 0.1 µm PES Membrane	250 ml	45	0.1 µm	90 mm	24	13260
P21105	500ml Funnel Only with 0.1 µm PES Membrane	500 ml	45	0.1 µm	66 mm	24	16372
P21106	1000ml Funnel Only with 0.1 µm PES Membrane	1000 ml	45	0.1 µm	90 mm	24	18334
P21107	250ml Funnel Only with 0.45 µm PES Membrane	250 ml	45	0.45 µm	90 mm	24	11118
P21108	1000ml Funnel Only with 0.45 µm PES Membrane	1000 ml	45	0.45 µm	90 mm	24	14137
P21109	1000ml Funnel Only with 0.45 µm PES Membrane	1000 ml	45	0.45 µm	90 mm	24	16154

#### BIOFILL Bottle Top Filtration System

Code	Product Description	Funnel capacity Volume	Receiver Capacity Volume	Filter Pore Size	Membrane Diameter	No./case	Price/case (₹)
P21090	250ml, 0.2µm High Flow PES Bottle Top Filter Full Assembly, Sterile	250 ml	250 ml	0.2 µm	66 mm	12	8180
P21091	500ml, 0.2µm High Flow PES Bottle Top Filter Full Assembly, Sterile	500 ml	500 ml	0.2 µm	90 mm	12	11500
P21092	1000ml, 0.2µm High Flow PES Bottle Top Filter Full Assembly, Sterile	1000 ml	1000 ml	0.2 µm	90 mm	12	13000
P21093	250ml, 0.45µm High Flow PES Bottle Top Filter Full Assembly, Sterile	250 ml	250 ml	0.45 µm	66 mm	12	8180
P21094	500ml, 0.45µm High Flow PES Bottle Top Filter Full Assembly, Sterile	500 ml	500 ml	0.45 µm	90 mm	12	11500
P21095	1000ml, 0.45µm High Flow PES Bottle Top Filter Full Assembly, Sterile	1000 ml	1000 ml	0.45 µm	90 mm	12	13000
P21096	250ml, 0.1µm High Flow PES Bottle Top Filter Full Assembly, Sterile	250 ml	250 ml	0.1 µm	66 mm	12	10100
P21097	500ml, 0.1µm High Flow PES Bottle Top Filter Full Assembly, Sterile	500 ml	500 ml	0.1 µm	90 mm	12	13000
P21098	1000ml, 0.1µm High Flow PES Bottle Top Filter Full Assembly, Sterile	1000 ml	1000 ml	0.1 µm	90 mm	12	15880

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Quality is a collective responsibility from the supplier to the user

# 06

## PCR Techniques

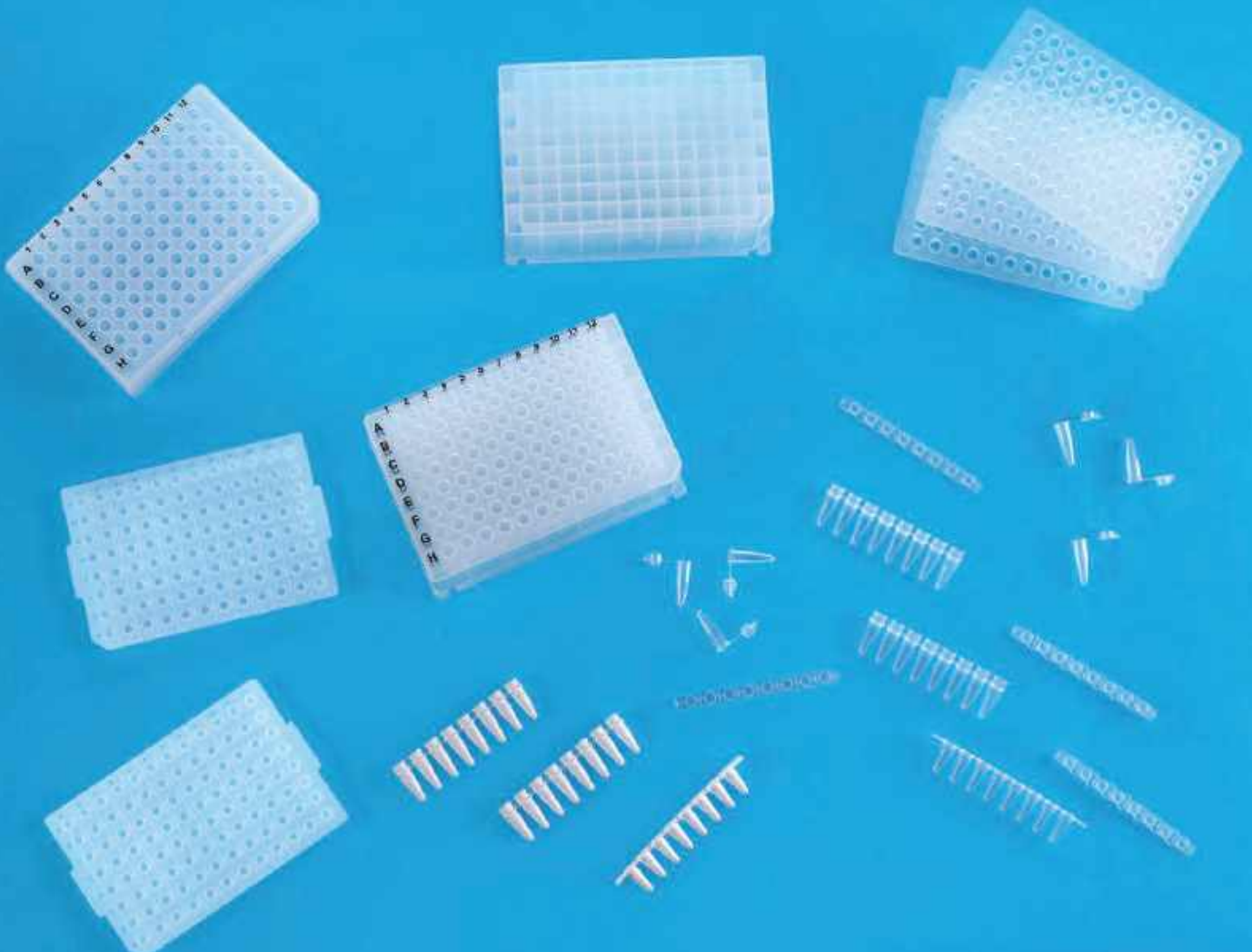
AmpQlear™ PCR Tubes

AmpQlear™ PCR Strip Caps & Strip Tubes

PCR Plates

PCR Sealing Films & Workstation

Deep Well Plates & Accessories



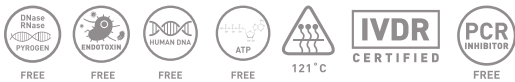
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100 AMPQLEAR™ PCR TUBES, PP

NEW

- PCR tubes are made of high purity virgin USP Class VI Medical grade polypropylene (PP) conforming to US FDA 21 CFR, free from natural rubber and heavy metal.
- Thin and uniform wall thickness to ensure optimal heat transfer reducing insulating effect.
- Attached snap cap with lid. Caps available are in domed & flat shape.
- Snap cap ensures tight fit eliminating risk of sample evaporation.
- Flat caps are optically clear for real time qPCR.



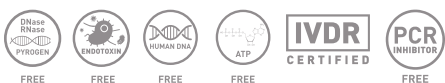
Code	Capacity	Type	Height	No./case	Price/case (₹)
PI0701	0.2 ml	Clear Flat Cap	21.5 mm	1000	1935
PI0702	0.2 ml	Domed Cap	23.16 mm	1000	1985



101 AMPQLEAR™ PCR 8 STRIP TUBES WITHOUT CAP, PP

NEW

- Strip tubes are made of high purity virgin USP Class VI Medical grade polypropylene (PP) conforming to US FDA 21 CFR, free from natural rubber and heavy metal.
- Strip Tubes have uniform thin walls to reduce insulating effect on the strips.
- Optically clear for real time qPCR.
- Strip Tubes are available in both Standard and low profile wells.



Code	Capacity	Type	Height	No./case	Price/case (₹)
PI0732	0.2 ml	White 8 Strip Standard Tubes	20.7 mm	125 strips	3622
PI0733	0.1 ml	White 8 Strip Low Profile Tubes	15.1 mm	125 strips	4095
PI0706	0.2 ml	8 Strip Standard Tubes	20.7 mm	125 strips	3450
PI0708	0.1 ml	8 Strip Low Profile Tubes	15.1 mm	125 strips	3900



102 AMPQLEAR™ PCR 8 STRIP CLEAR CAPS- FLAT & DOMED, PP

NEW

- PCR strip caps are made of high purity virgin USP Class VI Medical grade polypropylene (PP) conforming to US FDA 21 CFR, free from natural rubber and heavy metal.
- Caps feature ultra-clear surface ideal for fluorescent, luminescent and real time PCR application.
- Optically clear caps for real time qPCR.

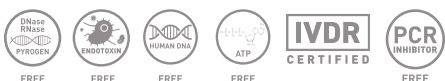


Code	Capacity	Type	No./case	Price/case (₹)
PI0709	0.2 ml & 0.1 ml	8 Strip Cap Flat Optically Clear	125 strips	1975
PI0711	0.2 ml & 0.1 ml	8 Strip Cap Domed	125 strips	1975



103 AMPQLEAR™ PCR 8 STRIP TUBES AND 8 STRIP CAPS, PP

NEW



Code	Capacity	Type	Height	No./case	Price/case (₹)
PI0726	0.1 ml	Combo - Clear 8 Strip Tubes & Optically Clear 8 Strip Flat Caps	16.1 mm	125 strips	5120
PI0729	0.1 ml	Combo - White 8 Strip Tubes & Optically Clear 8 Strip Flat Caps	16.1 mm	125 strips	5376
PI0727	0.2 ml	Combo - Clear 8 Strip Tubes & Optically Clear 8 Strip Flat Caps	20.7 mm	125 strips	4750
PI0728	0.2 ml	Combo - White 8 Strip Tubes & Optically Clear 8 Strip Flat Caps	20.7 mm	125 strips	4987
PI0734	0.2 ml	Combo - Clear 8 Strip Tubes & Optically Clear 8 Strip Domed Caps	23.16 mm	125 Strips	4750
PI0735	0.1 ml	Combo - Clear 8 Strip Tubes & Optically Clear 8 Strip Domed Caps	17.76 mm	125 Strips	5120
PI0736	0.2 ml	Combo - White 8 Strip Tubes & Optically Clear 8 Strip Domed Caps	23.16 mm	125 Strips	4987
PI0737	0.1 ml	Combo - White 8 Strip Tubes & Optically Clear 8 Strip Domed Caps	17.76 mm	125 Strips	5376



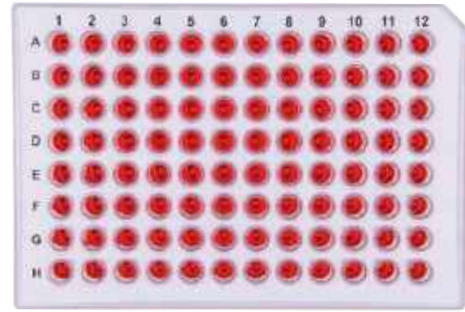
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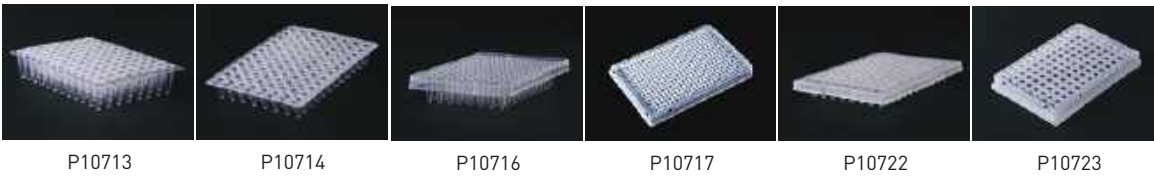
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## 104 PCR PLATES FAMILY, PP

- PCR plates made of high purity virgin USP Class VI Medical grade polypropylene (PP) conforming to US FDA 21 CFR, free from natural rubber and heavy metal.
- Ultra thin and consistent wall thickness allows precise thermal transfer.
- Maximum G-Force 4000 RCF.
- Improve light capture in fluorescent assays.
- Compatibility with a wide variety of sealing systems.



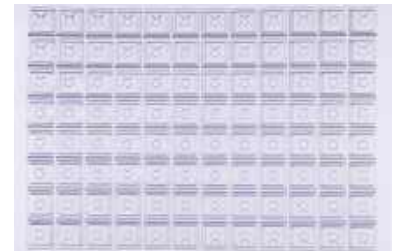
Code	Product	Type	No./case	Price/case (₹)
P10713	96 Well standard well 0.2 ml	Unskirted Standard Well	25 Plates	3965
P10714	96 Well low profile well 0.1 ml	Unskirted Low Profile well	25 Plates	4070
P10722	96 Well semi-skirted low profile well 0.1 ml	Semi-Skirted low profile	25 Plates	5125
P10716	96 Well semi-skirted standard well 0.2 ml	Semi - Skirted Standard Well	10 Plates	2075
P10723	96 Well fully skirted low profile well 0.1 ml	Fully-Skirted Low Profile Well	10 Plates	3182
P10717	384 Well fully skirted well	Fully - Skirted Well	10 Plates	4155



## 105 SEALING MATS, SILICONE

- These mats are made of silicone rubber and designed to seal the plates
- The mat is made up of 96 plugs & 384 plugs.
- The mat has to be compressed. A plug that caps the individual well seals each well on the PCR plate.
- Sealings mats silicone are autoclavable.

Code	Type	No./case	Price/case (₹)
P10721	Silicone Sealing Mats for 96 wells	50 mats	11000
P10731	Silicone Sealing Mats for 384 wells	50 mats	11900



## 106 SEALING FILMS, POLYESTER

- Sealing films are optically clear and are suitable for use in real-time PCR applications and PCR plates.
- The film is press fit and sticks to the plate.
- Sealing films are disposable and for single use only.
- Temperature withstanding range from -70 degree Celsius to +100 degree Celsius.

Code	Type	No./case	Price/case (₹)
P10718	Clear Seal Film	100 sheets	13350



## 107 SEALING FILMS, ALUMINIUM

- Opaque in nature therefore the sample is not visible inside the plate wells. The film is adhesive coated and sticks to the plate.
- These films are readily pierceable either by manual pipette or by liquid handling robot.

Code	Type	No./case	Price/case (₹)
P10719	Silver Seal	100 sheets	8880





- All Abdos Deep Well Plates conform to SBS International Standard and are compatible with most of the pipette workstations and extraction systems available
- Compatible with many applications such as HTS assays, sample storage, Nucleic acid extraction, sample preparation, elution, and liquid handling stations
- Compatible with multi-channel compatible pipettes, Automatic Liquid Handling Stations and Nucleic acid extraction systems
- 96 well plates come in square and round wells with Conical and round bottoms
- The range includes high and low-profile Deep Well plates in different formats, Comb, Silicone mats, and reservoirs
- Manufactured in a state-of-the-art precision mold facility from USP class VI medical grade virgin polypropylene conforming USFDA 21CFR, free from natural rubber and heavy metals
- Temperature range: -80°C to 121°C
- Centrifugal strength up to 3000g
- Alphanumeric marking for easy identification
- Low extractables & leachable



P10802



P10803



P10808



Code	Capacity	Type	No./case	Price/case (₹)
P10802	2.2ml	96 Square Well, Round Conical Bottom ("V")	50	13000
P10808	-	96 Magnetic Tip Comb for Suitable for P10802	100	28500
P10809	0.5ml	96 Square Well Conical ("V") Bottom (200µl Elution Plate) Deep Well Plate	50	4500
P10810	2.0ml	96 Round Well, Round ("U") Bottom Deep Well Plate	50	13700
P10811	1.0ml	96 Round Well, Round ("U") Bottom Deep Well Plate	50	17500
P10803	1.2ml	96 Square Well, Conical ("V") Bottom, Deep Well Plate	100	24000

### DEEP WELL PLATE COMPATIBILITY CHART

#### Automated Liquid Handling Stations

#### Automated Nucleic Acid Extractor / Purification Systems

Automated Liquid Handling Stations	P10802	P10808	P10809	P10810	P10811	P10803
Hamilton Liquid Handlers				✓	✓	✓
Dr. Oligo Bioytic				✓	✓	✓
Spexs Agriprep Homogenizers Genogrinders.				✓	✓	✓
Opentrons Robotic Liquid Handlers				✓	✓	✓
Beckman Biomek iGenius				✓	✓	✓
Beckman Biomek 4000				✓	✓	✓
Beckman Biomek i7				✓	✓	✓
Beckman Biomek i5				✓	✓	✓
Tecan Freedom Evo				✓	✓	✓
Tecan Fluent				✓	✓	✓
Perkinelmer Chemagic 360				✓	✓	✓
Caliper Perkin Elmer Zephyr G3				✓	✓	✓
Caliper Perkin Elmer Seldone G3				✓	✓	✓
Caliper Perkin Elmer Janus				✓	✓	✓
Eppendorf Ep Motion				✓	✓	✓
Roche Magnapure 96				✓	✓	✓
Roche Magnapure 24				✓	✓	✓
Epigenetik magnetic EPI Mag HT				✓	✓	✓
Waters Oasis Plate Manifest				✓	✓	✓
Ultravap Mistral Systems				✓	✓	✓
Perkin Clarus SQ 8C GC/MS Sample Prep				✓	✓	✓
Shimadzu LC/MS Sample Prep				✓	✓	✓
Agilent Infinity HPLC Sample Prep				✓	✓	✓
Qiagen Filtration Qiavac 96				✓	✓	✓
MN Filtration chromabond multi		✓				✓
<b>Abdos Codes</b>	<b>P10802</b>	<b>P10808</b>	<b>P10809</b>	<b>P10810</b>	<b>P10811</b>	<b>P10803</b>
Thermo Kingfisher APEX	✓	✓				
Thermo Kingfisher FLEX Presto 32/96	✓	✓				
Thermo Kingfisher Presto 24/ 96	✓	✓				
Alisheng auto PURE-96	✓	✓				
Zybio EXM6000 96	✓	✓				
Himedia InstanX Mag 96	✓	✓				
Q line Biotech POCT services Q Xtra 96	✓	✓				
Trangene biotech TS 96	✓	✓				
Geneix Purifier HT 96	✓	✓				
Biovopeak NAE-0196	✓	✓				
BIOER GenePure Pro 96	✓	✓				
MGI SP-NE32	✓	✓				
MGISP-NE384	✓	✓				
Biobase HS 96	✓	✓				
Tiagen OSE-S96-01 96	✓	✓				
Lepu medical Nexor 96	✓	✓				
TIAGEN 192 SAMPLE S-96	✓	✓				
Geneunion BPEX-96	✓	✓				

## 109 REAGENT RESERVOIR, PP

- Reagent reservoir provides a stable platform for various pipetting steps and procedures during repetitive liquid transfer.
- 12 well reagent reservoir suitable with multichannel pipette
- Standard SBS footprint designed to be robot compatible
- Can be stored at -80°C temperature.



Code	Capacity	Type	No./case	Price/case (₹)
PI0801	180ml (15ml each groove)	12 Channel Troughs Reservoir	25	5375



## 110 SEALING MATS FOR DEEP WELL PLATES FAMILY, SILICONE

- These silicone sealing mats are suitable for square and round deep well plates
- Excellent chemical resistance
- Pierceable for easy penetration and self-closure
- Easy sample access with micropipette, probes, or syringes
- Airtight closure minimizes the sample evaporation



Code	Type	No./case	Price/case (₹)
PI0804	Silicone Mat for 96 Square Well plate, Pierceable	50	14000
PI0805	Silicone Mat for 2.0ml 96 Round Well Plate, Pierceable	50	14000
PI0806	Silicone Mat for 96 Round Well Plate 1.0ml, Pierceable	50	14000
PI0807	Adhesive Sealing Film, Polyester	500	10000



## 111 PCR WORKUP RACK, PP

- Manufactured in state of the art moulding facility using high purity polypropylene.
- These workup racks can be easily stackable.
- These racks can accommodate unskirted, semi-skirted and skirted 96 well PCR plates. It can also accommodate strip PCR tubes.
- Legs at all four corners make it robust and stable for good grip on the surface.
- These racks have Moulded alphanumeric indexing for fast and accurate identification.
- Operating temperature is -80°C to +121°C.
- Available in colours (Red, Green, Yellow, White & Blue).



Code	Tube Capacity	L x W x H	No./case	Price/case (₹)
PI1101	1 x 96 well PCR plates, 96 place for individual PCR tube, 12 x 8-well PCR strips	138 x 98 x 39 mm	5	2643



## 112 PCR WORKSTATION RACK WITH LID, PP

- Manufactured in state of the art moulding facility using high purity polypropylene.
- Easily stackable.
- Can accommodate un-skirted, semi-skirted and skirted 96 well PCR plates, individual PCR tubes and 0.5, 1.5 & 2.0 ml micro centrifuge tubes.
- Alphanumeric indexing for fast and accurate identification.
- Ideal platform for pre and post PCR sampling process.
- Operating temperature is -80°C to +121°C.
- Available in colors (Red, Green, Yellow, White & Blue).



Code	Tube Capacity	L x W x H	No./case	Price/case (₹)
PI1103	24 individual 0.2 ml PCR tubes, 16 x 1.5 or 2.0 ml tubes, 16 x 0.5 ml tubes and 96 well rack for PCR plates	215 x 120 x 50 mm	5	5346



# THERMAL CYCLER COMPATIBILITY GUIDE for ABDOS 96 & 384 Wellplates

Model	0.2 ml 96 well PCR plate Without Skirt Transparent	0.1ml 96-Well PCR plate Without Skirt Transparent	0.1ml 96-Well PCR plate Half Skirt Transparent	0.2ml 96-Well PCR plate Half Skirt Transparent	0.1 ml 96-Well PCR plate Full Skirt Transparent	40ul 384-Well PCR plate Full Skirt Transparent
	P10713	P10714	P10722	P10716	P10723	P10717
<b>Applied Biosystems</b>						
StepOnePlus™ qPCR system		✓				
StepOne™ qPCR system		✓				
Fast 384 ,ABI384						
ViiA™7 fast qPCR 96*0.1ml		✓				
ViiA™7 qPCR system				✓		✓
7500 Fast qPCR system		✓				
7900HT Fast qPCR system						✓
7500 qPCR system	✓			✓		
7900HT qPCR system						
QuantStudio™ 12k Flex Fast						
QuantStudio™ 12k Flex	✓	✓		✓		✓
7300 qPCR system	✓			✓		
7000 ABI PRISM 7000 SDS	✓			✓		
GeneAmp 9700 series						✓
QuantStudio® 3 \Q5\Q6\Q7	✓	✓		✓		✓
QuantStudio® 3 \Q5\Q6\Q7fast						
Veriti 96-Well/Veriti™ Dx 96-Well						
Veriti FAST 96-Well/Veriti™ Dx FAST						
<b>SimpliAmp™</b>						
3130xl Genetic Analyser						✓
3500xl Genetic Analyser						✓
3730xl DNA Analyser						✓
<b>Bio-Rad Laboratories</b>						
CFX96 Real-Time PCR		✓	✓	✓	✓	
iQ5 Real-Time PCR				✓		
iQ Real-Time PCR				✓		
MyiQ Real-Time PCR						
MyiQ2 Real-Time PCR						
Opticon 2		✓	✓			
CFX connect	✓	✓	✓	✓	✓	
T100	✓	✓	✓	✓		
icycler	✓			✓		
C1000/ C1000 Touch	✓	✓	✓	✓	✓	
DNA Engine	✓	✓	✓	✓	✓	
MiniOpticon	✓	✓		✓	✓	
MJ Mini		✓				
PTC-100	✓	✓		✓	✓	
S100	✓	✓		✓	✓	
iCycler				✓		
<b>Eppendorf</b>						
Mastercycler ep realplex	✓	✓	✓	✓	✓	✓
Mastercycler nexus /nexus eco, GSX1					✓	✓
Mastercycler ep gradient	✓	✓	✓	✓	✓	✓
Mastercycler pro/pro S		✓			✓	✓
Thermomixer C	✓	✓	✓	✓		
Thermomixer comfort	✓	✓		✓		
Mastercycler gradient				✓	✓	
<b>Roche</b>						
<b>LightCycler® 480 System 384-well</b>						
LightCycler® 480 System						
LightCycler® 96 System						
<b>Agilent</b>						
Agilent AriaMX		✓				
<b>SureCycler 8800 thermal cycler</b>						
Mx3000P	✓					
Mx3005	✓					
Mx4000	✓					
<b>Analytik Jena/Biometra</b>						
qTower	✓	✓		✓		
Tone96/96G	✓	✓	✓	✓		
Alpha SC	✓	✓	✓	✓		
FlexCycler	✓	✓	✓	✓		
Alpha SC		✓		✓		
TRIO 48	✓			✓		
TRIO Combi		✓		✓		
SpeedCycler 36				✓		
<b>Bioer</b>						
Line-Gene I	✓	✓				
Line-Gene K 48		✓				
Line-Gene 3310/3320	✓	✓				
Line-Gene 9600	✓	✓		✓		
GenePro B	✓	✓		✓	✓	
Life ECO Thermal Cycler		✓		✓		
Life Express		✓		✓		
LifePro TC-96/G/H(b)A		✓		✓		
LifeTouch TC-96/G/H(b)B		✓		✓		
XPcycler TC-XP-	✓			✓		
<b>TaKaRa Bio Inc</b>						
Thermal Cycler Dice TP600		✓		✓		
Thermal Cycler Dice TP650		✓		✓		
Thermal Cycler Dice TP850				✓		
Thermal Cycler Dice TP870				✓		

✓—suitable

Plates to SBS Specifications foot print. Certified Free From DNase, RNase and Detectable DNA. This does not accept any liability or responsibility for information given. PCR is a patented process of Roche Holding

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When we chase perfection,  
we deliver some semblance  
of quality that we can stand for

# 07

## Electrophoresis

Horizontal Units

Vertical Units

Power Supplies

UV Transilluminators



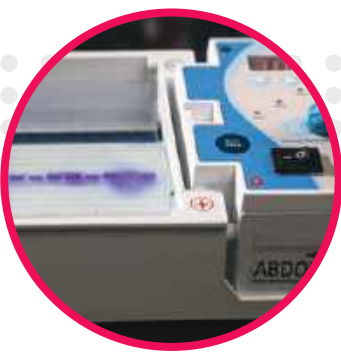
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# “NEW ADDITION”

## ABDOS MINI EP GEL ELECTROPHORESIS

Abdos introduces a highly versatile Mini EP Horizontal Electrophoresis system featuring in-built power supply and horizontal electrophoresis suitable for wide range of nucleic acid electrophoresis applications.



Inbuilt Power Supply



Double Sided Combs



Multiple Gel Trays Option

- Abdos introduces a highly versatile Mini EP Horizontal Electrophoresis system featuring in-built power supply and horizontal electrophoresis suitable for wide range of nucleic acid electrophoresis applications.
- Mini EP is all in one unit which comes with an in-built removable power supply which runs on 35V, 50V & 100V, and horizontal electrophoresis with two sizes of gel trays. Vented safety lid ensures condensation free runs and helps heat dissipation. A timer function with visual and audible alarm of 1-99mins ensures worry free runs without losing the bands.

**SPECIFICATIONS**

Input Power	AC200-240V, 50-60Hz
Output Power	DC35V / DC50V / DC100V
Tank Dimensions (cm)	11 x 12.1 x 4.3cm
Max. Buffer Volume	230ml
Construction of Unit	PC+ABS with high temperature resistance
Timer	1min-99min
Max. Power	40W
Dimensions (cm)	19 x 13 x 6cm

**FEATURES**

- Compact and easy to use design.
- In-built power supply with 35V, 50V & 100V output.
- Leak proof & tape free easy casting.
- 1-99mins timer function.

**INCLUSIONS**

- Power Supply
- Gel Tank
- Safety Lid
- Large Gel Trays – 11x6cm (2 Nos)
- Small Gel Trays – 5.4x6cm (4 Nos)
- Two Nos each 12 & 22 wells double sided combs (For large Tray), 10&18 wells double sided combs (For small tray).
- 2 gel casters for wide and mini gel trays

**ABDOS Mini EP Horizontal Electrophoresis**

Code	Product	No./case	Price/case (₹)
E12000	Mini EP Horizontal Electrophoresis with 11 x 6 cm & 5.4 x 6 cm Gel trays and Inbuilt Power supply	1	47000

**Spare Accessories**

Code	Product Description	No./case	Price/case (₹)
E12001	Gel Tank	1	23000
E12002	Power Supply	1	27000
E12003	Gel Caster, Large	1	2100
E12004	Gel Caster, Mini	1	2100
E12005	Gel Tray, 6x11cm	1	2100
E12006	Gel Tray, 6x5.4cm	1	1900
E12007	Comb 12/22 wells for large tray	1	1200
E12008	Comb 10/18 wells for small tray	1	1200

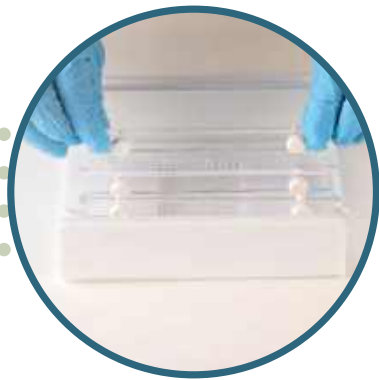
“ **NEW** ADDITION ”

## Abdos Horizontal Range of Electrophoresis

Abdos introduces a complete new range of Horizontal Electrophoresis Systems, Feature rich new designs includes different sizes for wide range of applications.



Thumb Locators



Multiple Gel Trays  
and Comb Options



Standard easy to  
use caster

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# HORIZONTAL ELECTROPHORESIS SELECTION GUIDE

	E12000 Mini EP	E12160 MiniAGE	E12170 MiniWideAGE	E12150 MidiAGE	E12190 MidiLargeAGE	E12200 HTP AGE
<b>UNIT DIMENSIONS (WXLXH)</b>	19x13x6 cm	8.5 x 22 x 6 cm	25x13.5x9.5 cm	31x18.5x9.5 cm	35x25.5x9.5 cm	36x40x8.5 cm
<b>MATERIAL OF CONSTRUCTION</b>	PC+ABS	Acrylic	Acrylic	Acrylic	Acrylic	Acrylic
<b>GEL SIZE (WXL)</b>	6x5.4cm & 6x11cm	7x10cm & 7x7 cm	10 x 10 cm	15x15cm	15x25cm	26x32cm
<b>BUFFER REQUIRED</b>	230ml	250ml	400ml	600ml	800ml	1500ml
<b>MAXIMUM SAMPLE CAPACITY</b>	44 Samples	30 Samples	48 Samples	112 Samples	168 Samples	416 Samples
<b>RECOMMENDED POWER SUPPLY</b>	In-Built	E12377	E12377	E12377	E12377	E12377

## 114 ABDOS MINIAGE HORIZONTAL ELECTROPHORESIS

**NEW**

- Preferred for rapid screening & restriction digestion applications.
- Abdos MiniAGE Horizontal Electrophoresis system comes with a tank that ensures leakproof run and longevity of the systems.
- The system comes with two different sizes of trays – 7x10cm & 7x7cm (WxL) and combs to support a variety of nucleic acid applications.
- Height adjustable combs offer complete control over the depth of the wells and sample loading capacity.
- The system includes a standard caster as well for leak proof gel casting that doesn't require any taping.
- Easy to replace removable electrode casing.

### ABDOS MiniAGE Horizontal Electrophoresis

Code	Product	No./case	Price/case (₹)
E12160	Mini Horizontal Electrophoresis with 7 x 10 cm & 7 x 7cm Gel trays, 1 mm thick 8 & 12 well combs (2 Nos. each), casting unit, connecting chord (1 pair)	1	28000

### Spare Accessories

Code	Product	No./case	Price/case (₹)
E12161	Gel Tray 7 x 10cm	1	3600
E12162	Gel tray 7 x 7cm	1	3400
E12163	8 well comb, 1 mm thick	1	2100
E12164	12 well comb, 1 mm thick	1	2100
E12165	Gel casting unit for 7 x 10 cm & 7 x 7 cm trays	1	3900

## 115 ABDOS MINIWIDEAGE HORIZONTAL ELECTROPHORESIS

**NEW**

- Best choice for users requiring wider but smaller size gels for rapid screening.
- Abdos MiniWideAGE Horizontal Electrophoresis system comes with a tank that ensures leak proof run and longevity of the systems.
- The system comes with a 10x10cm tray (WxL) and combs to support a variety of nucleic acid applications.
- Height adjustable combs offer complete control over depth of the wells and sample loading capacity.
- The system includes a standard caster as well for leak proof gel casting that doesn't require any taping.
- Easy to replace removable electrode casing.

### ABDOS MiniWideAGE Horizontal Electrophoresis

Code	Product	No./case	Price/case (₹)
E12170	Mini Wide Horizontal System includes a Basic unit with Removable Platinum Electrode Assembly, Gel Running tray of 10x10cm (1 No.), 1mm thick 4 combs of 8 & 16 Wells, casting unit & connecting Cord (1 Pair)	1	32500

### Spare Accessories

Code	Product	No./case	Price/case (₹)
E12171	Gel Running Tray 10 X 10Cm	1	3600
E12172	Gel Running Tray 10 X 7Cm	1	3400
E12173	8 Well Height Adjustable Comb 1mm	1	2100
E12174	8 Well Height Adjustable Comb 1.5mm	1	2100
E12175	16 Well Height Adjustable Comb 1mm	1	2200
E12177	16 Well Height Adjustable Comb 1.5mm	1	2200
E12178	Gel Casting Unit for 10 x7 & 10X 10cm Running Tray	1	3900
E12179	Connecting Cord	1 Pair	1500
E12218	Negative Electrode casing with wire & electrode	1	5200
E12219	Positive Electrode casing with wire & electrode	1	5200

## 116 ABDOS MIDGE HORIZONTAL ELECTROPHORESIS

NEW

- Best suited for rapid screening applications for clonal or PCR products, restriction fragment analysis, and other close molecular weight band separation.
- The system comes with a medium size 15x15cm tray (WxL) and combs to support a variety of nucleic acid applications.
- Height adjustable combs offer complete control over the depth of the wells and sample loading capacity.
- The system includes a standard caster for leakproof gel casting that doesn't require any taping.
- Easy to replace removable electrode casing.

## ABDOS MIDGE Horizontal Electrophoresis

Code	Product	No./case	Price/case (₹)
E12150	Midi Horizontal System includes Basic unit with Removable Platinum Electrode Assembly, Gel Running tray of 15x15cm (1 No.), 1mm thick 4 combs of 16 & 20 Wells, casting unit & connecting Cord (1 Pair)	1	42200

## Spare Accessories

Code	Product	No./case	Price/case (₹)
E12181	Gel Running Tray 15X15Cm	1	4200
E12182	Gel Running Tray 15X10Cm	1	4000
E12183	Gel Running Tray 15X7Cm	1	3600
E12184	16 Well Height Adjustable Comb 1mm	1	2700
E12185	20 Well Height Adjustable Comb 1mm	1	2700
E12193	16 Well Height Adjustable Comb 1.5mm	1	2700
E12189	20 Well Height Adjustable Comb 1.5mm	1	2700
E12186	28 Well Height Adjustable Comb 1mm	1	3000
E12194	28 Well Height Adjustable Comb 1.5mm	1	3000
E12187	Gel Casting Tray	1	6000
E12188	Connecting Cord	1 Pair	1500
E12197	Negative Electrode casing with wire & electrode	1	8500
E12198	Positive Electrode casing with wire & electrode	1	8500

## 117 ABDOS MIDILARGEAGE HORIZONTAL ELECTROPHORESIS

NEW

- ABDOS Midi Large is a great choice with wide and long gel lengths offering a high number of sample loading.
- Tray size of 15x25cm (WxL) offers a wide range of applications such as rapid screening of clonal or PCR products and RFLP analysis.
- Height adjustable combs offer complete control over the depth of the wells and sample loading capacity.
- The system includes a standard caster for leakproof gel casting that doesn't require any taping.
- Easy to replace removable electrode casing.

## ABDOS MidilargeAGE Horizontal Electrophoresis

Code	Product	No./case	Price/case (₹)
E12190	Midi Large Horizontal System includes Basic unit with Removable Platinum Electrode Assembly, Gel Running tray of 15 x 25cm (1 No.), 1mm thick 4 combs of 28 Wells, casting unit & connecting Cord (1 Pair)	1	55000

## Spare Accessories

Code	Product	No./case	Price/case (₹)
E12191	Gel Running Tray 15 X 25cm	1	6000
E12184	16 Well Height Adjustable Comb 1mm	1	2700
E12185	20 Well Height Adjustable Comb 1mm	1	2700
E12193	16 Well Height Adjustable Comb 1.5mm	1	2700
E12189	20 Well Height Adjustable Comb 1.5mm	1	2700
E12186	28 Well Height Adjustable Comb 1mm	1	3000
E12194	28 Well Height Adjustable Comb 1.5mm	1	3000
E12195	Gel Casting Tray for 15X 25cm	1	7000
E12196	Connecting Cord	1 Pair	1500
E12197	Negative Electrode casing with wire & electrode	1	8500
E12198	Positive Electrode casing with wire & electrode	1	8500

## 118 ABDOS HTP AGE HORIZONTAL ELECTROPHORESIS

- ABDOS High Throughput Horizontal Electrophoresis offers a longer run length of up to 32cm & 26cm width offering a high number of sample loading.
- Large tray size of 26x32cm (WxL) offers wide range of applications such as rapid screening of clonal or PCR products and RFLP Analysis.
- Multichannel pipette-compatible combs support running a 96-well PCR plate to the tray.
- Height adjustable combs offer complete control over the depth of the wells and sample loading capacity.
- The system includes a standard caster for leakproof gel casting that doesn't require any taping.
- Easy to replace removable electrode casing.

## ABDOS HTP AGE Horizontal Electrophoresis

Code	Product	No./case	Price/case (₹)
E12200	HTP Horizontal System includes a Basic unit with removable Platinum Electrode Assembly, Gel Running tray of 26 x 32cm (1 No.), 1mm thick 6 combs of 28 Wells, casting unit & connecting Cord (1 Pair)	1	87000

## Spare Accessories

Code	Product	No./case	Price/case (₹)
E12207	Gel Running Tray 26 X 32cm	1	9000
E12213	28 Well Height Adjustable Comb 1mm	1	3800
E12208	28 Well Height Adjustable Comb 1.5mm	1	3800
E12209	52 Well Height Adjustable Comb 1mm	1	3800
E12210	52 Well Height Adjustable Comb 1.5mm	1	3800
E12211	Gel Casting Tray for 26 X 32cm	1	9500
E12212	Connecting Cord	1 Pair	1500
E12214	Negative Electrode casing with wire & electrode	1	16200
E12215	Positive Electrode casing with wire & electrode	1	16200

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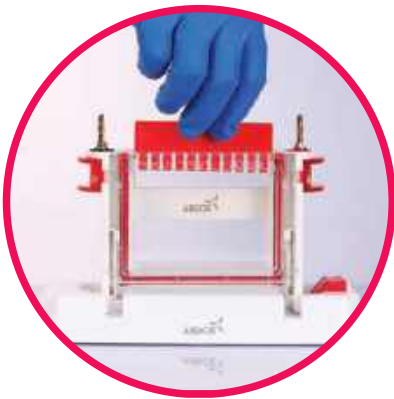
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Abdos Vertical Range of Electrophoresis

**CompactPAGE**

Abdos introduces Mini Moulded Vertical Electrophoresis, **CompactPAGE**, an Innovative and Feature rich design to run all manual PAGE & SDS-PAGE applications.



Screw-free Leak Proof Gel Casting System



Gold Plated Electrodes and Pure Platinum Wire



Specially designed Inner Module for Casting and Running



Single Moulded Tank with Safety lid & Thumb Locators

Please contact CT Enterprises for quotation.

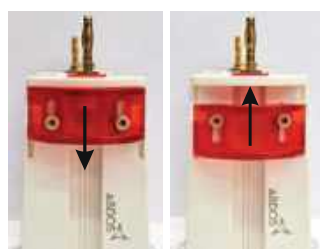
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- The all-new CompactPAGE has a single moulded construction making the system lightweight, enduring, and leakproof.
- CompactPAGE comes with a screw-free innovative module to support running and casting so that users don't have to remove the glass plates after the gel is cast.
- It also has a unique casting system that doesn't give direct pressure on the glass plates, secondly the frame holds the glass plates strong and saves from breakage.
- The easy casting base comes with the system as standard that doesn't require any extra effort on screwing the module and seals it completely for leakproof gel casting.
- Glass plates come with attached spacers to support leakproof gel casting.
- Wide range of combs and spacer plate options.

## CompactPAGE – Innovative & Fast Casting



- Place the inner module on a leveled surface.
- Insert the glass plate set on both sides.



- Pull up the Red side lock to the close the module.



- Place the module set over the casting system.
- Push the side lock to close.



- Load the gel between the glass plates.
- Insert the combs without creating bubbles.
- Leave for solidification.

Model	ABDOS CompactPAGE Mini Moulded Vertical Electrophoresis
Dimensions (LxWxH)	10.8 x 12.5 x 18.5 cm
Construction Material	Polycarbonate
Gel Size (WxH) / Capacity	8.3 x 7.3 cm / 2 Gels
Maximum Buffer Required	500ml (Minimum 300ml)
Electrodes, Wires	Brass with Gold Plating, Platinum
Standard Combs	11 wells – 1 mm & 1.5 mm (2 Nos each)
Standard Spacers	Glass, 1 mm & 1.5 mm attached with plain plates
Maximum Sample Capacity	30 samples
Time Consumed	1.5-2 hours
Recommended Power Supply	E12377

ABDOS CompactPAGE Mini Moulded Vertical Electrophoresis			
Code	Product	No./case	Price/case (₹)
E12300	CompactPAGE Mini Moulded Vertical Electrophoresis System, includes – a running tank, lid, buffer dam plate, casting/running module with electrodes and platinum wires, casting base, 2 sets of glass plates of 1mm & 1.5mm thick attached spacers, 2 sets of 11 well combs of 1mm & 1.5mm thick, a pair of connecting cords, replacement gaskets, and gel releasers	1	65000
Spare Accessories			
Code	Product	No./case	Price/case (₹)
E12301	CompactPAGE Electrophoresis Running Module with Platinum Wire	1	54500
E12302	Gel Casting Base for COMPACTPAGE	1	11950
E12303	CompactPAGE Electrophoresis System Upper Lid with Power Cables/connecting cords	1	5120
E12304	CompactPAGE Buffer tank, No. Per Case – 1	1	6830
E12305	CompactPAGE Connecting Cables	1 Pair	1705
E12306	CompactPAGE Buffer Dam Plate	1	1705
E12307	CompactPAGE Gel Releaser	1	1022
E12308	CompactPAGE Replacement Gaskets	1	1705
E12314	Plain Glass Plate, 1.0mm attached spacers, with reference line	5 Plates	5975
E12315	Glass Plate Set, 1.0mm Spacer Plate, and Short Plate, with reference line	1 Set	1365
E12316	Plain Glass Plate with 1.5mm attached spacers, with reference line	5 Plates	5975
E12317	Glass Plate Set, with 1.5 mm attached spacers and Short Plate, with reference line	1 Set	1365
E12318	Short Glass Plate	5 Plates	1707
E12319	1.0mm thick, 10 well comb	2 Combs	1366
E12320	1.5mm thick, 10 well comb	2 Combs	1366
E12321	1.0mm thick, 11 well comb	2 Combs	1366
E12322	1.5mm thick, 11 well comb	2 Combs	1366
E12323	1.0mm thick, 15 well comb	2 Combs	1366
E12324	1.5mm thick, 15 well comb	2 Combs	1366

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## CompactBLOT Mini Wet Blot System

Abdos introduces Mini Moulded Wet Blotting Transfer System, **CompactBLOT**, an Innovative and Feature rich modular design to run western blotting applications.



Modular Design



Smooth Cassette Locking



Holding Clips with every Cassette



Single Moulded Tank with Safety lid & Thumb Locators

- Can transfer up to 2 gels of 9x7cm (WxH).
- Transfer module is compatible to use with CompactPAGE E12300 vertical electrophoresis tank.
- Can utilize the same tank to run Vertical Electrophoresis and Western Blot in the same tank one after the other.
- Single moulded high transparency polycarbonate tank.
- Distinct positive and negative transfer cassettes makes it easy to handle and operate.
- Transfer cassette comes with a handle for easy handling without disturbing the gel.
- Hinges connects the negative and positive cassette for easy handling without disturbing the gel and transfer membrane.
- Can be used with ice buckets for cooling to avoid overheating of buffer.



Model	ABDOS CompactBLOT Mini Western Blot
Dimensions (DxWxH)	10.8 x 12.5 x 18.5cm
Construction Material (Tank)	Polycarbonate
Gel Size (WxH) / Capacity	9 x 7cm / 2 Gels
Maximum Buffer Requirement	500ml
Maximum Voltage	200V

#### ABDOS CompactBLOT Mini Wet Blot Transfer System

Code	Product	No./case	Price/case (₹)
E12325	CompactBLOT Mini Wet Blot Complete System with CompactBLOT Transfer Module with Cassettes, Running Tank, LID, a Pair of Cables and Blotting Papers.	1	72000

#### Spare Accessories

Code	Product	No./case	Price/case (₹)
E12311	Western Blot Transfer Module with Cassettes	1	65000
E12310	Western Blot Transfer Module without Cassettes	1	55000
E12309	Western Blot Cassette	1	6673



Abdos Compact Range

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## 121 ABDOS VERTICAL DUAL MINI GEL SYSTEM

- Abdos Vertical dual mini system is designed to run two mini PAGE or SDS-PAGE hand cast gels.
- The system comes with standard casting unit, combs & spacers of 1 & 1.5mm thickness & a set of glass plates.
- Low buffer consumption design having small footprint area, occupies minimal lab bench space.



### ABDOS Vertical Dual Mini Gel System

Code	Product	No./case	Price/case (₹)
E12226	Vertical Mini Dual Gel System Includes – Dual Vertical Assembly, 2 sets of Glass Plates (Rectangular & Notched), 7 wells 2 Combs each of 1 mm & 1.5mm thickness, 4 nos. spacers of 1 mm & 1.5 mm Thickness, Gel Casting Stand - 1No, Supporting Screws-2 No's, Safety Lid - 1 No, Connecting Cord - 1 Pair	1	26046

### Spare Accessories

Code	Product	No./case	Price/case (₹)
E12227	Glass Plates (Notched & Rectangular)	1 Set	1736
E12229	Teflon Comb 7 well 0.5 mm	1	1852
E12230	Teflon Comb 7 well 0.75 mm	1	1852
E12231	Teflon Comb 7 well 1.0 mm	1	1852
E12232	Teflon Comb 7 well 1.5 mm	1	1852
E12233	Teflon Comb 10 well 0.5 mm	1	2315
E12234	Teflon Comb 10 well 0.75 mm	1	2315
E12235	Teflon Comb 10 well 1.0 mm	1	2315
E12236	Teflon Comb 10 well 1.5 mm	1	2315
E12237	Teflon Spacers 0.5 mm	1 Pack	1389
E12238	Teflon Spacers 0.75 mm	1 Pack	1389
E12239	Teflon Spacers 1.0 mm	1 Pack	1389
E12240	Teflon Spacers 1.5 mm	1 Pack	1389
E12244	Connecting Cords	1 Set	1620

### MODEL

### VERTICAL MINI DUAL GEL SYSTEM

Dimensions (LXWXH)	14.5 X 20.5 X 15.5 cm
Construction Material	Acrylic
Gel Size (Max) (WxH)	8 X 7cm, 2 gels
Buffer Required	200 + 50 ml
Electrodes, Wires	Brass, Platinum
Standard Combs – Teflon	7 Well-1.0mm and 1.5mm (2 Nos each)
Standard Spacers- Teflon	1.0mm and 1.5mm (2Nos each)
Maximum Sample Capacity	20
Time Consumed	2 to 3 hrs.
Recommended Power Supply	E121377

## 122 ABDOS VERTICAL MISTI - GEL SYSTEM

- The system is a designed to run One 16x14cm midi hand cast PAGE & SDS PAGE gels.
- Ventilation holes in the system prevent the build-up of condensation during electrophoresis.
- The system comes with standard casting unit, combs & spacers of 1 & 1.5mm thickness & a set of glass plates.
- Low buffer consumption design having small footprint area, occupies minimal lab bench space.



### ABDOS Vertical Midi Gel Electrophoresis System

Code	Product	No./case	Price/case (₹)
E12276	Vertical Midi Gel System Includes: Midi Vertical Assembly, 2 sets of Glass Plates (Rectangular & Notched), 13 wells 2 Combs each of 1mm & 1.5mm thickness, 4 nos. spacers of 1mm & 1.5 mm Thickness, Gel Casting Stand - 1No, Supporting Screws-2 No's, Safety Lid - 1 No, Connecting Cord - 1 Pair	1	29519

### Spare Accessories

Code	Product	No./case	Price/case (₹)
E12277	Glass Plates (Notched & Rectangular)	1 Set	2315
E12281	Teflon Comb 13 well 0.5 mm	1	2578
E12282	Teflon Comb 13 well 1.0 mm	1	2578
E12283	Teflon Comb 13 well 1.5 mm	1	2578
E12284	Teflon Comb 20 well 0.5 mm	1	2578
E12295	Teflon Comb 20 well, 1 mm	1	2578
E12296	Teflon Comb 20 well, 1.5 mm	1	2578
E12285	Teflon Spacers 0.5 mm	1	1736
E12286	Teflon Spacers 1.0 mm	1	1736
E12287	Teflon Spacers 1.5 mm	1	1736
E12292	Leveling Screws	1 Pack	810
E12244	Connecting Cords	1 Set	1620

### MODEL

### VERTICAL MISTI GEL SYSTEM

Dimensions (LXWXH)	25 x 20 x 27 cm
Construction Material	Acrylic
Gel Size (Max) (WxH)	16x14cm, 1 gel
Buffer Required	450ml
Electrodes, Wires	Brass, Platinum
Standard Combs – Teflon	13 Well-1.0mm and 1.5mm (2Nos each)
Standard Spacers- Teflon	1.0mm and 1.5mm (2Nos each)
Maximum Sample Capacity	20
Time Consumed	4 to 5 hrs.
Recommended Power Supply	E12377

- The system is a twin plate 16x14cm midi-gel unit designed specifically for PAGE & SDS-PAGE techniques requiring self-cast gels.
- The system comes with standard casting unit, combs & spacers of 1 & 1.5mm thickness & a set of glass plates.
- Low buffer consumption design having small footprint area, occupies minimal lab bench space.



**ABDOS Vertical Midi Dual Gel Electrophoresis System**

Code	Product	No./case	Price/case (₹)
E12326	Vertical Midi Dual Gel System Includes - Dual Midi Vertical Assembly, 2 sets of Glass Plates (Rectangular & Notched), 13 wells 2 Combs each of 1 mm & 1.5mm thickness, 4 nos. spacers of 1mm & 1.5 mm Thickness, Gel Casting Stand - 1No, Supporting Screws-2 No's, Safety Lid - 1 No, Connecting Cord - 1 Pair	1	46822

**Spare Accessories**

Code	Product	No./case	Price/case (₹)
E12327	Glass Plates(Notched & Rectangular)	1 Set	2083
E12331	Teflon Comb 13 well 0.5 mm	1	2894
E12332	Teflon Comb 13 well 1.0 mm	1	2894
E12333	Teflon Comb 13 well 1.5 mm	1	2894
E12334	Teflon Comb 20 well 0.5 mm	1	2083
E12295	Teflon Comb 20 well, 1 mm	1	2083
E12296	Teflon Comb 20 well, 1.5 mm	1	2083
E12335	Teflon Spacers 0.5 mm	1	2315
E12336	Teflon Spacers 1.0 mm	1	2315
E12337	Teflon Spacers 1.5 mm	1	2315
E12342	Leveling Screws	1	810
E12244	Connecting Cords	1 Set	1620



MODEL	VERTICAL MIDI GEL SYSTEM
Dimensions (LXWXH)	23 x 18 x 27.5 cm
Construction Material	Acrylic
Gel Size (Max) (WxH)	16x14cm , 2 gel
Buffer Required	200+250ml
Electrodes, Wires	Brass, Platinum
Standard Combs -Teflon	13 Well-1.0mm and 1.5mm (2Nos each)
Standard Spacers- Teflon	1.0mm and 1.5mm (2Nos each)
Maximum Sample Capacity	40
Time Consumed	2 to 5 hrs.
Recommended Power Supply	E12377

# VERTICAL ELECTROPHORESIS SELECTION GUIDE

	E12300 CompactPAGE	E12226 Dual Mini	E12276 Midi	E12326 Dual Midi
<b>UNIT DIMENSIONS (LXWXH)</b>	10.8 x 12.5 x 18.5 cm	14.5 x 20.5 x 15.5 cm	25 x 20 x 27 cm	23 x 18 x 27.5 cm
<b>MATERIAL OF CONSTRUCTION</b>	PC	Acrylic	Acrylic	Acrylic
<b>GEL SIZE (WXL)</b>	8.3 x 7.3 cm (2 Gels)	8 x 7 cm (2 Gels)	16 x 14 cm (1 Gel)	16 x 14 cm (2 Gels)
<b>BUFFER REQUIRED</b>	500ml	250ml	450ml	500ml
<b>MAXIMUM SAMPLE CAPACITY</b>	30 Samples	20 Samples	20 Samples	40 Samples
<b>RECOMMENDED POWER SUPPLY</b>	E12377	E12377	E12377	E12377

## 124 ABDOS PROGRAMMABLE POWER SUPPLIES

**NEW**

- Abdos programmable power supplies are compact comes with 300V, 400mA and 120W.
- Large Digital Display for input and output values.
- Runs Four Gels simultaneously with Parallel outputs.
- 16 programs memory
- Safety Features - Short circuit & overload protection, Pause Key, Auto Recovery after Power failure, timer function up to 23.59 hours, audio & visual alarm.



Code	Product Description	No./case	Price/case (₹)
E12377	Microprocessor Based Programmable Power Supply, 0-300V, 0-400mA, 120W, 4 Outputs	1	71400

MODEL	E12377
Dimensions (LXWXH)	24 x 20 x 12 cm
Construction Material	MS Powder Coated
Output Voltage	0 – 300V (Increment by 1V)
Output Current	0-400mA (Increment by 1mA)
Output Wattage	120 W
Output Terminals	4 Parallel Output
Timer	0-23.59 Hours
Storage	16 Programs
Input Rating	200-260vac/50hz



125 **ABDOS SINGLE WAVELENGTH UV TRANSILLUMINATORS**

**NEW**

- Abdos offers three models in it's single wavelength UV transilluminator
- range from 254, 312 & 365nm.
- Compact 20x20cm size, Comes with UV protection filter cover for added safety.
- Flicker free Six UV tubes of 8 watts ensures even distribution of light for better viewing of EtBr Stained bands.



**ABDOS Single Wavelength UV Transilluminators – Ordering Information**

Code	Product Description	No./case	Price/case (₹)
E12380	Single wavelength UV Transilluminator, 254nm, 20x20cm	1	125000
E12381	Single wavelength UV Transilluminator, 312nm, 20x20cm	1	125000
E12382	Single wavelength UV Transilluminator, 365nm, 20x20cm	1	125000

MODEL	E12380	E12381	E12382
Dimensions (LXWXH)	35x30x15cm	35x30x15cm	35x30x15cm
Construction Material	MS Powder Coated	MS Powder Coated	MS Powder Coated
Viewing Area	20x20cm	20x20cm	20x20cm
Wavelength	254nm	312nm	365nm
Detection Limit	1ng	1ng	1ng
No of UV Tubes	6 Nos	6 Nos	6 Nos
Wattage	8 Watt Each	8 Watt Each	8 Watt Each
Filter	UV Protection Filter	UV Protection Filter	UV Protection Filter

126 **ABDOS DUAL WAVELENGTH UV TRANSILLUMINATORS**

**NEW**

- Abdos Dual wavelength UV transilluminators offers widest range of versatility with its two combinations of 254/365 nm & 365/312 nm.
- Compact 20x20cm size comes with UV protection filter cover for added safety.
- Flicker free Eight UV tubes of 8 watts ensures even distribution of light for better viewing of EtBr Stained bands.
- Button to switch between the two wavelengths with markings.



**ABDOS Dual Wavelength UV Transilluminators – Ordering Information**

Code	Product Description	No./case	Price/case (₹)
E12385	Dual wavelength UV Transilluminator, 254/365nm, 20x20cm	1	130000
E12388	Dual wavelength UV Transilluminator, 365/312nm, 20x20cm	1	135000

MODEL	E12385	E12388
Dimensions (LXWXH)	35x30x15cm	35x30x15cm
Construction Material	MS Powder Coated	MS Powder Coated
Viewing Area	20x20cm	20x20cm
Wavelength	254/365nm	365/312nm
Detection Limit	1ng	1ng
No of UV Tubes	8 Nos	8 Nos
Wattage	8 Watt Each	8 Watt Each
Filter	UV Protection Filter	UV Protection Filter



Quality means  
doing it right even  
when no one is looking

# 08

## Multipurpose Racks and Boxes

Rotator Workstation

Multi Combination Racks

Frosty Mate Racks

Storage Racks

Test Tube Racks



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127 ROTATOR WORKSTATION, PP

- Abdos rotator workstation is a unique ultimate workstation helping you organize your laboratory work.
- Cube shaped multi-hole rack suitable for different products, has a unique rotate and lock design that helps add or subtract racks according to end user's needs.
- These racks can withstand temperature range from -80°C to 121°C.



Code	Tube Capacity	L x W x H	No./case	Price/case (₹)
P20208	PCR Tubes & Plates, 0.5ml & 1.5ml & 2.0ml, 15ml & 50ml	108 x 68 x 108 mm	4 (assorted colours)	3071

Product Compatibility chart for Rotatory Workstation:

PRODUCT	NO. PER UNIT
50 ml Centrifuge Tube	2 per unit
15 ml Centrifuge Tube	8 per unit
1.5 ml or 2.0 ml Micro Centrifuge Tube	9 per unit
0.5 ml Micro Centrifuge Tube	6 per unit
PCR Plates (unskirted or semi skirted 96 well)	1 per 2 unit locked together
PCR 8-tube strip	6 per unit
PCR 12-tube strip	8 per 2 unit
PCR 0.2 ml tubes	48 per unit

Assorted colours consist of Blue (B), Green (G), Yellow (Y) & Red (R).



128 MULTI COMBINATION RACKS, PP

- Abdos multi-combination rack is a unique combination for various tubes and vials.
- Multi-Hole for keeping different products as per own requirement, and has a unique rotate and lock design that helps add or subtract racks according to end user's needs.
- These racks can withstand a temperature of -80°C to 121°C.



Code	Tube Capacity	L x W x H	No./case	Price/case (₹)
P20209	0.5ml & 1.5ml & 2.0ml, 12 x 75 Tube, 15ml & 50ml	175 x 90 x 65 mm	4 (assorted colours)	1426

Product Compatibility chart for Rotatory Workstation:

PRODUCT	NO. PER UNIT
50 ml Centrifuge Tube	4 per unit
15 ml Centrifuge Tube	12 per unit
1.5 ml or 2.0 ml Micro Centrifuge Tube	32 per unit
0.5 ml Micro Centrifuge Tube	32 per unit
RIA Vial 12 x 75 mm (5ml tube)	32 per unit

Assorted colours consist of Blue (B), Green (G), Yellow (Y) & Red (R).



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## 129 REVERSIBLE RACK WITH COVER, PP

- Manufactured in the state of the art facility using high purity virgin polypropylene.
- Hold micro centrifuge tubes of 1.5/2.0ml on one side and 0.5ml tubes on the other.
- 16 x 5 Array on the 80 Place rack for 0.5, 1.5 & 2.0 ml micro centrifuge tubes and 12 x 8 array on the 96 place rack for 0.5, 1.5 ml & 2.0 ml micro centrifuge tubes.
- Moulded Indexing for easy reference of tubes and vials.



Code	Tubes Capacity	Places	L x W x H	No./case	Price/case (₹)
P20206	1.5/2.0 ml & 0.5 ml	96 (12 x 8 Array)	220 x 150 x 50 mm	6	3651
P20206 Assorted	1.5/2.0 ml & 0.5 ml	96 (12 x 8 Array)	220 x 150 x 50 mm	6 (2 pieces of each colour)	3651
P20207	1.5/2.0 ml & 0.5 ml	80 (16 x 5 Array)	240 x 85 x 50 mm	6	1943
P20207 Assorted	1.5/2.0 ml & 0.5 ml	80 (16 x 5 Array)	240 x 85 x 50 mm	6 (2 pieces of each colour)	1943

Add colour of your choice- Green (G), Yellow (Y), Blue (B).

## 130 TWISTY TUBE RACK, PP

- These racks make dilution and concentration study easier as they can transfer samples between 0.2ml PCR tubes to 0.5, 1.5 and 2.0ml tubes.
- Can be rotated and customized according to the end-user application.
- These racks have tapered wells that securely suspend tubes and make removal easy.
- Moulded in indexing for easy retrieval of tubes.
- These Racks can withstand a temperature of -80°C to 121°C.
- The Blue section holds 48 (0.5ml) tubes and the reverse side holds 48 (1.5ml) tubes whereas the purple section holds 96 (0.2ml) tubes and 48 (1.5ml) tubes on the reverse side.



Code	Tubes Capacity	Colour	Places	L x W x H	No./case	Price/case (₹)
P20210	0.2ml, 0.5ml, 1.5ml & 2.0 ml	Blue, Purple	0.2 ml - 96 0.5 ml - 48 1.5/2.0 ml - 48	296 x 118 x 34 mm	1 Kit (Blue + Purple)	3984

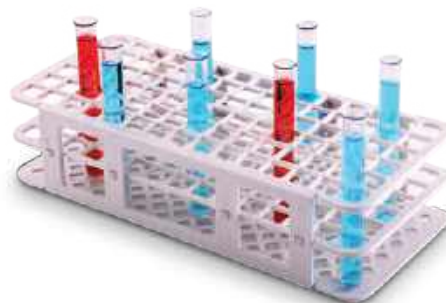
## 131 POLYGRID TEST TUBE RACKS, PP

- Manufactured in the state of the art moulding facility using high purity virgin polypropylene (PP).
- Can be used in a wide temperature range.
- Racks have precise grid and vents.
- Superior chemical resistance.



Code	Tube	Places	L x W x H	No./case	Price/case (₹)
P20716	13 mm	90 Places	248 x 116 x 64 mm	4	1571
P20717	17 mm	60 Places	245 x 118 x 70 mm	4	1571
P20718	21 mm	40 Places	248 x 116 x 70 mm	4	1571

Add colour of your choice- White (W), Blue (B).



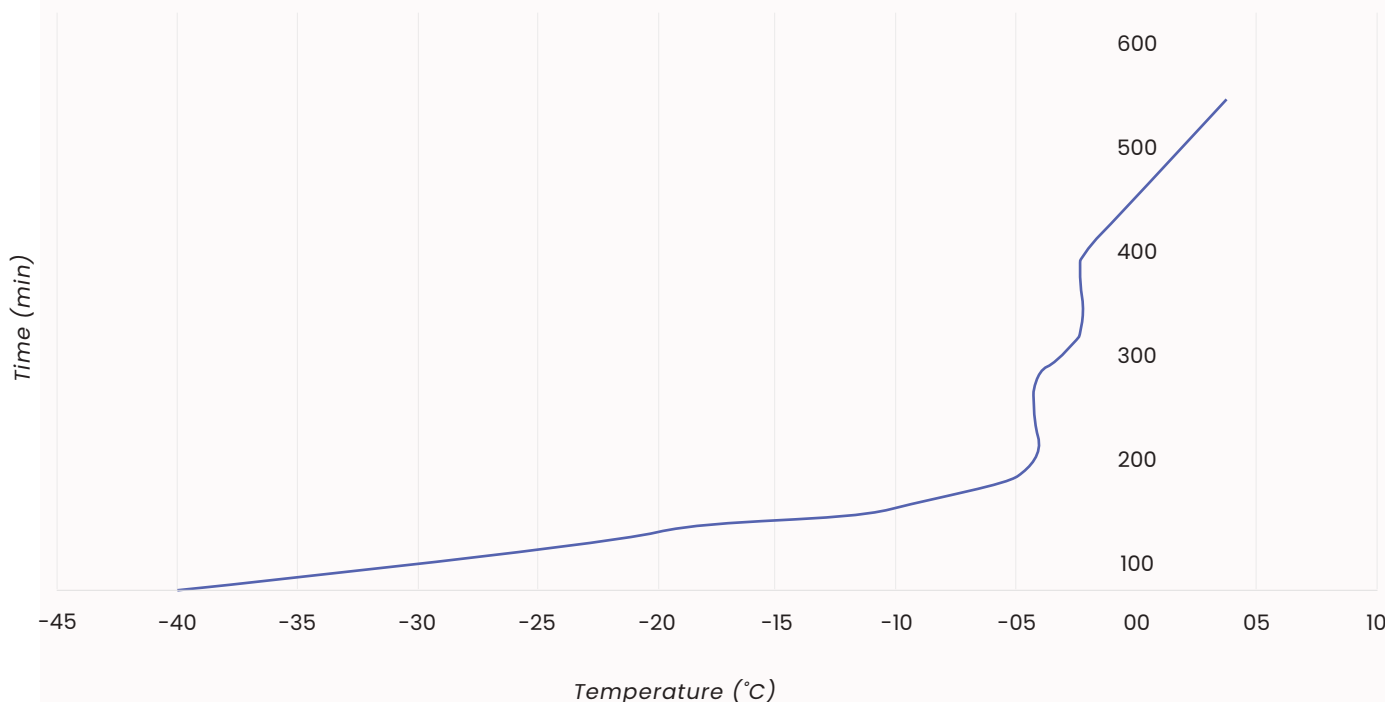
- These racks have consistent thermal protection to maintain low temperatures.
- These racks are suitable for storage for PCR reagents, cells, enzymes or other temperature-sensitive reagents for protecting the critical sample from temperature fluctuations.
- Moulded indexing makes identification faster and easier.
- These racks are available in two temperature ranges:
  - (a) -20°C unit will maintain a temperature between -10°C & -20°C for up to three hours.
  - (b) 0°C unit will maintain a temperature of 0°C for 5 hours.
- These racks are filled with an inert, non-toxic gel.



-20°C Frosty Mate™ Freezer Storage Racks					
Code	Capacity	Places	L x W x H	No./case	Price/case (₹)
PIII04	1.5 - 2.0 ml Micro Tube, 1.0 - 2.0 ml Cryo Tube & 0.5 ml Micro Tube with external attachment	32 (8 x 4 Array)	240 x 120 x 120 mm	1	8501

0°C Frosty Mate™ Freezer Storage Racks					
Code	Capacity	Places	L x W x H	No./case	Price/case (₹)
PIII05	1.5 - 2.0 ml Micro Tube, 1.0 - 2.0 ml Cryo Tube & 0.5 ml Micro Tube with external attachment	32 (8 x 4 Array)	240 x 120 x 120 mm	1	8501

Graph representing temperature stability VS Time



Note - Before use, Frosty Mate™ should be kept for 24 hours at - 40°C temperature deep freeze.

## 133 FROSTY MATE™ COLOUR CHANGE RACKS, PP

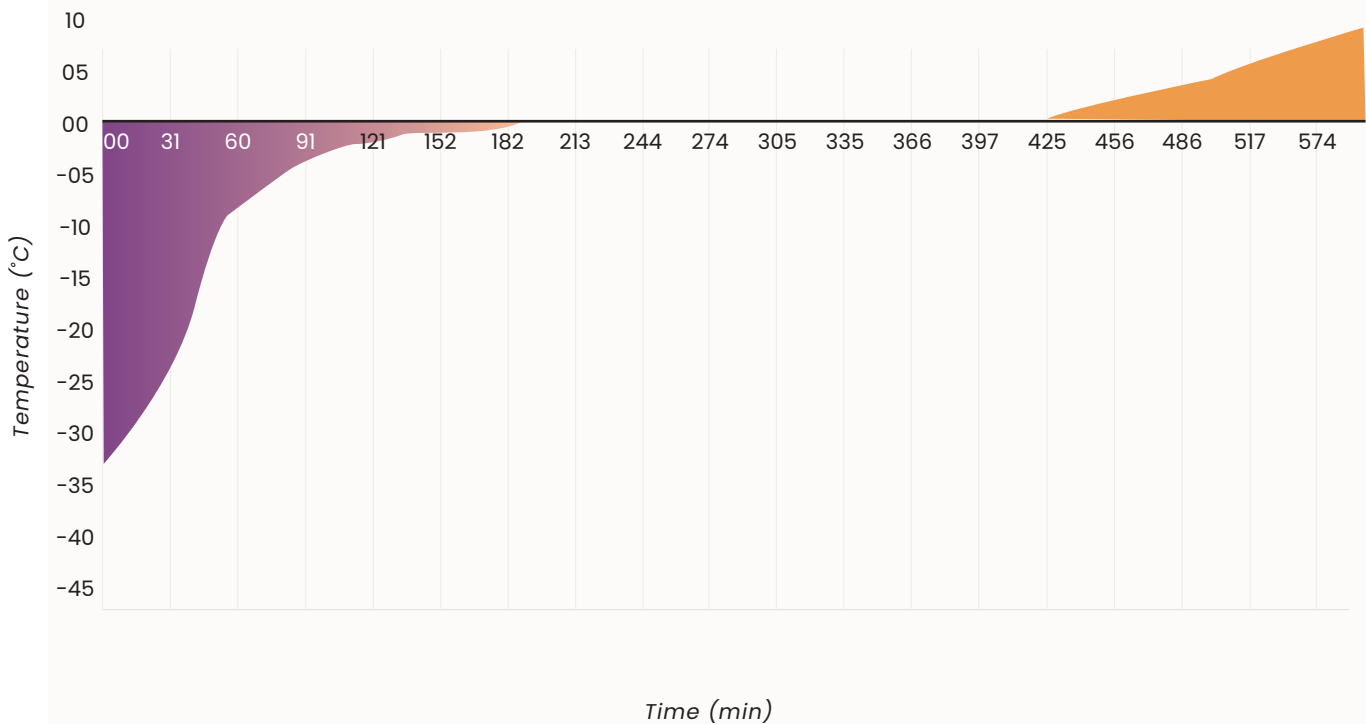
- These racks maintain a temperature of less than 4°C for about 3.5 hours (when the lid is on the rack) at room temperature.
- Frosty Mate™ can be used to transport biological samples, chemicals etc. at a stable temperature for a long period.
- Consistently cooled samples – FROSTY MATE™ colour changes drastically when the temperature samples drops below 4°C.
- A clear visible colour change from Green to Yellow.



MCT Freezer Change Racks							
Code	Colour at cold temperature	Colour at warm temperature	Capacity	Places	L x W x H	No./case	Price/case (₹)
P11106	Green	Yellow	1.5 - 2 ml Micro Tube & 0.5 ml Micro Tube with external attachment	24 (6 x 4 Array)	150 x 100 x 75 mm	1	6720

PCR Freezer Change Racks, PP							
Code	Colour at cold temperature	Colour at warm temperature	Capacity	Places	L x W x H	No./case	Price/case (₹)
P11107	Green	Yellow	PCR tubes/ 96 well plates/ strip tubes	96 (12 x 8 Array)	150 x 100 x 75 mm	1	6720

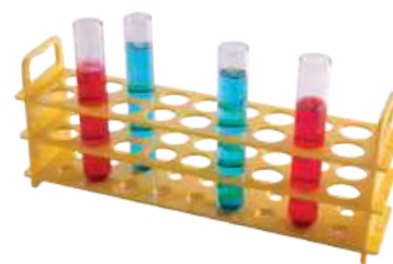
Graph representing temperature stability VS Time



Note – Before use, Frosty Mate™ should be kept for 24 hours at - 40°C temperature deep freeze.

## 134 TEST TUBE RACK, RPP &amp; PC

- Holes are aligned with moulded-in numbers and letters for easy identification.
- Ergonomics design facilitates easy handling.
- Can be used in a wide temperature range.
- Superior chemical resistance.



Test Tube Rack, RPP

Code	Tube	Places	Capacity	L x W x H	No./case	Price/case (₹)
P20701	13 mm	31 Places	White, Yellow, Blue	275 x 65 x 110 mm	4	1262
P20702	16 mm	31 Places	White, Yellow, Blue	275 x 65 x 110 mm	4	1262
P20703	20 mm	20 Places	White, Yellow, Blue	324 x 73 x 127 mm	4	1454
P20704	25 mm	18 Places	White, Yellow, Blue	324 x 73 x 127 mm	4	1454
P20705	32 mm	12 Places	White, Yellow, Blue	280 x 84 x 127 mm	4	1681

Test Tube Rack, PC

Code	Tube	Places	Capacity	L x W x H	No./case	Price/case (₹)
P20706	13 mm	31 Places	White, Yellow, Blue	275 x 65 x 110 mm	4	2506
P20707	13 mm	62 Places	White, Yellow, Blue	275 x 133 x 112 mm	2	2498
P20708	16 mm	31 Places	White, Yellow, Blue	275 x 65 x 110 mm	4	2506
P20709	16 mm	62 Places	White, Yellow, Blue	275 x 133 x 112 mm	2	2498
P20710	20 mm	20 Places	White, Yellow, Blue	324 x 73 x 127 mm	4	2789
P20711	20 mm	40 Places	White, Yellow, Blue	324 x 143 x 127 mm	2	2789
P20712	25 mm	18 Places	White, Yellow, Blue	324 x 73 x 127 mm	4	2789
P20713	25 mm	36 Places	White, Yellow, Blue	324 x 143 x 127 mm	2	2789
P20714	32 mm	12 Places	White, Yellow, Blue	280 x 84 x 127 mm	4	3170
P20715	32 mm	24 Places	White, Yellow, Blue	280 x 170 x 128 mm	2	3170

Add colour of your choice- White (W), Yellow (Y), Blue (B).

## 135 DOUBLE JUMBO TEST TUBE RACK, RPP

- These innovative double jumbo test tube racks are used for high capacity storage for tubes, vials and vessels.
- Extremely suitable for high throughput labs requiring large sample storage.
- Manufactured from robust, sturdy and lightweight material suitable for easy movement and transport.
- Holes are aligned with moulded-in numbers and letters for easy identification.
- Due to its sheer size, these racks eliminates the risk of using other multiple racks.
- Double Jumbo racks can be used for storing various grouping samples.



Double Jumbo Test Tube Rack, RPP

Code	Tube	Places	Capacity	L x W x H	No./case	Price/case (₹)
P20441	10 - 13 mm	432 Places	White, Blue	673 x 230 x 80 mm	1	9599
P20442	13 - 16 mm	240 Places	White, Blue	521 x 260 x 89 mm	1	9599

Jumbo Test Tube Rack, RPP

Code	Tube	Places	Capacity	L x W x H	No./case	Price/case (₹)
P20443	10 - 13 mm	216 Places	White, Blue	337 x 267 x 91 mm	1	5074
P20444	13 - 16 mm	120 Places	White, Blue	337 x 267 x 91 mm	1	5074

Add colour of your choice- White (W), Blue (B).

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- Polywire racks are made of a single continuous mold, so no assembly required as there are no detachable pieces.
- Manufactured from Derlin®, a material that is incredibly durable and highly resistant to heat, acid and bases.
- Superior performance to Nylon.
- Moulded indexing for easy identification.
- These racks have flat labelling area for easier identification.
- Stable in water bath.
- Can be used throughout a wide temperature range from - 40°C to 140°C.



Polywire Rack Half, Delrin						
Code	Tube	Places	Colour	L x W x H	No./case	Price/case (₹)
P20720	13 mm	36 Places	White, Blue, Red	248 x 116 x 64 mm	4	4405
P20721	16 mm	36 Places	White, Blue, Red	245 x 118 x 70 mm	4	5870
P20722	20 mm (15 ml tube)	20 Places	White, Blue, Red	248 x 116 x 70 mm	4	6010
P20723	25 mm	16 Places	White, Blue, Red		4	6010
P20724	30 mm (50 ml tube)	9 Places	White, Blue, Red		4	6010

Polywire Rack Full, Delrin						
Code	Tube	Places	Colour	L x W x H	No./case	Price/case (₹)
P20725	13 mm	72 Places	White, Blue, Red	104 x 202 x 59 mm	4	5871
P20726	16 mm	60 Places	White, Blue, Red	127 x 250 x 70 mm	4	7926
P20727	20 mm (15 ml tube)	40 Places	White, Blue, Red	100 x 252 x 83 mm	4	8072
P20728	25 mm	40 Places	White, Blue, Red	120 x 300 x 92 mm	4	10274
P20729	30 mm (50 ml tube)	24 Places	White, Blue, Red	110 x 282 x 85 mm	4	10274

Add colour of your choice- White (W), Blue (B), Red (R).



Organization: TIFR Hyderabad

Ease of Use ★★★★★

After Sales Service ★★★★★

Value for Money ★★★★★

“ Unique and handy product ”

★★★★★ Average Rating 5.0

Application Area: Bench work

This multi utility workstation has helped to keep the work bench neat and tidy. It can hold different products at the same time. They are quiet flexible and easy to use.

Review Date: 12 Jul 2023 | Abdos



Cost might look more important than quality but quality is the best way to reduce overall cost

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## Bottles & Carboys

Narrow & Wide Mouth Bottles  
Aspirator Bottles  
Carboys & More



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### 137 NARROW MOUTH BOTTLE, PP

- These bottles come with inner thread for superior sealing and better security.
- These bottles are used for packing, shipping and storage purposes.
- Superior resistance to chemicals.
- Complete emptying is guaranteed through the inclination of shoulders.



Code	Capacity	Mouth Diameter	Height	No./case	Price/case (₹)
PII135	4 ml	12.2 mm	39.0 mm	72	848
PII136	8 ml	17.5 mm	42.3 mm	72	1094
PII137	15 ml	17.5 mm	56.1 mm	72	1261
PII138	30 ml	17.5 mm	60.0 mm	72	1697
PII131	60 ml	17.5 mm	82.4 mm	72	2282
PII132	125 ml	21.0 mm	97.6 mm	72	3133
PII133	250 ml	21.0 mm	130.7 mm	72	5068
PII134	500 ml	24.6 mm	165.5 mm	48	4505
PII139	1000 ml	52.1 mm	221.5 mm	24	4227



### 138 NARROW MOUTH BOTTLE, LDPE

- These bottles come with inner thread for superior sealing and better security.
- These bottles are used for packing, shipping and storage purposes.
- Superior resistance to chemicals.
- Complete emptying is guaranteed through the inclination of shoulders.
- Suitable for storage of low-density liquids.



Code	Capacity	Mouth Diameter	Height	No./case	Price/case (₹)
PII146	8 ml	17.5 mm	42.3 mm	72	848
PII147	15 ml	17.5 mm	56.1 mm	72	1018
PII148	30 ml	17.5 mm	60 mm	72	1434
PII141	60 ml	17.5 mm	82.4 mm	72	1868
PII142	125 ml	21 mm	97.6 mm	72	2528
PII143	250 ml	21 mm	130.7 mm	72	4044
PII144	500 ml	24.6 mm	165.5 mm	48	3312
PII149	1000 ml	52.1 mm	221.5 mm	24	3153



### 139 NARROW MOUTH BOTTLE, HDPE

- These bottles come with inner thread for superior sealing and offers higher strength.
- These bottles are used for packing, shipping and storage purposes.
- Superior resistance to chemicals.
- Complete emptying is guaranteed through the inclination of shoulders.
- Compatible with a wide range of laboratory reagents.



Code	Capacity	Mouth Diameter	Height	No./case	Price/case (₹)
PII155	4 ml	12.2 mm	39.0 mm	72	754
PII156	8 ml	17.5 mm	42.3 mm	72	1018
PII157	15 ml	17.5 mm	56.1 mm	72	1097
PII158	30 ml	17.5 mm	60.0 mm	72	1512
PII151	60 ml	17.5 mm	82.4 mm	72	2030
PII152	125 ml	21.0 mm	97.6 mm	72	2786
PII153	250 ml	21.0 mm	130.7 mm	72	4475
PII154	500 ml	24.6 mm	165.5 mm	48	3714
PII159	1000 ml	52.1 mm	221.5 mm	24	3477



## 140 AMBER NARROW MOUTH BOTTLE, HDPE

- These bottles come with inner threads for superior sealing and offers higher strength.
- Opaque amber colour reduces UV light transmissions to protect light sensitive samples.
- These bottles are used for packing, shipping and storage purposes.
- Superior resistance to chemicals.
- Complete emptying guaranteed through the inclination of shoulders.
- Compatible with a wide range of laboratory reagents.



Code	Capacity	Mouth Diameter	Height	No./case	Price/case (₹)
PIII55A	4 ml	12.2 mm	39.0 mm	72	938
PIII56A	8 ml	17.5 mm	42.3 mm	72	1188
PIII57A	15 ml	17.5 mm	56.1 mm	72	1358
PIII58A	30 ml	17.5 mm	60.0 mm	72	2039
PIII51A	60 ml	17.5 mm	82.4 mm	72	2627
PIII52A	125 ml	21.0 mm	97.6 mm	72	3541
PIII53A	250 ml	21.0 mm	130.7 mm	72	5559
PIII54A	500 ml	24.6 mm	165.5 mm	48	5002
PIII59A	1000 ml	52.1 mm	221.5 mm	24	5351



## 141 NARROW MOUTH BOTTLE (CARBOY TYPE), PP

- These bottles come with long inner threads for superior sealing and better security.
- These bottles are used for packing, shipping and storage purposes.
- Superior resistance to chemicals.
- Complete emptying is guaranteed through the inclination of shoulders.



Code	Capacity	Mouth Diameter	Height	No./case	Price/case (₹)
PIII27	2000 ml	24.9 mm	248.1 mm	6	2872
PIII28	4000 ml	25.6 mm	333 mm	6	5590
PIII29	8000 ml	38.3 mm	410 mm	6	9579



## 142 WIDE MOUTH BOTTLE, PP

- These bottles come with inner threads for superior sealing and better security.
- Wide mouth of bottles allows for easy filling and emptying.
- These bottles are used for packing, shipping and storage purposes.
- Superior resistance to chemicals.
- Complete emptying is guaranteed through the inclination of shoulders.



Code	Capacity	Mouth Diameter	Height	No./case	Price/case (₹)
PIII60	30 ml	21.2 mm	58.9 mm	72	2039
PIII61	60 ml	24.8 mm	81 mm	72	2716
PIII62	125 ml	32 mm	94.5 mm	72	3711
PIII63	250 ml	32.2 mm	126.7 mm	72	5818
PIII64	500 ml	47.5 mm	163.2 mm	48	5224
PIII69	1000 ml	61.5 mm	196.8 mm	24	4873



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## 143 WIDE MOUTH BOTTLE, LDPE

- These bottles come with inner threads for superior sealing and better security.
- Wide mouth of bottles allows for easy filling and emptying.
- These bottles are used for packing, shipping and storage purposes.
- Superior resistance to chemicals.
- Complete emptying is guaranteed through the inclination of shoulders.
- Suitable for storage of low-density liquids.



Code	Capacity	Mouth Diameter	Height	No./case	Price/case (₹)
PI1170	30 ml	21.2 mm	58.9 mm	72	1697
PI1171	60 ml	24.8 mm	81 mm	72	2203
PI1172	125 ml	32 mm	94.5 mm	72	3051
PI1173	250 ml	32.2 mm	126.7 mm	72	4716
PI1174	500 ml	47.5 mm	163.2 mm	48	4327
PI1175	1000 ml	61.5 mm	196.8 mm	24	3989



## 144 WIDE MOUTH BOTTLE, HDPE

- These bottles come with inner threads for superior sealing and better security.
- Wide mouth of bottles allows for easy filling and emptying.
- These bottles are used for packing, shipping and storage purposes.
- Superior resistance to chemicals.
- Complete emptying is guaranteed through the inclination of shoulders.
- Compatible with a wide range of laboratory reagents.



Code	Capacity	Mouth Diameter	Height	No./case	Price/case (₹)
PI1180	30 ml	21.2 mm	58.9 mm	72	1868
PI1181	60 ml	24.8 mm	81 mm	72	2447
PI1182	125 ml	32 mm	94.5 mm	72	3371
PI1183	250 ml	32.2 mm	126.7 mm	72	5226
PI1184	500 ml	47.5 mm	163.2 mm	48	4721
PI1185	1000 ml	61.5 mm	196.8 mm	24	4389



## 145 AMBER WIDE MOUTH BOTTLE, HDPE

- These bottles come with inner thread for superior sealing and better security.
- Opaque amber colour reduces UV light transmissions to protect light sensitive samples.
- Wide mouth of bottles allows for easy filling and emptying.
- These bottles are used for packing, shipping and storage purposes.
- Superior resistance to chemicals.
- Complete emptying is guaranteed through the inclination of shoulders.
- Compatible with a wide range of laboratory reagents.



Code	Capacity	Mouth Diameter	Height	No./case	Price/case (₹)
PI1180A	30 ml	21.2 mm	58.9 mm	72	2381
PI1181A	60 ml	24.8 mm	81 mm	72	2957
PI1182A	125 ml	32 mm	94.5 mm	72	4140
PI1183A	250 ml	32.2 mm	126.7 mm	72	6320
PI1184A	500 ml	47.5 mm	163.2 mm	48	5731
PI1185A	1000 ml	61.5 mm	196.8 mm	24	6149



146 **ASPIRATOR BOTTLE WITH STOPCOCK, PP**

- Aspirator bottles are manufactured using high-purity virgin USP Class VI Medical grade polypropylene (PP).
- These bottles come with a secure sealing cap for better security and long-term storage.
- These bottles are used for storing and shipping reagents, chemicals, culture media, and standards.
- Sturdy and durable for extended use over time with a strong carrying handle.
- Comes with high quality, durable stopcock or tap for easy withdrawal of liquids, chemicals, reagents, culture media and standards.
- Can be used at a temperature below 0°C.
- Superior resistance to chemicals.



Code	Capacity	Mouth Diameter	Height	No./case	Price/case (₹)
PII515	5 LTS	51.4 mm	374 mm	1	2027
PII516	10 LTS	51.4 mm	445 mm	1	3317
PII517	20 LTS	51.4 mm	525 mm	1	4562
PII524	Stopcock			1	500

147 **CARBOY, PP**

- Abdos Carboys are manufactured using high-purity virgin USP Class VI Medical grade polypropylene (PP).
- These carboys come with a secure sealing cap for better security and long-term storage.
- These carboys are used for storing and shipping reagents, chemicals, culture media, and standards.
- These are very strong and durable for extended use over time with a strong carrying handle on both sides of the carboy.
- Can be used at a temperature below 0°C.
- Superior resistance to chemicals.



Code	Capacity	Mouth Diameter	Height	No./case	Price/case (₹)
PII518	10 LTS	63.8 mm	378 mm	1	2684
PII519	20 LTS	64.2 mm	525 mm	1	3806

148 **CARBOY WITH STOPCOCK, PP**

- Abdos Carboys are manufactured using high-purity virgin USP Class VI Medical grade polypropylene (PP).
- These carboys come with a secure sealing cap for better security and long-term storage.
- These carboys are used for storing and shipping reagents, chemicals, culture media, and standards.
- These are very strong and durable for extended use over time with a strong carrying handle on both sides of the carboy.
- Comes with high quality and durable stopcock or tap for easy withdrawal of liquids, chemicals, reagents, culture media and standards.
- Can be used at a temperature below 0°C.
- Superior resistance to chemicals.



Code	Capacity	Mouth Diameter	Height	No./case	Price/case (₹)
PII520	10 LTS	63.8 mm	378 mm	1	3806
PII521	20 LTS	64.2 mm	525 mm	1	5240
PII524	Stopcock			1	500



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## 149 CARBOY WIDE MOUTH, PP

- Abdos Carboys are manufactured using high-purity virgin USP Class VI Medical grade polypropylene (PP).
- These carboys come with a secure sealing cap for better security and long-term storage.
- These carboys are used for storing and shipping reagents, chemicals, culture media, and standards.
- These are very strong and durable for extended use over time with a strong carrying handle on both sides of the carboy.
- Comes with wide mouth easy withdrawal and refill of liquids, chemicals, reagents, culture media and standards.
- Can be used at a temperature below 0°C.
- Superior resistance to chemicals.
- Wide mouth allows inlet & outlet of liquid more efficiently with chances of less spillage.



Code	Capacity	Mouth Diameter	Height	No./case	Price/case (₹)
P11522	10 LTS	76 mm	378 mm	1	2684
P11523	20 LTS	85 mm	525 mm	1	3806



## 150 HEAVY DUTY WIDE MOUTH CARBOY WITH STOPCOCK, HDPE

- Abdos Carboys are manufactured using high-purity virgin USP Class VI Medical grade polypropylene (PP).
- These carboys come with a secure sealing cap for better security and long-term storage.
- These carboys are used for storing and shipping reagents, chemicals, culture media, and standards.
- These heavy-duty carboys are large with wide mouth capable of handling large volume.
- These are very strong and durable for extended use over time with a strong carrying handle on both sides of the carboy.
- Comes with high quality and durable stopcock or tap for easy withdrawal of liquids, chemicals, reagents, culture media and standards.
- Superior resistance to chemicals & laboratory reagents.



Code	Capacity	Mouth Diameter	Height	No./case	Price/case (₹)
P11511	30 LTS	250 mm	440 mm	1	9474
P11512	50 LTS	250 mm	650 mm	1	14121
P11513	100 LTS	250 mm	800 mm	1	21271
P11510	Spare Stopcock	9 mm	NA	1	1139



## 151 SPRAY BOTTLE, LDPE

- These bottles are used to spray, clean and disinfect bench-top space, laminar flow, incubators, bench-top instruments and production floor.
- Can also be used for spraying into areas difficult to access as well as applications in thin-layer chromatography.
- Spray bottles have stable smooth operated pump triggers and adjustable spray nozzle that can be regulated from the finest mist to precise liquid jet.
- Superior resistance to chemicals.



Code	Capacity	No./case	Price/case (₹)
P11191	500 ml	6	4093
P11192	1000 ml	6	4465
P11200	Spare Pump	1	471



## 152 DROPPING BOTTLE EURO TYPE, LDPE

- These dropping bottles are used for routine storage and pouring applications in the laboratory.
- These bottles can be squeezed to ensure precise and steady dripping of liquid from the bottle.
- Moulded from high-quality virgin low-density polyethylene to ensure excellent results.
- Superior resistance to chemicals.



Code	Capacity	Mouth Diameter	Height	No./case	Price/case (₹)
P11305	30 ml	17.5 mm	60 mm	12	549
P11306	60 ml	17.5 mm	82.4 mm	12	664
P11307	125 ml	23.6 mm	94.2 mm	12	867
P11308	250 ml	22.8 mm	101.8 mm	12	1315



## 153 WASH BOTTLE, LDPE

- Moulded from high-quality virgin low-density polyethylene to ensure excellent results.
- These wash bottles are used for routine storage and pouring applications in the laboratory.
- These bottles have an internal spray to ensure precise dripping of liquid from the bottle.
- Superior chemical resistance.



Code	Capacity	Mouth Diameter	Height	No./case	Price/case (₹)
P11310	1000 ml	25.8 mm	220 mm	6	1108
P11311	250 ml	24 mm	148 mm	12	926
P11312	500 ml	23.8 mm	173 mm	6	663



## 154 WASH BOTTLE (COMET), LDPE

- Moulded from high-quality virgin low-density polyethylene to ensure excellent results.
- These wash bottles are used for routine storage and pouring applications in the laboratory.
- These bottles have an internal spray to ensure precise dripping of liquid from the bottle.
- These bottles are ideal for Distilled water and suitable for foodstuff.



Code	Capacity	Mouth Diameter	Height	No./case	Price/case (₹)
P11313	250 ml	28.2 mm	134.5 mm	12	1272
P11314	500 ml	28.2 mm	165.7 mm	6	705





Quality is not just what  
you put in it; it is what  
the user gets out of it

# 10

## General Laboratory Products

Beakers & Measuring Cylinders  
Volumetric Flasks & Dessicators  
Scoops & Spatula  
Stirrer Bars & More



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## 155 BEAKERS WITHOUT HANDLE, PP &amp; TPX

- Manufactured in state of the art moulding facility using high purity virgin polypropylene (PP) & polymethylpentene (TPX).
- PP Material conforming to US FDA 21 CFR.
- TPX Material has distinct advantage of high transparency & chemical resistivity, also has higher thermal withstand capacity over PP beakers.
- Tapered stacking style saves space and makes it easy to handle.
- All sizes have easy to read silk-screened graduations.
- Precise pouring spouts.



Beakers Without Handle, PP

Code	Capacity	Height	No./case	Price/case (₹)
P50601	50 ml	59 mm	12	342
P50602	100 ml	73 mm	12	384
P50603	250 ml	94 mm	12	681
P50604	500 ml	128 mm	6	525
P50605	1000 ml	150 mm	4	650
P50606	2000 ml	192 mm	4	1269
P50607	5000 ml	263 mm	2	1554
P50608	10000 ml	328 mm	1	1364

Beakers Without Handle, TPX

Code	Capacity	Height	No./case	Price/case (₹)
P50701	50 ml	59 mm	12	708
P50702	100 ml	73 mm	12	981
P50703	250 ml	94 mm	12	2040
P50704	500 ml	128 mm	6	1857
P50705	1000 ml	150 mm	4	1913
P50706	2000 ml	192 mm	4	3078
P50707	5000 ml	263 mm	2	3048
P50708	10000 ml	328 mm	1	3046

## 156 BEAKERS WITH HANDLE, PP &amp; TPX



Beakers With Handle, PP

Code	Capacity	Height	No./case	Price/case (₹)
P50802	100 ml	73 mm	6	300
P50803	250 ml	94 mm	6	510
P50804	500 ml	128 mm	6	906
P50805	1000 ml	150 mm	4	1192
P50806	2000 ml	192 mm	4	1790
P50807	5000 ml	263 mm	2	1969
P50808	10000 ml	330 mm	1	1982

Beakers With Handle, TPX

Code	Capacity	Height	No./case	Price/case (₹)
P50902	100 ml	73 mm	6	633
P50903	250 ml	94 mm	6	1131
P50904	500 ml	128 mm	6	2046
P50905	1000 ml	150 mm	4	2398
P50906	2000 ml	192 mm	4	3539
P50907	5000 ml	263 mm	2	3100
P50908	10000 ml	330 mm	1	3100

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## 157 MEASURING CYLINDER, PP CLASS "B"

- Moulded-in large easy to read graduation.
- Moulded-in from highest quality translucent virgin polypropylene.
- Cylinders have generous pour spout for smooth flow of liquid during pouring.
- Hexagonal shape gives stability to the base.



Code	Capacity	Sub division	Error Limit	Height	No./case	Price/case (₹)
P50301	10 ml	0.2 ml	± 0.2 ml	138 mm	12	1988
P50302	25 ml	0.5 ml	± 0.5 ml	170 mm	12	2370
P50303	50 ml	1 ml	± 1 ml	198 mm	12	2673
P50304	100 ml	1 ml	± 1 ml	257 mm	6	1712
P50305	250 ml	2 ml	± 2 ml	314 mm	6	2752
P50306	500 ml	5 ml	± 5 ml	344 mm	3	1781
P50307	1000 ml	10 ml	± 10 ml	412 mm	3	2310
P50308	2000 ml	20 ml	± 20 ml	482 mm	3	5530



## 158 MEASURING CYLINDER, TPX CLASS "B"

- These transparent graduated cylinders have excellent value.
- Moulded-in large, neat and easy to read graduations.
- Hexagonal shape gives stability to the base.
- Cylinders have generous pour spout for smooth flow of liquid during pouring.



Code	Capacity	Sub division	Error Limit	Height	No./case	Price/case (₹)
P50401	10 ml	0.2 ml	± 0.2 ml	138 mm	12	3304
P50402	25 ml	0.5 ml	± 0.5 ml	170 mm	12	4398
P50403	50 ml	1 ml	± 1 ml	198 mm	12	5043
P50404	100 ml	1 ml	± 1 ml	257 mm	6	3101
P50405	250 ml	2 ml	± 2 ml	314 mm	6	4957
P50406	500 ml	5 ml	± 5 ml	344 mm	3	3680
P50407	1000 ml	10 ml	± 10 ml	412 mm	3	5593
P50408	2000 ml	20 ml	± 20 ml	482 mm	3	9888



## 159 MEASURING CYLINDER, TPX CLASS "A"

- These transparent graduated cylinders have excellent value.
- Moulded-in large, neat and easy to read graduations.
- Hexagonal shape gives stability to the base.
- Cylinders have generous pour spout for smooth flow of liquid during pouring.
- Meet accuracy requirements of class A under "DIN 12681/ISO 6706".
- Supplied with conformity test certificate that indicates batch number and year of production that is also marked on the cylinder.



Code	Capacity	Sub division	Error Limit	Height	No./case	Price/case (₹)
P50501	10 ml	0.2 ml	± 0.1 ml	138 mm	1	978
P50502	25 ml	0.5 ml	± 0.25 ml	170 mm	1	1250
P50503	50 ml	1 ml	± 0.5 ml	198 mm	1	1427
P50504	100 ml	1 ml	± 0.5 ml	257 mm	1	1771
P50505	250 ml	2 ml	± 1 ml	314 mm	1	2809
P50506	500 ml	5 ml	± 2.5 ml	343 mm	1	4139
P50507	1000 ml	10 ml	± 5 ml	412 mm	1	6110
P50508	2000 ml	20 ml	± 10 ml	482 mm	1	10050



## 160 VOLUMETRIC FLASK. TPX, CLASS A

- These Volumetric Flasks are manufactured from the medical grade TPX polymer conforming to 21 CFR free of heavy metal and natural rubber.
- These Flasks are made from Glass like TPX offering excellent clarity.
- These Volumetric Flasks Come with polypropylene stopper.
- Meet accuracy requirements of class A under "ISO 1042".
- Supplied with conformity test certificate that indicates batch number & year of production.
- These flasks are recommended to be washed at max 60°C.
- Can be autoclaved.



Code	Capacity	Error Limit	Bulb Diameter	Height with stopper	Neck Size	No./case	Price/case (₹)
P50201	25 ml	±0.04 ml	40 mm	115 mm	10/19	1	1454
P50202	50 ml	±0.06 ml	50 mm	150 mm	12/21	1	2081
P50203	100 ml	±0.10 ml	60 mm	180 mm	14/23	1	2369
P50204	250 ml	±0.15 ml	80 mm	235 mm	19/26	1	2797
P50205	500 ml	±0.25 ml	100 mm	270 mm	19/26	1	3041
P50206	1000 ml	±0.40 ml	125 mm	310 mm	24/29	1	3613



## 161 VOLUMETRIC FLASK. TPX, CLASS B

NEW

- These Volumetric Flasks are manufactured from the medical grade TPX polymer conforming to 21 CFR free of heavy metal and natural rubber.
- These Flasks are made from Glass like TPX offering excellent clarity.
- These Volumetric Flasks Come with polypropylene stopper.
- Supplied with conformity test certificate that indicates batch number & year of production.
- These flasks are recommended to be washed at max 60°C.
- Can be autoclaved.



Code	Capacity	Error Limit	Bulb Diameter	Height with stopper	Neck Size	No./case	Price/case (₹)
P50101	25 ml	+/- 0.08 ml	40 mm	115 mm	10/19	1	1142
P50102	50 ml	+/- 0.12 ml	50 mm	150 mm	12/21	1	1449
P50103	100 ml	+/- 0.20 ml	60 mm	180 mm	14/23	1	1514
P50104	250 ml	+/- 0.30 ml	80 mm	235 mm	19/26	1	1737
P50105	500 ml	+/- 0.50 ml	100 mm	270 mm	19/26	1	2063
P50106	1000 ml	+/- 0.80 ml	125 mm	310 mm	24/29	1	2368



## 162 SCOOP, HDPE

- These scoops are used for withdrawal and movement of solid, granulates, gels and other samples.
- Round bottom for better use.
- With precise formed filling edge and comfortable, stable and robust handle.
- Natural in colour.
- Superior chemical resistance.



Code	Capacity	Total Length	No./case	Price/case (₹)
PI1901	90 ml	180 mm	12	3335
PI1902	250 ml	240 mm	12	4336
PI1903	600 ml	300 mm	6	3134
PI1904	1100 ml	360 mm	6	3669
PI1905	1500 ml	400 mm	3	3002



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## 163 DUAL PURPOSE SCOOP, PS

- ABDOS Dual purpose Scoop is designed to combine the function of a scoop, weigh boat, and funnel to make this product economically beneficial.
- These Scoops are made from high quality anti-static polystyrene that is waterproof and reduces the probability of materials sticking to the scoop.
- These scoops have locking tabs that help to retain materials.
- These scoops can withstand powders, gels, and semi-solids.
- The broad tip design keeps the scoop stable while on the scale and enables materials to be easily scooped and dispensed.
- The dosage requirements for electron beam sterilization that results in sterilized products is determined by procedures that are compliant with ISO 11137.



STERILE E

Code	Size	Dimension	Colour	No./case	Price/case (₹)
P11907	Large	127 x 90 mm	White	100	4875
P11908	Small	127 x 63 mm	White	100	5427

## 164 CONICAL FLASK, PP

- Moulded from high quality virgin Polypropylene to ensure excellent results.
- These Conical Flasks are used for routine storage and pouring applications in the laboratory.
- These Flasks have a screw cap designed with inner thread for superior sealing and better security.



121 °C



Code	Capacity	No./case	Price/case (₹)
P11620	100 ml	12	1224
P11621	250 ml	12	1486
P11622	500 ml	12	2471



## 165 WEIGHING BOATS, PS

- Abdos weighing boats are flexible with smooth surfaces to provide accurate pour-outs with minimal sample loss.
- Biologically inert and resistant to dilute weak acids, aqueous solutions, alcohols, and bases.
- All Abdos weighing boats are anti-static and facilitate the weighing of the static-affected sample.
- These boats can withstand temperature between 10°C to 70°C.
- Can be used with microwave moisture analysers.
- Suitable for use with food.
- Standard Weighing Boats are shallow with a wide, flat bottom to resist tipping.
- They have rounded corners to simplify transfer.
- Pour spout weighing boat have an innovative unique design for easy dispense of the sample without flexing the dish. 12-mil thickness provides good strength, stability and handling.



Weighing Boats Standard, PS					
Code	Size	Colour	L x W x H	No./case	Price/case (₹)
P70501	Small	Blue	46 x 46 x 8 mm	250	2037
P70502	Medium	Blue	85 x 85 x 24 mm	250	3381
P70505	Large	Blue	140 x 140 x 22 mm	250	6052

Weighing Boat with Pour Spout, PS					
Code	Size	Colour	L x W x H	No./case	Price/case (₹)
P70503	Small	White	43 x 58 x 13 mm	250	3359
P70504	Medium	White	83 x 132 x 26 mm	250	6076
P70506	Large	White	108 x 183 x 26 mm	250	11012



## 166 SPATULA, PP

- Abdos Spatula is moulded in polypropylene.
- Spatula consists of a spoon on one side while the other end is a flat construction with a knife edge.
- The edge is helpful in breaking up crystals of different salts while the spoon is used to draw salts from containers.
- Suitable for use with food.



Spatula			
Code	Length	No./case	Price/case (₹)
P70707	150 mm	120	2448
P70708	200 mm	120	3183



## 167 FUNNEL, PP

- Designed specifically for analytical chemistry.
- Each size takes a standard size filter paper.
- The body of the funnel is 60° angle.
- Provided with external and internal ribs.



Spatula					
Code	Size Diameter	Internal Diameter	Stem Length	No./case	Price/case (₹)
P70314	50 mm	50 mm	50 mm	36	555
P70315	62 mm	62 mm	67 mm	36	675
P70316	75 mm	75 mm	77 mm	36	873
P70317	100 mm	100 mm	95 mm	12	742



## 168 FUNNEL HOLDER, PP

- These are corrosion free and can hold funnels with diameter 3 in to 6 in.
- Extra plate provided can be placed to hold funnels with diameter 1 in to 3 in.
- Two tapered wedges are provided to have a firm grip on rods.



Code	Places	No./case	Price/case (₹)
P70311	Single	6	1328
P70312	Double	6	1832



## 169 POWDER FUNNEL, PP

- These Powder Funnels are used for transferring material in narrow bottles without spillage.
- Various sizes for different container sizes and volumes.
- Moulded from high quality virgin Polypropylene to ensure excellent results.



Code	Internal Diameter	No./case	Price/case (₹)
P70318	65 mm	36	873



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## 170 SAFE BOTTLE CARRIER

NEW

- ABDOS Safe Bottle Carrier is a safe and stable choice to carry reagent bottles in lab.
- The 1.5L & 4.5L capacities are ideal for labs.
- Comfortable handle design for carrying heavy loads.
- Reagent bottles are stabilized with a centre ring.
- Chemically resistant construction made from thermoplastic elastomer.



Abdos Safe Bottle Carrier

Code	Capacity	Color	No./case	Price/case (₹)
P90120	4.5L	Red	1	11100
P90121	1.5L	Red	1	7200
P90122	4.5L	Black	1	11100
P90123	1.5L	Black	1	7200
P90124	4.5L	Blue	1	11100
P90125	1.5L	Blue	1	7200
P90126	4.5L	Green	1	11100
P90127	1.5L	Green	1	7200
P90128	4.5L & 1.5L	Red	2	18000
P90129	4.5L & 1.5L	Black	2	18000
P90130	4.5L & 1.5L	Blue	2	18000
P90131	4.5L & 1.5L	Green	2	18000



## 171 SEPARATORY FUNNEL HOLDER, PP

- These are corrosion free with a front opening that allows a clear view of the solution and allows unobstructed placement of separating funnels.
- Two tapered wedges are provided to have a firm grip on rods.



Code	Places	No./case	Price/case (₹)
P70313	Single	6	2081



## 172 BURETTE CLAMP, PP

- Burette clamps are used to hold burettes, test tubes, etc.
- Completely corrosion proof as it is moulded in polypropylene.
- Spring-loaded jack in the middle provides grip to the burette and prevents it from slipping.
- Two tapered wedges are provided to ensure firm grip on the rods.
- Available in both single and double clamp.

Code	Places	No./case	Price/case (₹)
P70601	Single	6	1341
P70602	Double	6	1832



### 173 ASSORTED WORKSTATION STORAGE BIN, ACRYLIC

- Users can organize most of their commonly used laboratory disposables in one location.
- First section of the bins can be used to store tubes, vials, pipette tips, hair cap or masks.
- Second section of the bin is used to store and dispense tissue paper, Kimwipes and Parafilm M (supplied with super-sharp serrated blade).
- Third section of the bin is used to store and dispense gloves.



Code	No. of Compartment	L x W x H	No./case	Price/case (₹)
P70104	5	255 x 135 x 368 mm	1	9305

### 174 WORKSTATION STORAGE/ DISPENSER BIN, ACRYLIC

- Ideal for storing and dispensing small laboratory product such as Pipette tips, Pasture Pipette, Micro Centrifuge Tubes.
- Removable top cover allows easy filling in to the box.
- Hinged opening at the front to take out items from the bin.
- Holes at the back of the bin help it to be placed or stuck on to the wall.



Code	Size	L x W x H	No./case	Price/case (₹)
P70101	Small	200 x 140 x 190 mm	1	4530
P70102	Large	200 x 140 x 275 mm	1	6856

### 175 DRYING RACK, SS

- These Drying Racks are used for draining and drying test tubes, beakers, flasks & other lab ware.
- There are 55 pegs in the rack, 50 smaller pegs for products with small diameter & 5 large brackets are designed to hold Erlenmeyer flasks, beakers, etc.
- These pegs are plastic coated for better protection.
- The racks come with a tray at the bottom in order to avoid drops on the surface or table.



Code	Places	L x W x H	No./case	Price/case (₹)
P20302	55 places	360 x 160 x 650 mm	1	5518

### 176 UTILITY TRAY, PP

- Moulded from high quality virgin Polypropylene to ensure excellent results.
- These Utility Trays are used for routine washing and keeping labware and transporting material.
- This tray is designed for easy grip and handling heavy loads.



Code	L x W x H	No./case	Price/case (₹)
P90115	350 x 275 x 75 mm	10	4487
P90116	360 x 310 x 130 mm	6	4713



### Plain Desiccator

- Desiccators are enclosures containing desiccants for preserving moisture sensitive products.
- These desiccators are moulded-in from high quality plastics which is light and easy to handle.
- Silicone O-ring assures tight seal down to 0°C without using grease.
- Bottom part of the desiccators comes with thick perforated polypropylene disc with big holes in the middle for easy lifting.
- Use with disposable or reusable desiccant.
- Bottom part of the desiccators is white in color.

### Vacuum Desiccator

- Vacuum desiccator are moulded in high quality plastics which is light and easy to handle.
- Silicone O-ring assures tight seal down to 0°C without using grease.
- Polypropylene stopcock with PTFE.
- Bottom part of the desiccators comes with thick perforated polypropylene disc with big holes in the middle for easy lifting.
- Bottom part of the desiccators is transparent in all clear vacuum desiccator.



Plain Desiccator  
(PP/PC)



Vacuum Desiccator  
(PP/PC)



All Clear Vacuum Desiccator  
(PC/PC)

Code	Product	Plate Diameter	Inside Diameter	Flange Outer Diameter	Overall Height	No./case	Price/case (₹)
E11601	Plain Desiccator	150 mm	145 mm	170 mm	210 mm	1	1566
E11602	Plain Desiccator	200 mm	195 mm	230 mm	270 mm	1	2931
E11603	Plain Desiccator	250 mm	240 mm	275 mm	330 mm	1	4064
E11604	Plain Desiccator	300 mm	297 mm	338 mm	410 mm	1	6194
E11605	Vacuum Desiccator	150 mm	145 mm	170 mm	210 mm	1	2658
E11606	Vacuum Desiccator	200 mm	195 mm	230 mm	270 mm	1	4072
E11607	Vacuum Desiccator	250 mm	240 mm	275 mm	330 mm	1	5112
E11608	Vacuum Desiccator	300 mm	297 mm	338 mm	410 mm	1	7335
E11609	All Clear Vacuum Desiccator	150 mm	145 mm	170 mm	210 mm	1	3260
E11610	All Clear Vacuum Desiccator	200 mm	195 mm	230 mm	270 mm	1	4999
E11611	All Clear Vacuum Desiccator	250 mm	240 mm	275 mm	330 mm	1	6413
E11612	All Clear Vacuum Desiccator	300 mm	297 mm	338 mm	410 mm	1	9572

#### SPARE ACCESSORIES FOR ALL DESICCATOR

Code	Product	No./case	Price/case (₹)
E11620	Stop Cock for Vacuum Desiccator	1	1138
E11621	Silicone Ring for 150 mm Desiccator	1	208
E11622	Silicone Ring for 200 mm Desiccator	1	304
E11623	Silicone Ring for 250 mm Desiccator	1	382
E11624	Silicone Ring for 300 mm Desiccator	1	488



**Shweta Pant**

**Organization:** Indian Institute of science,  
Bengaluru

“ Good product, highly moisture resistant,  
recommended ”

Ease of Use ★★★★★

After Sales Service ★★★★★

Value for Money ★★★★★

★★★★★ Average Rating 5.0

**Application Area:** To protect the samples from humidity

The desiccator we used from Abdos is very rugged, easy to use and protects hygroscopic chemicals from humidity very efficiently which was essentially required for our samples. The cost is also reasonable for laboratory usage.

**Review Date:** 30 Aug 2022 | Abdos

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- These vacuum desiccators feature a round design with light weight yet high tensile strength.
- Maximum vacuum of 1 Torr (1.33 x 10<sup>-4</sup> Mpa) for 72 hours.
- High quality silicone gasket ensures greaseless airtight seal for cost effective and clean test environment.
- Highly transparent, shatterproof, non-corrosive, and easy to clean polycarbonate construction.
- Three-way stopcock ensures consistent and uniform vacuum draw, vacuum release, or gas exchange. The barbed fitting on each side secures attachment of tubing.
- Flange lock holds the top and the bottom together during non-vacuum conditions.
- UV-blocking model minimizes damage and discoloration of light-sensitive samples.
- In Vacuum Gauge Round Desiccator, vacuum gauge is attached at the centre of the lid while it is attached at the front door in Vacuum Gauge Cubic Desiccator.



Vacuum Gauge Round Desiccator



Vacuum Gauge Cubic Desiccator

Code	Capacity	D x H	Colour	No./case	Price/case (₹)
E11617	6 LTS	242 x 354 mm	Natural	1	39233
E11617A	6 LTS	243 x 354 mm	Amber	1	51785
E11618	10 LTS	308 x 400 mm	Natural	1	48648
E11618A	10 LTS	308 x 400 mm	Amber	1	59633
E11619	20 LTS	385 x 475 mm	Natural	1	59633
E11619A	20 LTS	385 x 475 mm	Amber	1	70618

Code	Capacity	W x D x H	Colour	No./case	Price/case (₹)
E11613	11 LTS	322 x 285 x 271 mm	Natural	1	152443
E11613A	11 LTS	323 x 285 x 271 mm	Amber	1	160065
E11614	23 LTS	420 x 397 x 281 mm	Natural	1	190554
E11614A	23 LTS	421 x 397 x 281 mm	Amber	1	198176
E11615	35 LTS	420 x 397 x 381 mm	Natural	1	240097
E11615A	35 LTS	421 x 397 x 381 mm	Amber	1	250007
E11616	45 LTS	420 x 397 x 491 mm	Natural	1	304886
E11616A	45 LTS	421 x 397 x 491 mm	Amber	1	320131

**SPECIFICATIONS :**

Code	E11617 & E11617A	E11618 & E11618A	E11619 & E11619A	E11613 & E11613A	E11614 & E11614A	E11615 & E11615A	E11616 & E11616A
Internal Volume	6 L / 0.2 cu ft	10 L / 0.4 cu ft	20 L / 0.7 cu ft	11 L / 0.4 cu ft	23 L / 0.8 cu ft	35 L / 1.2 cu ft	45 L / 1.6 cu ft
Guage Range	0 to -0.1 Mpa	0 to -0.1 Mpa	0 to -0.1 Mpa	0 to -0.1 Mpa	0 to -0.1 Mpa	0 to -0.1 Mpa	0 to -0.1 Mpa
Nozzle Diameter	9.5 mm / 0.37 inch	9.5 mm / 0.37 inch	9.5 mm / 0.37 inch	9.5 mm / 0.37 inch	9.5 mm / 0.37 inch	9.5 mm / 0.37 inch	9.5 mm / 0.37 inch
Max. Permissible Vacuum	1.33 x 10 <sup>-4</sup> Mpa	1.33 x 10 <sup>-4</sup> Mpa	1.33 x 10 <sup>-4</sup> Mpa	1.33 x 10 <sup>-4</sup> Mpa	1.33 x 10 <sup>-4</sup> Mpa	1.33 x 10 <sup>-4</sup> Mpa	1.33 x 10 <sup>-4</sup> Mpa
Max Load per shelf	-	-	-	3 Kg	5 Kg	5 kg	5 kg
Number of Shelves	-	-	-	2 standard / 4 maximum	2 standard / 4 maximum	3 standard / 5 maximum	3 standard / 6 maximum
Material - Body	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Material - Perforated Sample Tray	Polypropylene	Polypropylene	Polypropylene	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Material - Drying Agent Tray / Locker	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Material - Vacuum Seal	Silicone Rubber	Silicone Rubber	Silicone Rubber	Silicone Rubber	Silicone Rubber	Silicone Rubber	Silicone Rubber
Dimension - Interior(W x D x H)	-	-	-	248 x 254 x 238 mm	346 x 365 x 246 mm	355 x 375 x 345 mm	355 x 374 x 445 mm
Dimension - Exterior (Dia X H)	242 x 354 mm	308 x 400 mm	385 x 475 mm	-	-	-	-
Dimension - Exterior(W x D x H)	-	-	-	322 x 285 x 271 mm	420 x 397 x 281 mm	420 x 397 x 381 mm	420 x 397 x 491 mm
Net Weight	1.5 Kg	2.5 Kg	4.2 Kg	4.2 Kg	8.2 Kg	10.8 Kg	12.2 Kg

E11617A, E11618A, E11619A, E11613A, E11614A, E11615A, E11616A codes are translucent (Amber colour) Vacuum desiccators with Ultra Violet block effect. All models come with vacuum gauge.

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## 179 COPLIN JAR

- These Coplin Jars are Polypropylene staining jars that holds either 5 single or 10 back-to-back standard 75 x 25 mm slides.
- Interior of the Coplin Jar is grooved to hold the slides in an upright position.
- Flat Cap, features large milled edge for easy hand grip and has a built-in plug seal.



Code	Places	Height	No./case	Price/case (₹)
P90101	10	114 mm	12	985



## 180 SLIDE BOX, ABS

- These Slide Box are suitable for holding standard 25 x 75 mm microscope slides.
- Slide tray are mounted with cock sheet on the bottom and index list inside the lid for microscope slide identification.
- Uniform grooved slide slots separates slides and prevents it to come in contact with each other.



Code	Places	L x W x H	No./case	Price/case (₹)
P90103	25	95 x 82 x 32 mm	12	1578
P90104	50	199 x 82 x 32 mm	6	1317
P90105	100	192 x 162 x 32 mm	6	2557

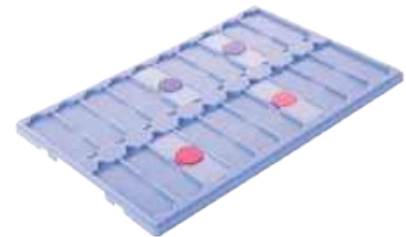


## 181 SLIDE TRAY, PS

- These Slide Trays are suitable for holding standard 25 x 75 mm microscope slides.
- Slide tray are manufactured in state in art molding facility using virgin Polysterene.
- Thumb cut area provides apace for easy slide handling.



Code	Places	L x W x H	No./case	Price/case (₹)
P90102	20	300 x 194 x 12 mm	6	3979



## 182 SLIDE DISPENSER, PS

- These Slide Dispenser are suitable for holding standard 25 x 75 mm microscope slides.
- The overall design of the dispensers make it easy to load and dispense slides.
- User can effortlessly turn either side of wheel to dispense slides one at a time.



Code	Places	L x W x H	No./case	Price/case (₹)
P90106	72	120 x 120 x 163 mm	1	1128



## 183 SLIDE MAILER, PP

- These Slide Mailer are suitable for holding standard 25 x 75 mm slides.
- They are ideal for secure shipping and storing of slides.
- Easy to close secure snaps for storage of valuable slides.



Code	Places	L x W x H	No./case	Price/case (₹)
P90107	1	85 x 42 x 5 mm	25	365
P90108	2	82 x 70 x 5 mm	25	577
P90109	3	100 x 84 x 5 mm	25	622
P90110	5	82 x 30 x 17 mm	25	668



## 184 MICRO MAGNETIC STIRRER BAR, PTFE/ALNICO V MAGNET

- For the stirring of liquids on magnetic stirrer and hot plates stirrers.
- Strong alloy magnets sheathed in pure white inert PTFE.
- Resistant to virtually all chemical attack and temperatures up to 260°C.
- For use in small vessels, e.g. test tubes, vials etc.



Code	OD(ø) X L (mm)	No./case	Price/case (₹)
P80136	2 x 2 mm	5	1284
P80137	2 x 5 mm	5	1284
P80101	2 x 7 mm	5	1284
P80102	3 x 10 mm	5	1284



## 185 MAGNETIC STIRRER BAR WITH PIVOT RING, PTFE/ALNICO V MAGNET

- Central pivot ring ensures efficient spinning even on curved or uneven bases.
- For the stirring of liquids on magnetic stirrers and hot plates stirrers.
- Strong alloy magnets sheathed in pure white inert PTFE.
- Resistant to virtually all chemical attack and temperatures up to 260°C.



Code	OD(ø) X L (mm)	No./case	Price/case (₹)
P80138	4.5 X 12	10	1689
P80103	4.5 x 15	10	1689
P80124	6 X 12	10	1886
P80104	6 x 20	10	2075
P80123	6 x 25	10	2284
P80105	6 x 30	10	2491
P80139	6 x 35	10	2658
P80125	8 X 15	10	2402
P80106	8 x 40	10	3001
P80107	8 x 50	10	3395
P80126	10 X 25	10	2924
P80108	10 X 60	5	2785
P80109	10 X 70	5	2875
P80127	13 x 75	2	2403
P80140	24 X 57	2	4732
P80141	24 X 108	2	9790
P80142	24 X 159	2	12237



## 186 CYLINDRICAL MAGNETIC STIRRER BAR, PTFE/ALNICO V MAGNET

- Plain design with rounded ends, suitable for a wide range of flat bottomed containers.
- For the stirring of liquids on magnetic stirrers and hot plates stirrers.
- Strong alloy magnets sheathed in pure white inert PTFE.
- Resistant to virtually all chemical attack and temperatures up to 260°C.



Code	OD(ø) X L (mm)	No./case	Price/case (₹)
P80143	6 X 10	10	1842
P80144	6 X 15	10	1747
P80110	6 x 20	10	1747
P80154	6 x 25	10	1875
P80111	6 x 30	10	1976
P80145	8 X 13	10	2283
P80146	8 X 20	10	2283
P80147	8 X 25	10	2756
P80148	8 X 30	10	2756
P80112	8 x 40	10	2511
P80113	8 x 50	10	3900
P80149	10 x 60	10	5219
P80114	10 x 70	10	6526
P80150	10 x 80	10	7669



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## 187 PLAIN MAGNETIC STIRRER BAR, PTFE/ALNICO V MAGNET

- Plain design for more turbulence at low speed.
- For the stirring of liquids on magnetic stirrers and hot plates stirrers.
- Strong alloy magnets sheathed in pure white inert PTFE.
- Resistant to virtually all chemical attack and temperatures up to 260°C.



Code	OD(φ) X L (mm)	No./case	Price/case (₹)
P80155	6 X 10	10	1632
P80156	6 X 15	10	1795
P80157	6 X 20	10	2121
P80158	6 X 25	10	2366
P80159	6 X 30	10	2772
P80160	8 X 13	10	2529
P80161	8 X 25	10	3425
P80162	8 X 40	10	2560
P80163	8 X 50	10	4079
P80164	8 X 60	10	4732
P80165	10 X 25	10	4079
P80166	10 X 35	10	4079
P80167	10 X 50	10	4893
P80168	10 X 60	10	5384
P80169	10 X 70	10	6037
P80170	10 X 80	10	6525



## 188 OCTAGONAL MAGNETIC STIRRER BAR, PTFE/ALNICO V MAGNET

- Shape gives increased turbulence at low speeds.
- Bars with central pivot ring.
- For the stirring of liquids on magnetic stirrers and hot plates stirrers.
- Strong alloy magnets sheathed in pure white inert PTFE.
- Resistant to virtually all chemical attack and temperatures up to 260°C.



Code	OD(φ) X L (mm)	No./case	Price/case (₹)
P80115	8 x 13	10	2074
P80116	8 x 25	10	2198
P80117	8 x 38	10	2738
P80128	8 x 51	10	3015
P80129	8 x 64	10	4263
P80151	10 x 13	10	2774
P80152	10 x 25	10	2774
P80153	10 x 38	10	3100
P80118	10 x 51	10	4149
P80119	13 x 75	10	8158



## 189 OVAL MAGNETIC STIRRER BAR, PTFE/ALNICO V MAGNET

- Best suited for round bottom flask.
- For the stirring of liquids on magnetic stirrers and hot plates stirrers.
- Strong alloy magnets sheathed in pure white inert PTFE.
- Resistant to virtually all chemical attack and temperatures up to 260°C.



Code	OD(φ) X L (mm)	No./case	Price/case (₹)
P80171	5 x 10	10	2447
P80172	6 x 15	10	2447
P80173	10 x 20	10	3426
P80174	10 x 25	10	4079
P80175	10 x 30	10	5221
P80176	16 x 30	10	6363
P80177	16 x 35	10	7342
P80178	20 x 40	10	9626
P80179	20 x 50	10	12726
P80180	20 x 64	10	14521
P80181	20 x 70	10	16316



**190 TRIANGULAR MAGNETIC STIRRER BAR, PTFE/ALNICO V MAGNET**

- Ideal for mixing difficult solutions e.g. dissolving solvents or mixing sediments.
- Spins well giving the best possible mixing action.
- For the stirring of liquids on magnetic stirrers and hot plates stirrers.
- Strong alloy magnets sheathed in pure white inert PTFE.
- Resistant to virtually all chemical attack and temperatures up to 260°C.



Code	OD(φ) X L (mm)	No./case	Price/case (₹)
P80130	14 x 25	2	1729
P80131	14 x 40	2	2057
P80132	14 x 55	2	2318
P80182	14 X 80	2	3017

**191 WINGS MAGNETIC STIRRER BAR, PTFE/ALNICO V MAGNET**

- Best suited for test tubes.
- For the stirring of liquids on magnetic stirrers and hot plates stirrers.
- Strong alloy magnets sheathed in pure white inert PTFE.
- Resistant to virtually all chemical attack and temperatures upto 260°C.



Code	OD(φ) X L (mm)	No./case	Price/case (₹)
P80183	8 x 11	2	2611
P80184	10 x 16	2	3263
P80185	13 x 10	2	2611
P80186	13 x 20	2	3263

**192 DOUBLE ENDED MAGNETIC STIRRER BARS, PTFE/ALNICO V MAGNET**

- Double ended stirrer bars have double paddle action for efficient stirring plus high stability.
- Strong alloy magnets sheathed in pure white inert PTFE.
- Resistant to virtually all chemical attack and temperatures up to 260°C.



Code	OD(φ) X L (mm)	No./case	Price/case (₹)
P80133	8 X 35	5	4324
P80134	8 X 55	5	5221

**193 CROSS-SPIN MAGNETIC STIRRER BARS, PTFE/ALNICO V MAGNET**

- Cross spin stirrer bars add speed and efficiency to your mixing requirements.
- The cross shape creates a deep vortex and provides stable and quite operation.
- Strong alloy magnets sheathed in pure white inert PTFE.
- Resistant to virtually all chemical attack and temperatures up to 260°C.



Code	OD(φ) X L (mm)	No./case	Price/case (₹)
P80135	8 x 20, 9 x 25, 10 x 30, 11 x 38, 15 x 50, 20 x 60	1 set consisting of 1 pcs each	FOR

**194 MAGNETIC RETRIEVERS, PTFE/ALNICO V MAGNET**

- Used to retrieve stirrer bar.
- Inert & leak Free.
- Moulded in from FDA approved PTFE and LNICO V MAGNET.
- Strong alloy magnets sheathed in pure white inert PTFE.
- Resistant to virtually all chemical attack and temperatures up to 260°C.



Code	OD(φ) X L (mm)	No./case	Price/case (₹)
P80187	10 x 150	2	3100
P80188	10 x 250	2	3915
P80189	10 x 350	2	4405



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Always stand for quality –  
whether giving or receiving

# 11

## Utilities

Biohazard & Autoclave  
Disposable Bags  
Gloves & Safety Goggles  
Sharp Containers  
N95 Masks & More



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## 195 BIOHAZARD DISPOSABLE BAGS, PP

- These bags include black biohazard symbol and precautionary procedures printed in five languages (Hindi, English, Spanish, French, German) for added safety.
- These bags are easy to open and close and used to dispose biohazard waste and other plastic laboratory disposables.
- High temperature steam autoclavable up to 135°C (275°F).
- Pass ASTM 1922 Tear Resistance and ASTM 1709 Dart Impact Tests.



Code	W x L (inch)	Colour	No./case	Price/case (₹)
U40105	12 x 18 inches	Red, Yellow & Natural	200	3048
U40106	12 x 24 inches	Red, Yellow & Natural	200	3403
U40103	18 x 22 inches	Red, Yellow & Natural	200	4276
U40104	25 x 35 inches	Red, Yellow & Natural	200	9056
U40114	24 x 31.5 inches	Red, Yellow & Natural	200	9056
U40120	42 x 42 inches	Red, Yellow & Natural	100	12024

Note: U40120 is available only in HMHDPE



## 196 AUTOCLAVABLE BAGS, PP

- These polypropylene autoclave bags made of 2 mil thickness are used for discarding used petri dishes, membrane filters, cell culture flasks, pipettes, culture plates & other plastic products.
- These bags are transparent.



Code	W x L (inch)	No./case	Price/case (₹)
U40112	8 x 12 inches	100	1005
U40113	12 x 24 inches	100	1937
U40108	16 x 18 inches	100	2260
U40109	16 x 24 inches	100	4237
U40116	25 x 35 inches	200	9056



## 197 TRANSPORT/ RESEALABLE BAGS WITH ZIP LOCK, PE

- These Bags can be used to store and ship samples, solids and food/suitable for use with food.
- Though it can be used for all applications it is especially used in food, water, forensic science and quality control laboratory.
- Using the rim and channel closure the bag can be closed by finger pressure and reopened repeatedly.
- Content stored in the bag would be dust free and free of contaminants.

Code	W x L (inch)	No./case	Price/case (₹)
U40110	9.8 x 10.2 inches	100	1051
U40111	13 x 13.35 Inches	100	1616



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## 198 SHARP CONTAINER, PP

- A complete Line of Containers for needle, sharps and cutting waste, hospital waste.
- Secure lock on lid makes it safe to discard with sharp waste.
- Special design on lid makes it user-friendly to use with one hand while disposing sharp needles.
- Opening design inhibits hand entry to reduce the risk of needle stick when disposing sharps.
- Clear top and translucent containers allow you to monitor the fill level.
- Puncture-resistant, durable polypropylene, can be autoclaved or incinerated.
- Clearly marked with biohazard label.



Code	Capacity(ml)	No./case	Price/each	Price/case (₹)
P50111	800 ml	40	148	5927
P50112	1200 ml	60	204	12225
P50113	3000 ml	60	278	16670
P50114	5000 ml	60	340	20374

## 199 SAFETY GOGGLES, PC

- Polycarbonate lens with side shield.
- Impact resistant and lightweight frames for comfortable eyewear.
- 99.9% UVA/UVB protection



Code	No./case	Price/case (₹)
U40101	2	771

## 200 SAFETY GOGGLES BOX, ACRYLIC

- This safety box can be set on the bench top or mounted on the wall for storage of goggles, glasses and other small lab products.
- Safety Lid keeps the box free of dust and contamination.
- Clear window helps to view the inventory from the outside.



Code	L x W x H	Size	No./Case	Price/case (₹)
P70106	23 x 16 x 18 cm	Small	1	2940
P70107	23 x 16 x 25 cm	Large	1	3465

## 201 SAFETY FACE SHIELD

- Clear face shield of polycarbonate provides high impact and splash protection.
- Ratched adjustment on the headgear provides comfortable fit.



Code	L x W x H	No./Case	Price/case (₹)
U40102	28.5 x 22.7 x 13 cm	1	3308

## 202 ABDOS DERMA GUARD LITE BLUE NITRILE GLOVES – 9.5 INCHES LENGTH

NEW

- Derma Guard Lite gloves are ideal to protect the user from direct exposure to bacteria, viruses, and chemicals.
- Its unique blue color provides quick, visual differentiation from natural rubber latex and other synthetic gloves.
- Ambidextrous, textured fingertips, and beaded cuff enhances wet & dry grip.
- Custom design enhances comfort & fit.
- These gloves are powder-free, minimizing the potential for powder-related complications.
- Conforms to ASTM D6319, EN 374, and EN 455 Standards, EU standard directive EU 2017/745 Class I, GMP, BIS, IMDR 2017



Code	Size	No./case	Price/case (₹)
U20351	Small	100x10	3500
U20352	Medium	100x10	3500
U20353	Large	100x10	3500

## 203 ABDOS DERMA GUARD BLUE NITRILE GLOVES – 9.5 INCHES LENGTH

- These gloves are ideal product to protect you from exposure to bacteria, viruses and chemicals. It also enhances your ability to offer maximum security against cross-contamination.
- Its unique blue color provides quick, visual differentiation from natural rubber latex and other synthetic gloves.
- Ambidextrous, textured palm and beaded cuff enhance wet and dry grip.
- Custom design enhance comfort and fit.
- These gloves are powder free, minimizing the potential for powder related complications.
- Conforms to ASTM D6319 - 19 and ASTM D6124 - 06 Standards.



Code	Size	No./case	Price/case (₹)
U20355	Small	100	890
U20356	Medium	100	890
U20357	Large	100	890

## 204 ABDOS DERMA GUARD WHITE LATEX GLOVES – 9.5 INCHES LENGTH

- These gloves are ideal product to protect you from exposure to bacteria, viruses and chemicals. It also enhances your ability to offer maximum security against cross-contamination.
- Ambidextrous, textured fingertips and beaded cuff enhance wet and dry grip.
- Softness provides superior comfort and natural fit.
- These gloves are powder free, minimizing the potential for powder related complications, irritation and dermatitis.
- Lower level of extractable proteins and chemical residue, hence lower incidences of allergic reactions.
- Conforms to ASTM D3578 & D6319 and EN 455 Standards.



Code	Size	No./case	Price/case (₹)
U20344	Small	100 x 10	5670
U20345	Medium	100 x 10	5670
U20346	Large	100 x 10	5670

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## 205 KIMTECH PURPLE NITRILE GLOVES, 9.5 & 12 INCHES LENGTH

- These gloves are ideal product to protect you from exposure to bacteria, viruses and chemicals. It also enhances your ability to offer maximum security against cross-contamination.
- Its unique purple color provides quick, visual differentiation from natural rubber latex and other synthetic gloves.
- Its textured fingertips enhance wet and dry grip.
- Custom design enhance comfort and fit.
- These gloves are powder free, minimizing the potential for powder related complications.

Kimtech Purple Nitrile Gloves - 9.5 inches length			
Code	Size	No./case	Price/case (₹)
U20301	Small	100	1350
U20302	Medium	100	1350
U20303	Large	100	1350

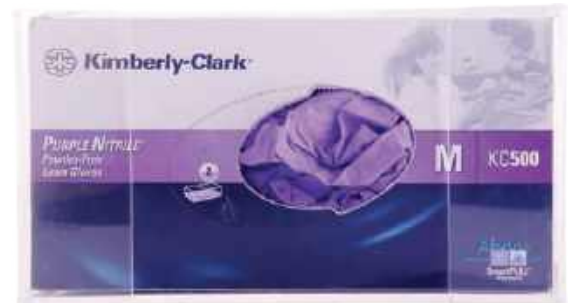
Kimtech Purple Nitrile Gloves - 12 inches length			
Code	Size	No./case	Price/case (₹)
U20304	Small	50	1500
U20305	Medium	50	1500
U20306	Large	50	1500



## 206 GLOVE BOX HOLDER, ACRYLIC

- They designate a place for gloves.
- Clear and pristine holder to give clean appearance.
- Top loading of the glove box.
- Easy to dispense the gloves through the holder.
- Each holder has holes that help it to be installed in a convenient location to the proximity of your work and tasks.

Code	No. of places	L x W x H, mm	No./case	Price/case (₹)
P70301	1	260 x 100 x 138	1	2268
P70302	2	260 x 100 x 270	1	3010
P70303	3	260 x 100 x 415	1	3985



## 207 KIMTECH SCIENCE KIMWIPES WIPERS

- These wipers is an ideal product for cleaning and wiping delicate surfaces such as beakers, lenses, slides, optical lenses, optical instruments, surface and glass layer.
- Low in lint and low extractable wipers.
- Non-abrasive wipers wont scratch on delicate surface when used wet.
- Absorbent wipers hence easily wipe up liquid and dust.
- LINTGUARD anti-stat polyshield on each pop-up box helps to further reduce the lint and static buildup.
- Multi-fold dispensing format enables one-at-a time dispensing which controls usage.
- Handy, portable pop-up box makes the product convenient to use.

Code	Sizes	Units/pack	No./case	Price/case (₹)
U20409	11.17 cm x 21.3 cm	280 sheets	60 packs	21654
U20410	37.33 cm x 42.16 cm	140 sheets	15 packs	20508



## 208 WYPALL X70 WIPERS

- An ideal product to replace cloth towels or rags.
- They can exceptionally absorb oil, grease, solvents and water, reusable and durable.
- They are designed to perform the wiping function that helps to improve productivity and performance.
- They are made from advanced HYDROKNIT material that deliver products that are absorbent, higher in strength and have more bulk.
- They are bio-degradable hence reduce disposable cost and are environmental friendly.
- Available in 100 meters roll format in white and blue colour with perforation making it easy to use.

Code	Sizes	Colour	No./case	Price/case (₹)
U20407	24.7 cm x 20 cm	White	1 Roll-100 metres	4161
U20413	24.7 cm x 20 cm	Blue	1 Roll-100 metres	4161
U20414	26 cm x 26 cm	White	50 Sheets	785
U20415	25.4 cm x 38.1cm	Blue	50 Sheets	800



## 209 WYPALL L40 WIPERS

- This product will consistently deliver the wiping performance that you need in convenient and cost effective manner.
- Wiper is highly absorbent, thus controls usage and reduces wastage.
- One time use and throw wipers, eliminates cross-contamination.
- Wipers have low lint hence do not leave particles behind.
- Versatile, highly absorbent wiper leaves surface clean and dry.
- Available in both sheet and roll format that makes it easy to use.

Code	Size (L X W)	Colour	No./case	Price/case (₹)
U20408	30.5 cm x 31.5 cm	White	56 sheets	721



## 210 PARAFILM M

- Parafilm M is a flexible, thermoplastic, waterproof self-sealing film that holds moisture loss to the minimum and offers secure sealing to the content of tubes, beakers, flasks, petri-dish and vials.
- It has excellent resistance to air, other gases, alcohol, common acids and moderately concentrated alkalis.
- At 21° C (70° F), it stretches 200% and returns partially to its original size at 82° C to 93° C (180° F to 200° F) and softens enough to make an adhesive bond between papers, cloths and leathers.

Code	Sizes (L X W)	No./case	Price/case (₹)
U30101	2 Inches x 250 feet	1 Roll	3309
U30102	4 Inches x 125 feet	1 Roll	3140



## 211 PARAFILM M DISPENSER, ACRYLIC

- Ideal for storing, dispensing and cutting Parafilm® M, tape and labels.
- Openable top lid allows easy filling into the Dispenser.
- These dispensers can hold both 2 inches and 4 inches Rolls.
- Tapes and Labels can be easily cut through super-sharp serrated blade.

Code	Capacity	L x W x H, mm	No./case	Price/case (₹)
P70401	2 inch & 4 inch	180 x 120 x 160	1	4432

\* Dispenser does not include Parafilm M



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## 212 PARAFILM M DISPENSER, ABS

- Ideal for storing, dispensing and cutting Parafilm® M, tape and labels.
- Openable top lid allows easy filling into the Dispenser.
- These dispensers can hold both 2 inches and 4 inches Rolls.
- These dispensers are designed with safety razor that sides and cuts with no danger to fingers.

Code	Capacity	L x W x H, mm	No./case	Price/case (₹)
P70402	2 inch & 4 inch	156 x 120 x 156	1	5033

\* Dispenser does not include Parafilm M



## 213 FREEZER THERMOMETER

- These thermometer can be used as probe to investigate and protect frozen and chilled samples from potential spoilage.
- Monitor temperatures inside your freezer or refrigerator with the added convenience of sound and flashing LED lights to alert out-of-range temperatures.
- Suction cup attaches the probe inside freezer/refrigerator while the thermometer secures to the outside with hook-and loop tape
- Large digital display shows freezer/refrigerator temperature plus ambient temperature•
- Set freezer range: (-9.5° to -23°C); set refrigerator range: (2° to 8°C)
- Can be used as Fahrenheit °F or Celsius °C
- Includes one AAA battery
- Probe cable measures 0.9 m; probe measures 5 mm OD x 17 mm L



Code	L x W x H, mm	No./case	Price/case (₹)
U20610	136 x 19 x 28	1	5544

## 214 CONTAINER SEAL

- Container Seal is a sealing tape designed for the vast range of bottles and containers used in laboratory application.
- Its unique elastomeric characteristics allow it to stretch and conform around the irregular perimeters of containers lids and covers to form a tight seal.
- Container Seal will block water vapor loss, reduce the rate of gas exchange and prevent entry of contaminants.
- Ideally sized (0.75" wide) tape can be easily removed from surface without leaving an adhesive residue.
- Container Seal stretches and conforms, can resist chemical & temperature range and is waterproof.
- Available in a wide variety of colours.

Code	Sizes	Colour	No./case	Price/case (₹)
U20101C	0.75 inches x 108 feet	Clear	1 Roll	8659
U20101W	0.75 inches x 108 feet	White	1 Roll	8659
U20101B	0.75 inches x 108 feet	Blue	1 Roll	8659



## 215 CRYO-BABIES AND CRYO-TAGS

- Cryo-Babies are ideally used for 0.5ml and 2.0ml tubes and Cryo-Tags are used for general-purpose applications.
- Cryo-Babies and Cryo Tags can withstand freezer temperatures down to  $-196^{\circ}\text{C}$  (liquid and vapor phase nitrogen), boiling water baths ( $100^{\circ}\text{C}$ ), autoclaving and moderate oven temperature ( $150^{\circ}\text{C}$ ). They will resist water soaking for at least 24 hours at room temperature and water vapor (100% relative humidity) at  $35^{\circ}\text{C}$  for at least 24 hours.
- These are chemically inert labels and resist most organic solvents and caustic agents.
- Made with a flexible, polyolefin label material and acrylic adhesive. This unique combination expands and contract together with temperature fluctuations resulting in strong adhesive bond.
- These labels can adhere to most plastics (100% virgin polypropylene tubes recommended), glass and metals without cracking, peeling or degrading.
- These labels accept writing from most lab markers.



Cryo - Babies			
Code	Size	No./case	Price/case (₹)
U10401	0.94 inches x 0.50 inches	1000	4850
U10402	1.28 inches x 0.50 inches	1000	4850

Cryo - Tags			
Code	Size	No./case	Price/case (₹)
U10501	1.50 inches x 0.75 inches	1000	4850

## 216 TOUGH SPOTS

- Tough Spots are ideally used for labeling 0.5ml, 1.5ml and 2.0ml micro centrifuge tubes.
- Tough Spots can withstand freezer temperatures down to  $-196^{\circ}\text{C}$  (liquid and vapor phase nitrogen), boiling water bath ( $100^{\circ}\text{C}$ ), autoclaving and moderate oven temperature ( $80^{\circ}\text{C}$ ).
- Tough Spots can endure sustained humidity and soaking, submersion in boiling water bath, autoclaving, organic solvents, caustic agents and other challenges without peeling, degrading or becoming brittle.
- Made with a flexible, polyolefin label material and acrylic adhesive. This unique combination expands and contracts together with temperature fluctuation resulting in strong adhesive bond.
- These labels can adhere to most plastics (100% virgin polypropylene tubes recommended), glass and metals without cracking, peeling or degrading.
- These labels accept writing form most lab markers.

Code	Sizes	No./case	Price/case (₹)
U10301	1/2 inches	1000	4150
U10302	3/8 inches	1000	4150
U10303	1/2 inches	5000	17399
U10304	3/8 inches	5000	17399



## 217 TOUGH TAG

- Tough Tags are ideally used for labeling 0.5ml, 1.5ml and 2.0ml tubes. White Tough Tags can also be used for labeling general purpose label and microplates.
- Tough Tags can withstand temperatures from  $-40^{\circ}\text{C}$  to  $121^{\circ}\text{C}$ , boiling water bath, autoclaving and moderate freezer temperature.
- Chemically inert, polyester sheets resist most organic solvents and caustic agents.
- Tubes labeled with Tough-Tags easily slide in and out of centrifuge rotors without binding.
- These labels can adhere to most plastics (100% virgin polypropylene tubes recommended), glass and metals without cracking, peeling or degrading.
- Tough-Tags are pre-cut peel-off labels which accept any marking instrument. They are perfectly sized to fit microcentrifuge tubes and other container in the laboratory.
- Dispensing box assists in labeling individual tubes used in small experiments.

Code	Sizes	No./case	Price/case (₹)
U10201	1.28 inches x 0.50 inches	1000	5544
U10202	0.94 inches x 0.50 inches	1000	4848



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## 218 TOUGH - TAG STATION

- Tough Tag Station can conveniently hold up to 6 roll of Tough-Tags, Tough-Spots or cryo-Tags.
- Users can utilize the ledge to easily write on labels for sample identification.

Code	No./case	Price/case (₹)
UI0601	1	12350



## 219 PETRI-SEAL

- Petri-Seal stretches and conforms to form a tight seal and is temperature resistant, water - proof and chemically resistant.
- It resists abrasion and puncture and blocks vapor loss while reducing the rate of gas exchange.
- Petri-Seal can be used with microtiter plates, petri dishes and culture plates to prevent entry of any contaminants.
- Petri-Seal remains flexible down to -30°C and can withstand continuous exposure from -40°C (with intermittent exposure up to 100°C).
- Tests have shown that PetriSeal leaves on adhesive residue even after two years.
- Available in a wide variety of colours.

Code	Sizes	Colour	No./case	Price/case (₹)
UI0901 C	0.5 inches x 108 feet	Clear	1 Roll	6197
UI0901 W	0.5 inches x 108 feet	White	1 Roll	6197
UI0901 B	0.5 inches x 108 feet	Blue	1 Roll	6197
UI0901 R	0.5 inches x 108 feet	Red	1 Roll	6197
UI0901 Y	0.5 inches x 108 feet	Yellow	1 Roll	6197



## 220 MULTIPURPOSE LABELING TAPE

- These autoclavable tapes adhere to almost any dry surface-glass, plastic, metal, paper and rubber.
- These tapes sticks throughout the most demanding procedures, is oil-proof, waterproof and acid resistant and can be steam autoclaved.
- Holds in a wide range of temperatures and transfers and transfers cleanly from one surface to another, leaving no messy residue.
- These labels accept handwritten notations inscribed with pen, pencil or marker.

Code	Sizes	Colour	No./case	Price/case (₹)
UI0701 W	0.75 inches x 500 inches	White	1 Roll	1400
UI0701 B	0.75 inches x 500 inches	Blue	1 Roll	1400
UI0701 G	0.75 inches x 500 inches	Green	1 Roll	1400
UI0701 O	0.75 inches x 500 inches	Orange	1 Roll	1400
UI0701 Y	0.75 inches x 500 inches	Yellow	1 Roll	1400
UI0701 R	0.75 inches x 500 inches	Red	1 Roll	1400



## 221 MULTI-TAPE DISPENSER

- These dispensers facilitate easy dispensing from one convenient location.
- Special design allows fast addition or replacement of label roll.

Code	Sizes	No./case	Price/case (₹)
U20501	for 500 inches Roll	1	10900



## 222 SPECIALITY INDICATOR TAPE FOR STEAM AUTOCLAVE

- Versatile tape indicates completion of normal steam sterilization process.
- All specialty steam indicator tape accepts handwritten notations, may be used to seal and identify almost all laboratory material before and after processing.
- Change of colour of the written matter from white to dark after completion of autoclave cycle.

Code	Size	No./case	Price/case (₹)
U20802	1 inch x 500 inches	1 Roll	3150





**Uncontrolled inconsistency  
is the exact opposite of quality**

# 12

## Equipments

**Magnetic Stirrers & Hotplates  
Digital Dry Bath & Thermo Mix  
Rotating Mixers & Shakers  
Digital Incubators  
Oil-free Vacuum Pumps & More**



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- SWIRLTOP magnetic stirrer is used in biotech labs, provides better mixing & is ideal for application of physical & chemical analysis.
- Its body is made of ABS material.
- It comes with automatic reverse rotation for better mixing result.
- Top plate is made from chemically resistant materials (PET).



Code	Product	Workplate Size	No./case	Price/case (₹)
E11307	Ultra Flat Magnetic Stirrer	90 x 90 mm	1	16045
E11308	Eco Magnetic Stirrer, Round	∅120 mm	1	12097
E11309	Eco Magnetic Stirrer, Square	120 x 115 mm	1	12097

#### SPECIFICATIONS :

Code	E11307	E11308	E11309
Voltage	220-240V	220-240V	220-240V
Frequency	50-60Hz	50-60Hz	50-60Hz
Motor Type	Motor less	Brushless DC Motor	Brushless DC Motor
Stirring position	01	01	1
Speed range	15-1500 rpm	300-2000 rpm	300-2000 rpm
Max. stirring quantity (H <sub>2</sub> O)	0.8L	1.5L	1.5L
Maximum magnetic bar (length)	40mm	40mm	40mm
Dimensions of work plate	90x90mm	∅120mm	120x115 mm
Dimensions (W x D x H)	175 x 120 x 15 mm	150 x 145 x 50 mm	150 x 144 x 54 mm
Weight	0.3kg	0.3kg	0.3 kg
Speed setting	Button	Scale	Scale
Permissible ambient Temperature	5-40°C	5-40°C	5-40°C
Permissible relative humidity	80%	80%	80%
Protection Class	IP21	IP21	IP21



E11307



E11308



E11309

- Swirl Top unit features an extremely durable, chemical resistant white stainless steel ceramic coated surface that allows immediate heat transfer.
- LED Display shows temperature and speed.
- External Temperature sensor accessory is available with accuracy of  $\pm 0.2^{\circ}\text{C}$ .
- Extremely accurate digital control system is ideal for applications of analytical and biological laboratory.
- Swirl Top has advanced microprocessor control with convenient turn knobs that allows quick, precise adjustment and maintains accurate temperature and speed.
- Large, backlit LED display provides constant visualization of speed and temperature while safety LED indicates when the top plate is above  $50^{\circ}\text{C}$ .
- This digital system is compatible with a wide variety of popular glass beakers, flasks, bottles and vessels.
- Heat resistant ABS casing.



#### SWIRLTOP – LED Digital Magnetic Stirrer & Hot Plate

Code	Product	Circular Workplate Size	No./case	Price/case (₹)
E11231	LED Digital Magnetic Stirrer & Hot Plate with support rod (E11232) & external temperature probe (E11233)	13.5 cm	1	32965

#### Spare Accessories

Code	Product	No./case	Price/case (₹)
E11232	SP - Support Rod	1	5579
E11233	ETP - External Temperature Probe	1	11533

#### SPECIFICATIONS :

Voltage	220-240V
Frequency	50-60Hz
Motor type	DC Motor (Brushless)
Maximum stirring capacity	3L
Work plate diameter	5 Inch
Work plate material	SS Cover Ceramic Coating
Shaking movement	Orbital
Temperature range	Room Temperature – $280^{\circ}\text{C}$
Speed range	200 – 1500 rpm
Dimensions (W x D x H)	150 x 260 x 100 mm
Weight	1.8 kg
Permissible ambient temperature	5 – $40^{\circ}\text{C}$
Permissible relative humidity	80%
Protection Class	IP42



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- New Abdos Swirltop Digital Magnetic Hotplate Stirrer comes with Aluminium cover with ceramic coating, strong corrosion resistance, easy to clean.
- With maximum heating temperature of 380°C, maximum stirring speed of 1500rpm, and maximum stirring volume of 20L H<sub>2</sub>O.
- LCD display for speed, time and temperature parameters.
- Protection Features – Dry burn protection, overcurrent protection, ground fault protection, and over-temperature protection.



#### SWIRLTOP – LCD Digital Magnetic Stirrer & Hotplate

Code	Product	No./case	Price/case (₹)
E11675	Swirltop LCD Digital Magnetic Hotplate Stirrer with Clamp Rod (E11654) & External Temperature Probe (E11233)	1	55725

#### Spare Accessories

Code	Product	No./case	Price/case (₹)
E11233	ETP - External Temperature Probe	1	11533
E11654	SS/Support Rod-Seven Inch	1	5536

#### SPECIFICATIONS :

Work Plate dimensions & Material	184x184mm, Aluminium Cover with ceramic coating
Motor Type	DC Brush motor
Max. Stirring quantity (H <sub>2</sub> O)	20L
Max. Magnetic Bar (Length)	80x10mm
Speed range	80-1500rpm
Speed & Temperature Display	LCD
Display resolution (Temp & Speed)	±0.1°C, 1rpm
Heating temperature range	Room Temp. – 380°C, increment 1°C
Heating liquid temperature control accuracy	±1°C (<100°C), ±1% (>100°C)
Overheating temperature protection	410°C
Power	900W
Voltage, Frequency	100-120V, 60Hz; 200-240V, 50Hz
“Hot” Warning	50°C
Protection Class	IP21
Dimensions (WxDxH)	366x240x126mm
Weight	3.5kg
Permissible ambient temperature and humidity	5-40°C, 80% RH



- Swirl top 380°C Digital Magnetic stirrers & Hotplate include all leading safety standards and is chemically-resistant with aluminium ceramic coating work plate. They can be used in physical, chemical, analytical and biological laboratories.
- Digital temperature control with max. temperature at 380°C.
- Digital speed control with max. speed up to 1500rpm.
- High resolution LCD displays for actual temperature and speed.
- Brushless DC motor is maintenance free.
- Ceramic coated plate for chemical resistance and easy to clean.
- Aluminium cover with ceramic work plate, allows for immediate heat transfer.
- Hot warning sign if temperature is above 50°C.
- Max. stirring quantity of H2O at 5L.

## SWIRLTOP- 380°C Digital Magnetic Stirrers &amp; Hotplate

Code	Product	Workplate Size	No./case	Price/case (₹)
E11224	380° Digital Magnetic Stirrer & Hot Plate with Support Rod (E11232) and External Temperature Probe (E11233)	14.0 x 14.0 cm	1	44951

## Spare Accessories

Code	Product	No./case	Price/case (₹)
E11232	SP - Support Rod	1	5579
E11233	ETP - External Temperature Probe	1	11533

## SPECIFICATIONS :

Voltage	220-240V
Frequency	50-60Hz
Motor type	DC Motor (Brushless)
Maximum stirring capacity	5L
Work plate dimensions	140x140mm
Work plate material	Aluminium Cover with Ceramic Coating
Temperature range	Room Temperature – 380°C
Speed range	200 – 1500rpm
External Temperature Sensor	PT1000 (Accuracy ±0.2°C)
Dimensions (W x D x H)	320x180x108mm
Weight	2.2kg
Permissible ambient temperature	5 – 40°C
Permissible relative humidity	80%
Protection Class	IP21



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- LED display for precise monitoring of speed and temperature for Magnetic stirrer & Hot plate.
- Built in PID Controller ensures the safe heating of the medium with overheating protection.
- Max heating plate temperature 550°C.
- Glass ceramic work plate provides excellent chemical resistant performance and efficient heat transfer.
- External temperature control is possible by connecting the temperature sensor (PT 1000) with an accuracy at  $\pm 0.2^{\circ}\text{C}$ .
- Digital speed control.
- Maximum Speed at 1500rpm.
- Outstanding brushless DC motor performance enables more stirring power.
- Two rotating knobs enable the easy and direct change of speed and temperature.
- HOT WARNING will flash when the work plate temperature is above 50°C, even when the hot plate is turned off.



SWIRLTOP - LED Digital Magnetic Stirrer & Hot Plate				
Code	Product	Workplate Size	No./case	Price/case (₹)
E11650	LED DIGITAL Magnetic Stirrer & Hotplate with support Rod (E11654) & External Temperature Probe (E11233)	18.4 x 18.4 cm	1	70037
E11651	LED DIGITAL Hotplate with support Rod (E11654) & External Temperature Probe (E11233)	18.4 x 18.4 cm	1	58576

Spare Accessories			
Code	Product	No./case	Price/case (₹)
E11654	SS/Support Rod-Seven Inch	1	5536
E11233	ETP - External Temperature Probe	1	11533



**SPECIFICATIONS :**

	E11650	E11651
Code	E11650	E11651
Voltage	220-240V	220-240V
Frequency	50-60 Hz	50-60 Hz
Motor Type	Shaded Pole Motor	Shaded Pole Motor
Maximum stirring capacity	10 L	NA
Work plate dimensions	184 x 184mm (7Inch)	184 x 184mm (7Inch)
Work plate material	Glass Ceramic	Glass Ceramic
Temperature range	Room Temperature – 550°C, Increment 5°C	Room Temperature – 550°C, Increment 5°C
Overheating protection	580°C	580°C
Temperature Display accuracy	$\pm 1.0^{\circ}\text{C}$	$\pm 1.0^{\circ}\text{C}$
Speed display	NA	NA
Temperature display	LED	LED
Speed range	0 – 1500 rpm, resolution $\pm 1$ rpm	NA
Maximum magnetic bar (length)	80mm	NA
Dimensions (W x D x H)	215 x 360 x 112mm	215 x 360 x 112mm
Weight	4.5 kg	4.5 kg
Permissible ambient temperature	5 – 40°C	5 – 40°C
Permissible relative humidity	80%	80%
Protection class	IP21	IP21

- SWIRLTOP Unit features an extremely durable stainless steel plate with anti-slip and anti-corrosion silicon cushion.
- SWIRLTOP advanced Microprocessor based electronic speed control motor provides constant speed.
- High performance multi-position magnetic stirrer with uniform temperature distribution.
- Micro-processor based stirring controls to provide consistency with various samples.
- Brushless DC Motor for maintenance free & quiet operations.



Code	Product	Workplate Size	No./case	Price/case (₹)
E11235	10 Channel Magnetic Stirrer	18 x 45 cm	1	118616
E11236	10 Channel Magnetic Stirrer & Hot Plate	18 x 45 cm	1	171335

#### SPECIFICATIONS :

Code	E11235	E11236
Voltage	220-240V	220-240V
Frequency	50-60 Hz	50-60 Hz
Dimension of work plate	180 x 450 mm	180 x 450 mm
Speed display	Scale	Scale
Temperature range	NA	Room Temperature – 120°C
Motor Type	Brushless DC Motor	Brushless DC Motor
Stirring Speed	0 – 1100 rpm	0 – 1100 rpm
Stirring Position	10	10
Maximum Stirring capacity	0.4 L(Each stirring position)	0.4 L(Each stirring position)
Max. Stirring Bar (Length)	40 mm	40 mm
Plate Material	Stainless Steel with silicon	Stainless Steel with silicon
	Coating	Cushion
Dimensions (W x D x H)	205 x 622 x 65mm	182 x 622 x 65mm
Weight	3.2 kg	3.2 kg
Permissible ambient temperature	5 – 40°C	5 – 40°C
Permissible relative humidity	80%	80%
Protection class	IP20	IP20



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- Swirlmax is a classic tube roller that can be used for rocking and rolling for complete mixing.
- It has a wide speed range of 0-70rpm.
- It has a total of six rollers with small footprints and it is very easy to clean.
- Swirlmax has a quiet DC brushless motor which is reliable, sound free and maintenance free.
- Swirlmax can be used in cold rooms or in incubators.



Code	Product	No./case	Price/case (₹)
E11230	Tube Roller	1	30115

#### SPECIFICATIONS :

Voltage	220-240V
Frequency	50Hz
Power	25W
Motor Type	Brushless DC Motor
Rocking Motion	Rocking and Rolling
Amplitude	24mm
Max. load capacity	4kg
Number of Rollers	6
Roller Size	280mm
Speed Range	0-70rpm
Speed Display	Scale
Operation Type	Continuous operation
Dimensions (W x D x H)	250 X 485 X 100 mm
Weight	4.5 kg
Permissible ambient temperature	5-40°C
Permissible ambient humidity	80%
Protection Class	IP21



- ABDOS-LED Digital Dry Bath Heaters are available in single and dual block configurations and provide a broad temperature range up to 150°C, which makes them useful for a variety of applications in molecular biology, histology, clinical, environmental, and industrial laboratories.
- They have been designed to incorporate the best combination of features including block capacity, dual displays, and an external temperature probe that gives life science researchers the confidence and efficiency they need when working with precious lab samples.
- This is ideal for including melting and boiling point determination, enzyme reactions, incubation and activation of cultures, immunoassays, DNA denaturation, culture and media tests, coagulation, tests, blood urea nitrogen determinations and in-situ hybridizations.
- The blocks are precision machined to match the conical size and shape of 0.5, 1.5, 2.0, 15 and 50ml tube sizes, providing unsurpassed temperature transfer. Assorted blocks are available for compatibility with nearly all common laboratory tubes and plates.
- Various optional blocks are available for best performance.
- Protection class according to DIN EN 60529.



HOTBLOCK – LED Digital Dry Bath					
Code	Product	Block Capacity	Temperature Range	No./case	Price/case (₹)
E11330	LED Digital Dry Bath with E11333	Single	Ambient +5°C -120°C	1	46798
E11360	LED Digital Dry Bath with E11363	Single	Ambient +5°C -105°C	1	44569
E11370	LED Digital Dry Bath with E11363 & E11364	Dual	Ambient +5°C -105°C	1	74667
E11380	LED Digital Dry Bath with E11363	Single	Ambient +5°C -150°C	1	55566
E11390	LED Digital Dry Bath with E11363 & E11364	Dual	Ambient +5°C -150°C	1	81613

**\* Standard Block can not be changed.**

**\* Additional Block to be purchased separately.**

Spare Accessories of E11330				
Code	Product	Places	No./case	Price/case (₹)
E11331	Heating Block, used for 0.2 ml	54	1	15803
E11332	Heating Block, used for 0.5 ml	40	1	15803
E11333	Heating Block, used for 1.5 ml	40	1	15803
E11338	Heating Block, used for 2.0 ml	40	1	15803
E11334	Heating Block, used for 5/15 ml	28	1	15803
E11335	Heating Block, used for 50 ml	8	1	15803
E11336	Heating Block, used for 0.2, 0.5, 1.5/2.0 ml	18	1	15803
E11337	Heating Block, used for 96/384 Microplate	96 /384 Microplate	1	15803
E11339	Heating Block, used for 2.0 ml (Thin)	40	1	15803
E11368	Heating Block, used for 1.5 ml (Thin)	40	1	15803

Spare Accessories of E11360, E11370, E11380, E11390				
Code	Product	Places	No./case	Price/case (₹)
E11361	Heating Block, used for 0.2 ml	30	1	15803
E11362	Heating Block, used for 0.5 ml	20	1	15803
E11363	Heating Block, used for 1.5 ml	20	1	15803
E11364	Heating Block, used for 2 ml	20	1	15803
E11365	Heating Block, used for 5 ml	12	1	15803
E11366	Heating Block, used for 15 ml	12	1	15803
E11367	Heating Block, used for 50 ml	4	1	15803



E11331



E11333



E11335



E11336



E11361



E11364



E11365



E11367

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SPECIFICATIONS :	E11330	E11360	E11370	E11380	E11390
Voltage	220-240V	220-240V	220-240V	220-240V	220-240V
Frequency	50-60Hz	50-60Hz	50-60Hz	50-60Hz	50-60Hz
Adaptor block material	Aluminium	Aluminium	Aluminium	Aluminium	Aluminium
Maximum heating rate	5.5°C/min	5.5°C/min	5.5°C/min	5.5°C/min	5.5°C/min
Heating temperature Range	Room Temperature +5-120°C	Room Temperature +5-105°C	Room Temperature +5-105°C	Room Temperature +5-150°C	Room Temperature +5-150°C
Temperature Setting Range	15-120°C	25-105°C	25-105°C	25-150°C	25-150°C
Temperature Control accuracy	±0.5°C	25-90 : ±0.3 90-105 : ±0.6	25-90 : ±0.3 90-105 : ±0.6	25-90 : ±0.3 90-150 : ±0.6	25-90 : ±0.3 90-150 : ±0.6
Temperature Uniformity @ 37°C	±0.5	±0.2	±0.2	±0.2	±0.2
Sound Alarming Function	-	Yes	Yes	Yes	Yes
Timer	Yes	Yes	Yes	Yes	Yes
Time setting range	0 Min - 99Hr 59Min	0 Min - 99Hr 59Min	0 Min - 99Hr 59Min	0 Min - 99Hr 59Min	0 Min - 99Hr 59Min
Operation type	Continuous/timed operation	Continuous/timed operation	Continuous/timed operation	Continuous/timed operation	Continuous/timed operation
External Sensor	-	Yes	Yes	Yes	Yes
USB Interface	-	Yes	Yes	Yes	Yes
Dimension (W x D x H)	175 x 290 x 85mm	290 x 210 x 120mm	290 x 210 x 120mm	290 x 210 x 120mm	290 x 210 x 120mm
Permissible ambient temperature	10-40°C	10-40°C	10-40°C	10-40°C	10-40°C
Permissible humidity	<80%	<80%	<80%	<80%	<80%
Protection Class	IP21	IP21	IP21	IP21	IP21



E11330



E11360 & E11380



E11370 & E11390

- ABDOS Thermo Mix Series allows for precise and efficient shaking and mixing as well as excellent temperature accuracy and uniformity, offering a wide range of applications, such as Gene Synthesis, Gene Purification, Gene Denaturation, Protein Denaturation, Enzymatic reaction, Bacterial growth and many more.
- ABDOS Thermo Mix is equipped with quick interchange of blocks with magnet Adhesion technology and without any tools.
- It is programmable and has three points calibration with precise temperature control for heating and cooling.



Thermo Mix – LCD Digital			
Code	Product	No./case	Price/case (₹)
E11340	TFT Digital Thermo Mix with Heating and Cooling and Mixing with 1.5 ml Heating Block (E11346)	1	224196
E11341	TFT Digital Thermo Mix with Heating and Cooling with 1.5 ml Heating Block (E11346)	1	176155
E11342	TFT Digital Thermo Mix with Heating and Mixing with 1.5 ml Heating Block (E11346)	1	176155

Spare Accessories					
Code	Product	Speed	Places	No./case	Price/case (₹)
E11343	Heating Block, used for 0.2 ml / 96 well PCR plate	1500rpm	96	1	24021
E11345	Heating Block, used for 0.5 ml	1500rpm	24	1	24021
E11346	Heating Block, used for 1.5 ml	1500rpm	24	1	24021
E11347	Heating Block, used for 2.0 ml	1500rpm	24	1	24021
E11348	Heating Block, used for 5 ml (Round Bottom)	1500rpm	8	1	27223
E11358	Heating Block, used for 5ml (Conical Bottom)	1400rpm	8	1	35232
E11349	Heating Block, used for 15 ml	800rpm	8	1	48043
E11350	Heating Block, used for 50 ml	600rpm	4	1	40034

\* Standard Block can not be changed.

\* Additional Block to be purchased separately.

#### SPECIFICATIONS :

Code	E11340	E11341	E11342
Voltage	220-240 V	220-240 V	220-240 V
Frequency	50-60 HZ	50-60 HZ	50-60 HZ
Functions	Heating, cooling & Mixing	Heating & Cooling	Heating & Mixing
Adaptor Block Material	Aluminium	Aluminium	Aluminium
Temperature Range	Heating : RT-100°C Cooling : 15°C - below room temp.	Heating : 25°C-110°C Cooling : 15°C - below room temp.	Heating : RT-100°C
Setting Temperature Range	0 to 100°C	-5 to 110°C	RT to 100°C
Temperature Uniformity @ 20-45°C	±0.5°C	±0.5°C	±0.5°C
Temperature control accuracy@ 20-45°C	±0.5°C	±0.5°C	±0.5°C
Maximum Heating Rate	5.5°C/min	5.5°C/min	5.5°C/min
Maximum Cooling Rate	5°C/min(100°C-25°C) 0.5°C/min(below 25°C)	2.5°C/Min(100°C-RT) 0.5°C/Min(below RT)	- -
Mixing Frequency	200-1500 rpm	NA	200-1500 rpm
Mixing Orbit	3 mm	NA	3 mm
Program	9	9	9
Overheating Protection	150°C	150°C	150°C
Dimension(WDXH)	200 x 235 x 120mm	200 x 235 x 120mm	200 x 235 x 120mm
Weight	7.3 kg	7.3 kg	7.3 kg

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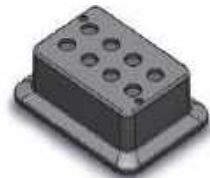
E11345



E11346



E11347



E11348



E11349



E11350



E11344



E11343

- Swirlex overhead stirrer is widely used in chemical synthesis, pharmaceutical synthesis, physical and chemical analysis, petrochemical industry and more.
- Reliability, long continuous service and outstanding performance are its hallmarks.
- Digital LCD/LED display for precise monitoring of set and actual speed.
- LCD/LED Torque displays real time information on viscosity changes.
- Protection and safety circuits ensure automatic cut-off in an anti-stall or overload conditions.
- Provides a constant speed even with changes in viscosities of sample.
- RS232 interface PC can control and document all operation values



## Swirlex – Digital Overhead Stirrer

Code	Product	Maximum Stirring Quantity	No./case	Price/case (₹)
E11310	LED Digital Overhead Stirrer with Universal Plate Stand including support (holder) & fixing device (E11312) and Stainless Steel crossed Stirrer(E11313)	20L	1	83473
E11311	LED Digital Overhead Stirrer with Universal Plate Stand including support (holder) & fixing device (E11312) and Stainless Steel crossed Stirrer(E11313)	40L	1	104381
E11321	LCD Digital Overhead Stirrer with Timer and Universal Plate Stand including support (holder) & fixing device (E11312) and Stainless Steel grand crossed Stirrer(E11324)	70L	1	157106
E11322	LCD Digital Overhead Stirrer with Timer and Grand Plate Stand including support (holder) & fixing device (E11323) and Stainless Steel grand crossed Stirrer(E11324)	70L	1	164962

## Spare Accessories for E11310 &amp; E11311

Code	Product	Dimensions	No./case	Price/case (₹)
E11312	Universal Plate Stand including support (holder) & fixing device	20 x 31 cm (L x W)	1	12764
E11313	Stainless Steel Crossed Stirrer	40 x 5 cm (L x $\phi$ )	1	1532
E11314	Stainless Steel Straight Stirrer	40 x 6 cm (L x $\phi$ )	1	3829
E11315	Stainless Steel Blade Stirrer	40 x 6.8 cm (L x $\phi$ )	1	3829
E11316	Stainless Steel Centrifugal Stirrer	40 x 9 cm (L x $\phi$ )	1	3829
E11317	PTFE Crossed Stirrer	35 x 6.5 cm (L x $\phi$ )	1	5896
E11318	PTFE Straight Stirrer	35 x 7 cm (L x $\phi$ )	1	5896
E11319	PTFE Blade Stirrer	35 x 6.8 cm (L x $\phi$ )	1	5896
E11320	PTFE Centrifugal Stirrer	35 x 8.5 cm (L x $\phi$ )	1	5896

## Spare Accessories for E11321 &amp; E11322

Code	Product	Dimensions	No./case	Price/case (₹)
E11323	Universal Grand Plate Stand including support (holder) & fixing device	33.5 x 46.3 cm (L x W)	1	46305
E11324	Stainless Steel Grand Crossed Stirrer	60 x 10 cm (L x $\phi$ )	1	4629
E11325	Stainless Steel Grand blade Stirrer	60 x 10 cm (L x $\phi$ )	1	4629
E11326	Stainless Steel grand anchor Stirrer	60 x 10 cm (L x $\phi$ )	1	4629
E11327	Stainless Steel grand Centrifugal Stirrer	60 x 10 cm (L x $\phi$ )	1	4629



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**SPECIFICATIONS :**

Code	E11310	E11311	E11321 & E11322
Voltage	220-240V	220-240V	220-240V
Frequency	50-60Hz	50-60Hz	50-60Hz
Power	70W	130W	200W
Speed Range	50 – 2200rpm	50 – 2200rpm	50 – 1100rpm
Speed Display	LED	LED	LCD
Max. Stirring Quantity	20L	40L	70L
Max Torque	40Ncm	60Ncm	300Ncm
Max Viscosity	10000mPas	50000mPas	100000mPas
Chuck range diameter	0.5 – 10mm	0.5 – 10mm	0.5 – 10mm
Overload Protection Display	LED, Motor Automatically Stops	LED, Motor Automatically Stops	LCD
Dimensions (W x D x H)	83 x 186 x 220 mm	83 x 186 x 220 mm	83 x 186 x 220 mm
Weight	2.8 kg	2.8 kg	3.2 kg
Data Interface RS232	No	No	Yes
Permissible ambient Temperature	5-40°C	5-40°C	5-40°C
Permissible ambient Humidity	80%	80%	80%
Protection class	IP21	IP21	IP21



- Swirlx-Vortex is suitable for touch or continuous operation.
- Used for gentle shaking to rapid mixing of samples.
- These vortex shakers contain specially designed steel base with vacuum suction feet, excellent for damping vibration.
- A wide range of accessories are also available.



SWIRLEX – Vortex Shaker				
Code	Product	Work Plate Dimensions	No./case	Price/case (₹)
E11190	Swirlx Adjustable Vortex Shaker with standard cup	4 mm	1	14064

Spare Accessories				
Code	Product	No./case	Price/case (₹)	
E11191	Tube holding Rod	1	4995	
E11192	Universal 100mm top plate with 4 vacuum suction feet	1	1687	
E11198	Platform pad for tubes and vessels ø 99 mm	1	1890	
E11197	Tube Adapter for 48 holes test tube ø 6mm	1	1890	
E11193	Tube Adapter for 15 holes test tube ø 10mm	1	1890	
E11194	Tube Adapter for 16 holes test tube ø 12mm	1	1890	
E11195	Tube Adapter for 8 holes test tube ø 16mm	1	1890	
E11196	Tube Adapter for 8 holes test tube ø 20mm	1	1890	

Kindly Note: E11192 is required to run E11198, E11197, E11193, E11194, E11195, E11196 & E11196 Adapter.

**SPECIFICATIONS :**

Voltage	220-240V
Frequency	50-60Hz
Speed Range	0 – 3000 rpm
Shaking Movement	Orbital
Motor Type	Shaded Pole Motor
Orbital Diameter	4mm
Run Type	Continuous/Touch operation
Dimensions (W x D x H)	127 x 160 x 130mm
Weight	2 kg
Power	60W
Permissible ambient temperature	5-40°C
Permissible relative humidity	80%
Protection Class	IP20

Note : Accessories to be purchased seperately



Scan to watch product video.



Organization: IRL STDC

“ Great recommended ”

★★★★★ Average Rating 5.0

Ease of Use ★★★★★

Application Area: Using for making homogenized solution and innoculum

After Sales Service ★★★★★

Easy to use, vortexing is good and useful for laboratory

Value for Money ★★★★★

Review Date: 12 Jul 2023 | Abdos

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- SWIRLEX - Microplate Mixer is used for holding single or double micro plates with an SBS footprint.
- This is widely used in life sciences including microbiology, cell and molecular biology, immunology and biotechnology for various mixing applications with optional adapters.
- The high speed and small diameter combine to offer a true vortexing action in each well of the micro plate. This action ensures both complete and uniform mixing.



SWIRLEX - Microplate Mixer			
Code	Product	No./case	Price/case (₹)
E11200	Swirlex Microplate Mixer Including Microplate Clamp(E11201) as standard	1	40425

Spare Accessories			
Code	Product	No./case	Price/case (₹)
E11201	Microplate clamp	1	962
E11202	Double microplate clamps	1	1082



E11202

#### SPECIFICATIONS :

Voltage	220-240V
Frequency	50-60Hz
Shaking Movement	Orbital
Speed Range	Single Microplate : 0-1500 rpm Double Microplate : 0-1000 rpm
Orbit Diameter	4.5 mm
Maximum Shaking Weight (With accessory)	0.5 Kg
Motor Type	Brushless DC Motor
Dimensions (W x D x H)	150 x 260 x 80mm
Permissible ambient temperature	5-40°C
Permissible relative humidity	80%
Protection Class	IP20

- Wavex tube rotators provide gentle but effective mixing of biological samples, held in 1.5 ml to 50 ml tubes.
- Used in a variety of applications including immune precipitations, prevention of blood coagulation & latex diagnostics.
- Wavex-Classic Tube Rotator has Disk Type Design.



SWIRLEX - Classic Tube Rotator			
Code	Product	No./case	Price/case (₹)
E11300	Wavex-Classic Tube Rotator (with E11301, E11302 & E11303)	1	41508

Spare Accessories			
Code	Product	No./case	Price/case (₹)
E11301	Plastic Clips for 1.5 ml x 12 micro centrifuge tubes, Disk accessory	12	694
E11302	Plastic Clips for 15 ml x 12 micro centrifuge tubes, Disk accessory	12	866
E11303	Plastic Clips for 50 ml x 12 micro centrifuge tubes, Disk accessory	12	1098

#### SPECIFICATIONS :

Voltage	220-240V
Frequency	50-60Hz
Power	20W
Motor Type	DC Motor
Tilt Angle	90°
Speed Range	0-80rpm
Speed Display	Scale
Operation Type	Continuous
Dimensions (W x D x H)	220 x 300 x 310 mm
Weight	2 kg
Permissible ambient Temperature	5-40°C
Permissible ambient Humidity	80%
Protection Class	IP21



- Wavex tube rotators provide gentle but effective mixing of biological samples, held in 1.5 ml to 50 ml tubes.
- Used in a variety of applications including immune precipitations, prevention of blood coagulation & latex diagnostics.
- Wavex tube rotator has a disk type design.
- LCD display and digital speed control allows procedures to be accurate.
- Speed range of 10 to 70 rpm.
- Wavex tube rotator has an adjustable mixing angle between 0 - 90°.
- Wavex tube rotator has dual dish accessories for larger tubes.



#### SWIRLEX – Microplate Mixer

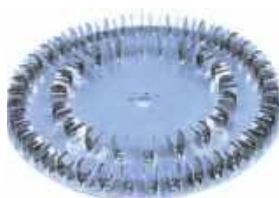
Code	Product	No./case	Price/case (₹)
E11270	Wavex-LCD Digital Tube Rotator with Disk accessory for 50ml x 8 Centrifuge Tubes (E11272)	1	86683

#### Spare Accessories

Code	Product	No./case	Price/case (₹)
E11271	Disk accessory for 1.5 ml x 60 micro centrifuge tubes	1	12502
E11272	Disk accessory for 50 ml x 8 centrifuge tubes	1	6252
E11273	Disk accessory for 15 ml x 16 centrifuge tubes	1	6878
E11274	Disk support rods used with disk accessories	4	3185

#### SPECIFICATIONS :

Voltage	220-240V
Frequency	50Hz / 60Hz
Power	40 W
Motor Type	Brushless DC Motor
Tilt Angle	0 - 90°
Speed Range	10-70 rpm
Speed & Timer Display	LCD
Time Setting Range	1 - 1199 min.
Operation Type	Continuous / timed operation
Dimensions (W x D x H)	210 x 280 x 300 mm
Weight	8 kg
Permissible ambient Temperature	5-40°C
Permissible ambient Humidity	80%
Protection Class	IP 21



E11271



E11272



E11273



E11274

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- Wavex tube rotators provide gentle but effective mixing of biological samples, held in 1.5 ml to 50 ml tubes.
- Used in a variety of applications including immune precipitations, prevention of blood coagulation and latex diagnostics.
- Adjustable speed range from 0 to 80rpm.



#### SWIRLEX – Vortex Shaker

Code	Product	No./case	Price/case (₹)
E11305	Wavex-Classic Rotating Mixer (comes with E11301, E11302 & E11303)	1	39690

#### Spare Accessories

Code	Product	No./case	Price/case (₹)
E11301	Plastic Clips for 1.5 ml x 12 micro centrifuge tubes,Disk accessory	12	694
E11302	Plastic Clips for 15 ml x 12 micro centrifuge tubes,Disk accessory	12	866
E11303	Plastic Clips for 50 ml x 12 micro centrifuge tubes,Disk accessory	12	1098

#### SPECIFICATIONS :

Voltage	220-240V
Frequency	50-60Hz
Power	20W
Motor Type	DC Motor
Speed Range	0-80rpm
Speed Display	Scale
Operation Type	Continuous
Dimensions (W x D x H)	530 x 150 x 190 mm
Weight	1.7 kg
Permissible ambient Temperature	5-40°C
Permissible ambient Humidity	80%
Protection Class	IP21



- Wavex –LCD Rotating Mixer give gentle but effective mixing of biological samples to be held in 1.5 ml to 50 ml tubes used in a variety of applications including immune precipitations, prevention of blood coagulation and latex diagnostics.
- Wavex rotating mixer has a rotisserie type design.
- LCD displays and digital speed control allows procedures to be accurate.



Wavemax - LCD Rotating Mixer			
Code	Product	No./case	Price/case (₹)
E11280	LCD Digital Rotating Mixer with Rotisserie accessory for 50 ml x 16 centrifuge tubes Vertically (E11285)	1	86973

Spare Accessories			
Code	Product	No./case	Price/case (₹)
E11281	Rotisserie accessory for 1.5 ml x 48 micro centrifuge tubes horizontally	1	12613
E11282	Rotisserie accessory for 50 ml x 24 centrifuge tubes horizontally	1	11352
E11283	Rotisserie accessory for 15 ml x 24 centrifuge tubes horizontally	1	11352
E11284	Rotisserie accessory for 1.5 ml x 32 micro centrifuge tubes vertically	1	11352
E11285	Rotisserie accessory for 50 ml x 16 centrifuge tubes vertically	1	11352
E11286	Rotisserie accessory for 15 ml x 16 centrifuge tubes vertically	1	11352
E11274	Disk support rods with disk accessories	4	3185

**SPECIFICATIONS :**

Voltage	220-240V
Frequency	50Hz / 60 Hz
Power	40 W
Motor Type	Brushless DC Motor
Tilt Angle	0 - 90°
Speed Range	10-70 rpm
Speed & Timer Display	LCD
Time Setting Range	1 - 1199 min.
Operation Type	Continuous / timed operation
Dimensions (W x D x H)	510 x 220 x 260 mm
Weight	8 kg
Permissible ambient Temperature	5-40°C
Permissible ambient Humidity	80%
Protection Class	IP 21



E11281



E11282



E11283



E11284



E11285



E11286

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- Abdos Digital rocking shakers are used for staining and destaining gels, hybridization procedures, haematology and blotting techniques. Designed to provide precise speed and tilt angles required for broad range of molecular and biological mixing applications.
- It boasts of digital speed control and large LCD display, speed and timer can be viewed simultaneously.
- Aluminium-alloyed platform provides strong bearing capability, with non-slip mat that holds vessels and prevents it from slipping.
- Specially designed and developed compact space-saving design fits easily in the incubator.



#### WAVEMAX – LED Digital Rocking Shaker

Code	Product	No./case	Price/case (₹)
E11495	Wavemax – Digital Rocking Shaker with Dish platform with non-Slip Mat and fixed strings (8 pcs.) (E11452)	1	100485

#### Spare Accessories for Digital Rocking Shaker (E11495)

Code	Product	No./case	Price/case (₹)
E11451	Universal attachment with 3 Bars	1	13338
E11452	Dish platform with non-slip mat and fixed strings (8 pcs.)	1	12636
E11453	Fixing clip attachment	1	7020
E11415	Fixing clip for 25 ml flask	1	1326
E11416	Fixing clip for 50 ml flask	1	1326
E11417	Fixing clip for 100 ml flask	1	1326
E11418	Fixing clip for 200/250 ml flask	1	2505
E11419	Fixing clip for 500 ml flask	1	2505

\* Pls note E11453 is required to run E11415, E11416, E11417, E11418 & E11419.

#### SPECIFICATIONS :

Voltage	220–240V
Frequency	50–60Hz
Power	40W
Motor type	DC Motor
Rocking motion	See-saw rocking
Maximum load capacity (With Platform)	10 kg
Tilt angle	9°
Speed range	10–70rpm
Speed & timer display	LCD
Time range	1 min – 19 h 59 min
Operation Type	Continuous /timed operation
Dimensions (W x D x H)	360 x 410 x 200 mm
Weight	9 Kg
Permissible ambient temperature	5–40°C
Permissible ambient Humidity	80%
Protection class	IP21



Universal attachment with bars



Dish attachment with non-slip mat

- Wavemax digital (3D) dancing shakers are used for staining and destaining gels, hybridization procedures, haematology and blotting techniques.
- This 3 dimensional shaker is designed to provide precise speed and tilt angles required for broad range of molecular and biological mixing applications.
- Abdos LED dancing shaker boasts of digital speed control and large LED display, speed and timer can be viewed simultaneously.
- Aluminium-alloyed platform provides strong bearing capability, with non-slip mat that holds vessels and prevents it from slipping.
- Specially designed and developed compact space-saving design fits easily in the incubator.



#### WAVEMAX – Digital (3D) Dancing Shaker

Code	Product	No./case	Price/case (₹)
E11895	Wavemax – Digital Dancing Shaker with platform with Dish Attachment with non-slip Mat and fixed strings (8 pcs.) (E11452)	1	100485

#### Spare Accessories for Digital (3D) Dancing Shaker (E11895)

Code	Product	No./case	Price/case (₹)
E11451	Universal attachment with 3 Bars	1	13338
E11452	Dish platform with non-slip mat and fixed strings (8 pcs.)	1	12636
E11453	Fixing clip attachment	1	7020
E11415	Fixing clip for 25 ml flask	1	1326
E11416	Fixing clip for 50 ml flask	1	1326
E11417	Fixing clip for 100 ml flask	1	1326
E11418	Fixing clip for 200/250 ml flask	1	2505
E11419	Fixing clip for 500 ml flask	1	2505

\*Please note E11453 is required to run E11415, E11416, E11417, E11418 & E11419.

#### SPECIFICATIONS :

Voltage	220-240V
Frequency	50-60Hz
Power	40W
Motor type	DC Motor
Rocking motion	3 Dimensional
Maximum load capacity (With Platform)	5 kg
Tilt angle	9°
Speed range	10-70 rpm
Speed & timer display	LCD
Time range	1 min – 99h 59min
Operation Type	Continuous /timed operation
Dimensions (W x D x H)	360 x 430 x 106 mm
Weight	9 Kg
Permissible ambient temperature	5-40°C
Permissible ambient Humidity	80%
Protection class	IP21



Universal attachment with bars



Dish attachment with non-slip mat

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- Abdos orbital shakers are capable of mixing and shaking liquids in bottles, flasks, vessels, test tubes & dishes.
- Independent LED display for adjusting speed and time. Speed and timer can be viewed simultaneously.
- Maximum load capacity of 2.0 kg with platform.
- Specially designed and developed compact space-saving design fits easily in the incubator and refrigerator.
- Continuous or timer operation mode.
- Over speed detection and protection.



WAVEMAX – Digital Orbital Shaker			
Code	Product	No./case	Price/case (₹)
E11460	Wavemax – LED Digital Orbital Shaker with dish attachment fixed plate with not-slip mat (E11452)	1	50715

Spare Accessories for E11460			
Code	Product	No./case	Price/case (₹)
E11452	Dish attachment fixed plate with non-slip mat	1	12636

SPECIFICATIONS :	E11460
Voltage	220-240V
Frequency	50-60Hz
Power	20W
Motor Type	Brushless DC Motor
Shaking Motion	Orbital
Orbital Diameter	20mm
Maximum load capacity (With Platform)	2.0 kg
Speed Range	40-200rpm
Speed & Timer Display	LED
Time Range	1 min – 19h59min
Operation Type	Continuous /timed operation
Dimensions (W x D x H)	294 x 348 x 123 mm
Weight	3.1 Kg
Permissible ambient Temperature	5-40°C
Permissible ambient Humidity	80%
Protection Class	IP21
Work Plate Dimension	268 x 268 mm



- Abdos orbital and linear shakers are capable of mixing and shaking liquids in bottles, flasks, vessels, test tubes & dishes.
- Independent LCD display for adjusting speed and time, speed and timer can be viewed simultaneously.
- Maximum load capacity of 7.5 kg with platform.
- Specially designed and developed compact space-saving design fits easily in the incubator and refrigerator.
- Timer or continuous operation mode.
- Over speed detection and protection.



#### WAVEMAX – Heavy Duty LCD Digital Orbital Shaker

Code	Product	No./case	Price/case (₹)
E11480	Wavemax – Heavy Duty Orbital Shaker with universal Attachment with 4 Bars (E11411)	1	101410

#### WAVEMAX – Heavy Duty LCD Digital Linear Shaker

Code	Product	No./case	Price/case (₹)
E11490	Wavemax – Heavy Duty Linear Shaker with universal Attachment with 4 Bars (E11411)	1	101410

#### Spare Accessories for E11480 & E11490

Code	Product	No./case	Price/case (₹)
E11411	Universal attachment with 4 Bars	1	13672
E11413	Dish attachment with non-slip mat & fixed string	1	12125
E11414	Fixing clip attachment	1	8934
E11415	Fixing clip for 25 ml flask	1	1205
E11416	Fixing clip for 50 ml flask	1	1205
E11417	Fixing clip for 100 ml flask	1	1205
E11418	Fixing clip for 200/250 ml flask	1	2277
E11419	Fixing clip for 500 ml flask	1	2277

\* Pls note E11414 is required to run E11415, E11416, E11417, E11418 & E11419.

#### SPECIFICATIONS :

	E11480	E11490
Voltage	220-240V	220-240V
Frequency	50-60Hz	50-60Hz
Power	28W	30W
Motor Type	Brushless DC Motor	Brushless DC Motor
Shaking Motion	Orbital	Linear
Orbital Diameter	10 mm	10 mm
Maximum load capacity (With Platform)	7.5kg	7.5kg
Speed Range	100-500 rpm	100-350 rpm
Speed & Timer Display	LCD	LCD
Time Range	1 min – 99 h 59 min	1 min – 99 h 59 min
Operation Type	Continuous /timed operation	Continuous /timed operation
Dimensions (W x D x H)	370 x 420 x 100 mm	370 x 420 x 100 mm
Weight	12 Kg	13.5 Kg
Permissible ambient Temperature	5-40°C	5-40°C
Permissible ambient Humidity	80%	80%
Protection Class	IP21	IP21



Universal attachment with bars



Dish attachment with non-slip mat



Fixing clamp attachment

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## 243 WAVEMAX – ORBITAL SHAKER JUNIOR

- Abdos orbital shaker has digital speed control of upto 300 rpm.
- These shakers have horizontal circular 19 mm orbit for aeration and mixing.
- Universal magnetic clamp can be instantly exchanged.
- These shakers have a capacity of up to 20 x 50ml, 12 x 125 ml, 8 x 250 ml, 5 x 500 ml, 4 x 1L flasks.



WAVEMAX – Orbital Shaker Junior				
Code	Product	Platform Dimension	No./case	Price/case (₹)
E11260	Wavemax – Orbital Shaker Junior with flat mat	9.5" x 8"	1	73500

Spare Accessories				
Code	Product	Platform Dimension	No./case	Price/case (₹)
E11261	Universal Magnetic platform for flasks and tube racks	11" x 9.5"	1	17533

Kindly Note: Flask clamps and Fixed Platforms are sold separately. See page No. 179 for complete listing

### SPECIFICATIONS :

Voltage	220-240 V
Frequency	50 Hz
Shaking Movement	Orbital
Timer	1 min-99 hrs59min
Speed Range	50 – 300 rpm, Variable
Speed Increment	10 rpm
Orbit	19 mm
Load Capacity	Maximum 4 kg
Dimension (W x D x H)	333 x 298 x 120 mm
Weight	5.5 kg
Permissible ambient temperature	+4 to +65° C
Permissible relative humidity	80%



## 244 WAVEMAX – ORBITAL SHAKER

- Abdos powerful orbital shaker is capable of mixing liquids upto a load capacity of 6 kg in bottles, flasks, test tubes & dishes.
- Abdos orbital shaker has digital speed control of upto 300 rpm.
- These shakers have high capacity of upto 24 x 125 ml, 14 x 250 ml, 9 x 500 ml, 5 x 1L and 2 x 2L flasks and bottles.
- These shakers have horizontal circular 19 mm orbit for aeration and mixing.
- Universal magnetic clamp can be instantly exchanged.



WAVEMAX – Orbital Shaker				
Code	Product	Platform Dimension	No./case	Price/case (₹)
E11290	Wavemax – Orbital Shaker with flat mat	13" x 12"	1	196796

Spare Accessories				
Code	Product	Platform Dimension	No./case	Price/case (₹)
E11291	Universal Magnetic platform for flasks and tube racks	14" x 12"	1	32414

Kindly Note: Flask clamps and Fixed Platforms are sold separately. See page No. 182 for complete listing

### SPECIFICATIONS :

Voltage	220-240V
Frequency	50 Hz
Shaking Movement	Orbital
Speed Range	30 – 300 rpm, Variable
Speed Increment	1 rpm
Orbit	19 mm
Load Capacity	Maximum 6 kg
Dimension (W x D x H)	280 x 430 x 75 mm
Weight	11.25 kg
Permissible ambient temperature	+4 to +65° C
Permissible relative humidity	80%



## 245 WAVEMAX-DIGITAL INCUBATOR

- Wavemax-Digital Incubators provide the facility to monitor the chamber temperatures in real time.
- Has large internal chambers with two adjustable shelves for increased space. Internal Power Outlet for Installation of other Equipment for sample agitation within the Digital Incubators.
- Wavemax-Digital Incubator is available in a heating unit or heating and cooling for lower temperature applications.



Wavemax - Digital Incubator				
Code	Product	No./case	Price/case (₹)	
E11355	Heating Digital Incubator	1	76116	
E11356	Heating & Cooling Digital Incubator	1	114864	

Spare Accessories				
Code	Product	Platform Dimension	No./case	Price/case (₹)
E11357	Extra Shelf, 10.5 x 8 inch, Plastic (not autoclavable)	6" x 8"	1	7030

SPECIFICATIONS :	E11355	E11356
Voltage	220-240 V	220-240 V
Frequency	50-60 HZ	50-60 HZ
Temp. Range (Heating)	Ambient +5°C to 60°C	Ambient -15°C to 60°C
Temp. Operation	Only Heating	Heating & Cooling
Temp. Accuracy	±0.5°C (at 37°C)	±0.5°C (at 37°C)
Temp. Uniformity	±1.5°C (at 37°C)	±1.5°C (at 37°C)
Temp. Increment	1°C	1°C
Platform Dimensions	235 x 290 mm(6 x 8 in)	235 x 290 mm(6 x 8 in)
Operating Temp. Range	+5 to 45°C	+5 to 45°C
Exterior (W x D x H)	335 x 370 x 475 mm	335 x 370 x 475 mm
Interior (W x D x H)	260x235x325mm	260x235x325mm
Capacity	20L	20L
Weight	6.5 kg	6.5 kg

\*Minimum temperature is approx. 10°C in 25°C room temp.



## 246 WAVEMAX - INCU-SHAKER MINI

- Wavemax-Incu-Shaker Mini is a compact shaking incubator that can accept a variety of flasks, tubes, trays, etc.
- The standard platform features a non-slip surface ideal for staining trays, tissue culture flasks, and Petri dishes.
- Abdos Incu-Shaker offer exceptional temperature uniformity and accuracy due to a proprietary heat distribution technology that ensures temperatures are precisely maintained throughout the chamber within 0.5%, even in the corners.
- Featuring the MAGIC Clamp platform, this shaker lets you customize the size and types of vessels being used by simply exchanging clamp sizes. Clamps utilize a powerful magnetic base to securely attach to the shaking platform without screws, bolts, or tools.
- Speed, temperature, and time are controlled with a push of a button and are displayed on the LED panel.
- Over temperature and over speed controls ensure safety, long life, and sample integrity.
- Advanced motor isolation system minimizes noise and vibration.



WAVEMAX - INCU-SHAKER				
Code	Product	Platform Dimension	No./case	Price/case (₹)
E11920	Wavemax-Incu-Shaker Mini with Non-Slip Rubber Mat	9.5" x 11.5"	1	406827

Spare Accessories				
Code	Product	Platform Dimension	No./case	Price/case (₹)
E11925	Universal Magnetic Platform for Flasks and Tube racks (For E11920)	9.5" x 11.5"	1	34826

Kindly Note: Flask clamps and Fixed Platforms are sold separately, see page No. 182 for complete listing

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## SPECIFICATIONS :

Voltage	220-240V
Frequency	50-60Hz
Speed	Variable, 30 to 300rpm
Speed Increments	1rpm
Shaking Orbit	19mm
Temperature Range	Room Temperature +5°C to 70°C
Temperature Increment	0.1°C
Temperature Accuracy	±0.1°C
Temperature Uniformity	±0.5°C
Timer	1 min to 48 hours/continuous
Platform Dimensions	23.5 x 29cm (9.5"x11.5")
Overall Dimensions (W x D x H)	280 x 410 x 330 mm
Weight	11.5 kg



### Spare Accessories for E11260, E11290 & E11920

Code	Product	No./case	Price/case (₹)
E11928	Universal Magnetic Clamp for 125ml, 250ml, 500ml flasks	1	7021
E11929	Magnetic Clamp for 1000 ml flask (Max. 2)	1	8938
E11930	Magnetic Clamp for 500 ml flask (Max. 5)	1	5754
E11931	Magnetic Clamp for 250 ml flask (Max. 8)	1	5754
E11932	Magnetic Clamp for 125 ml flask (Max. 12)	1	5106
E11933	Magnetic Clamp for 50 ml flask (Max. 20)	1	4724
E11934	Magnetic Clamp for one Microplate	1	12156
E11935	Magnetic Clamp for Tube Rack 30x15ml & 20x50ml tubes	1	12619
E11936	Magnetic Clamp for Tube Rack 72x14mm culture tubes	1	21880
E11937	Magnetic Clamp for Tube Rack 32x15ml, tubes	1	12619
E11938	Magnetic Clamp for Tube Rack 15x50ml, tubes	1	12619

### Spare Accessories for E11290 & E11920

Code	Product	No./case	Price/case (₹)
E11939	Magnetic Clamp for Tube Rack 4x500ml or 600ml conical bottles	1	25527
E11940	Magnetic Clamp for Tube Rack 12x1.5/2.0 ml tubes horizontal	1	15195
E11941	Magnetic clamp for tube Rack 4x15ml tubes horizontal	1	15195
E11942	Magnetic Clamp for Tube Rack 2x50ml tubes horizontal	1	15195
E11943	Magnetic Clamp for tilted holder for 15ml and 50ml tube rack	1	17017
E11944	Universal spring Platform	1	129391
E11948	Platform for 5 x 500 ml	1	82068
E11949	Platform for 8 x 250 ml	1	82068
E11950	Platform for 12 x 125 ml	1	82068
E11951	Platform for 4 microplates	1	131856

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## AEROVAC-OIL-FREE VACUUM PUMPS

- ABDOS Aerovac Oil Free Vacuum Pump is a compact, lightweight and mobile oil-free piston Vacuum pump.
- It features manual pressure control and a gauge for pressure monitoring.
- The unit is maintenance-free and its oil-free design reduces its environmental impact.
- The pump can achieve flow rates of up to 80 L/min and an ultimate vacuum down to 13 mbar.
- A wide range of optional accessories are available.
- Application Areas: Abdos Vacuum Pump is useful for Biology laboratories, Food industry, Microbiological detection, Vacuum extraction, Liquid filtration, Vacuum drying, Suspended solids measurement.



### Oil Free Vacuum Pump

Code	Product	Product Dimension	No./case	Price/case (₹)
E11800	Aerovac-300	Vacuum: 100mbar; Max. Flow Rate: 17 L/min(220V)	1	31835
E11801	Aerovac-400	Vacuum: 100 mbar; Max. Flow Rate: 34 L/min(220V)	1	37278
E11806	Aerovac-800	Vacuum: 100 mbar; Max. Flow Rate: 80 L/min(220V)	1	91684

Spare Accessories				
Code	Product	Product Dimension	No./case	Price/case (₹)
E11810	Connectors	Outlet diameter: 9.5mm	1	8405
E11815	L-shape connector	Outlet diameter: 8mm	1	14712
E11816	Quick connection outlet	Outlet diameter: 12mm	1	9806
E11821	Silencer	Suitable for Aerovac300 / Aerovac400 / Aerovac410	1	8405
E11823	Vacuum regulator / filter	Incl. pressure gauge	1	33338
E11824	Vacuum regulator / filter	without pressure gauge	1	27318
E11825	Foot pedal	Suitable for Aerovac series vacuum pumps	1	19470
E11826	FEP tubing	Outer diameter: 6mm, Inner diameter: 4mm, Thickness: 1 mm, Length : 1m	1	4907
E11830	Silicon tubing	Outer diameter: 12mm, Inner diameter: 6mm, Thickness: 3mm, Length : 1m	1	3505

SPECIFICATIONS :	E11800	E11801	E11806
Volt	220 V	220 V	220 V
Frequency	50 Hz	50 Hz	50 Hz
Maximum Power	60 W	80 W	220 W
Maximum Current	0.3 A	0.4 A	1.0 A
Maximum Vacuum	100 mbar	100 mbar	100 mbar
Maximum Flow Rate	17 L/min	34 L/min	80 L/min
Motor Rotation	1450 rpm	1450 rpm	1450 rpm
Dimension (W x D x H)mm	272 x 142 x 165	310 x 152 x 165	340 x 185 x 195
Weight	4.4 Kg	5.4 Kg	8.6 Kg
Noise Level	50 dB	60 dB	75 dB



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# General Conversion Table



## Instructions for using the Table

To Convert one unit of (A) into (B) multiply by (C)

To Convert one unit of (B) into (A) multiply by (D)

A	B	C (X1 unit of A = B)	D (X1 unit of B = A)	A	B	C (X1 unit of A = B)	D (X1 unit of B = A)
Inches	Centimetres	2.54	0.3937	Lb. per sq. in	H'd of water (M.)	0.7	1.4285
Feet	Centimetres	30.48	0.0328	Lb. per sq. in	Atmospheres	0.068	14.7
Yards	Metres	0.194	1.094	Tons per sq. in	Kgm. / sq. mm.	1.575	0.635
Miles	Metres	1,609.30	0.000621	Lb. per sq. ft	Kgm. / sq. metre	4.883	0.205
Nautical miles	Metres	1,853.27	0.000539	Lb. per cub. yd.	Kgm. / cub. metre	0.593	1.686
Square inches	Sq. cms	6.45	0.155	Lb. per cub. ft	Kgm. / cub. metre	16.02	0.0624
Square feet	Sq. Metres	0.093	10.764	Lb. per gallon	Kgm. / litre	0.0998	10.02
Square yards	Sq. Metres	0.836	1.196	Foot-lb	K'gram-metres	0.1833	7.23
Cubic inches	Cub. cms	16.39	0.061	Foot-tons	Tonne-metres	0.33	3
Cubic feet	Litres	28.3	0.0353	Hors-Power	Force de Cheval	1.014	0.9861
Cubic feet	Gallons	6.24	0.1602	Hors-Power	Watts	746	0.00134
Cubic yards	Cub. metres	0.765	1.308	Hors-Power	Ft.-lb / min	33,000	0.00003
Pounds (Troy)	Kilogrammes	0.3732	2.68	Hors-Power	Kg.-m. / sec.	73	0.01316
Ounces (Troy)	Grammes	31.1	0.03216	Watts	Ft.-lb. / min	44	0.0227
Pounds (Avoir.)	Kilogrammes	0.4536	2.2046	Watts	Kg.-m. / sec	0.1	10
Pounds (Avoir.)	Grains (Troy)	7,000	0.000143	Heat units	Cal ories	0.252	3.97
Ounces (Avoir.)	Grammes	28.35	0.0353	Atmospheres	Lb. / sq. inch	14.7	0.068
Grains	Grammes	0.065	15.38	German candles	English candles	0.90	1.1111
Cwt.	Kilogrammes	50.8	0.01968	Carrels	Candles.	9.55	0.1047
Tons	Kilogrammes	1,016	0.000984	Joules	Ft. / lb	0.737	1.357
Gallons	Litres	4.546	0.22	Miles / hour	Ft. / Min	88	0.01134
Gallons of water	Pounds	10	0.1	Metres / sec	Ft / Min .	197	0.00508
Pounds of water	Litres	0.454	2.202	C.H.U	B. Th. U .	1.8	0.5555
Lb per sq. in .	Gm./sq. cm.	70.3	0.0142	Centipoise	Lb. force sec. / Sq. ft.	0.208	4.8
Lb per sq. in .	H'd of water (ft.)	2.3	0.434				
<b>To obtain</b>	<b>From</b>		<b>Multiply-by above</b>	<b>To obtain</b>	<b>From</b>		<b>Multiply-by above</b>



# Physical Properties Of Abdos Labware



Resin	Max Use Temp °C	Brittleness Temp °C	Transparency	Sterilization					Specific Gravity	Flexibility	Water Absorption %
				Autoclaving	Gas	Dry Heat	Radiation	Disinfectant			
HDPE	120	-100	Translucent	No	Yes	No	Yes	Yes	0.95	Rigid	< 0.01
LDPE	80	-100	Translucent	No	Yes	No	Yes	Yes	0.92	Excel	< 0.01
PC	135	-135	Clear	Yes+	Yes	No	No	Yes	1.20	Rigid	0.35
PMMA	50	20	Clear	No	Yes	No	Yes	Some	1.20	Rigid	0.30
PP	135	0	Translucent	Yes	Yes	No	No	Yes	0.90	Rigid	< 0.02
PS	90	20	Clear	No	Yes	No	Yes	Some	1.05	Rigid	0.05
PSF	165	-10	Clear	Yes	Yes	Yes+	Yes	Yes	1.24	Rigid	0.30
PTFE	270	-200	Opaque	Yes	Yes	Yes	No	Yes	2.17	Excel	< 0.01
PVDF	110	-62	Translucent	Yes	Yes	No	No	Yes	1.75	Rigid	0.05
TPX*	175	20	Clear	Yes	Yes	Yes+	No	Yes	0.83	Rigid	< 0.01

## Sterilization

• Autoclaving (121°C, 15 psi for 20 minutes) Clean and rinse item with distilled water before autoclaving. Certain chemicals which have no appreciable effect on resins at room temperature may cause deterioration at autoclaving temperatures.

ALWAYS COMPLETELY DISENGAGE THREADS BEFORE AUTOCLAVING.

• Gas - Ethylene oxide, formaldehyde.

• Dry Heat - 106°C for 120 minutes.

• Disinfection - Benzalkonium chloride, Formalin, Ethanol, etc.

• Radiation - Gamma irradiated at 2.5 Mrad with unstabilized plastic.

+ Sterilizing reduces mechanical strength. Do not use PC vessels for vacuum application if they have been autoclaved.

## Chemical Resistance for ABDOS Labware

Class of Substance at Room Temperature	HDPE	LDPE	PC	PMMA	PP	PS	PSF	PTFE	PVDF	TPX*
Acids, Dilute or Weak	E	E	E	G	E	E	E	E	E	E
Acids, Strong and Concentrated	E	E	N	N	E	F	G	E	E	E
Alcohols, Aliphatic	E	E	G	N	E	E	G	E	E	E
Aldehydes	G	G	F	G	G	N	F	E	E	G
Bases	E	E	N	F	E	E	E	E	E	E
Esters	G	G	N	N	G	N	N	E	G	G
Hydrocarbons, Aliphatic	G	F	F	G	G	N	G	E	E	F
Hydrocarbons, Aromatic	G	F	N	N	F	N	N	E	E	F
Hydrocarbons, Halogenated	F	N	N	N	F	N	N	E	N	N
Ketones	G	G	N	N	G	N	N	E	N	F
Oxidizing Agents, Strong	F	F	N	N	F	N	G	E	G	F

**Resin Code**

HDPE High-density polyethylene  
 LDPE Low-density polyethylene  
 PC Polycarbonate  
 PMMA Polymethyl methacrylate  
 PP Polypropylene  
 PS Polystyrene  
 PSF Polysulfone  
 PTFE Polytetrafluoroethylene  
 PVDF Polyvinylidene fluoride  
 TPX\* Polymethylpentene

## Chemical Resistance Classification

■ E = Excellent - 30 Days of constant exposure cause no damage. Plastics may even tolerate for years.

■ G = Good - Little or no damage after 30 Days of constant exposure to the reagent.

■ F = Fair - Some effect after 7 days of constant exposure to the reagent, like cracking, loss of strength or discoloration.

■ N = Not Recommended - Not for continuous use. Immediate damage may occur.

\*TPX is the registered Trade Mark of Mitsui & Company Limited

# Thermoplastics Chemical and Properties

## CHEMICAL STABILITY OF PLASTICS

MEDIUM	PTFE		PMP(TPX)		PP		HDPE		LDPE		PC		POM		PA		SAN		PMMA		PS		NR	
	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	
Acetaldehyde	E	E	G	F	E	F	E	G	E	F	G	F	E	E	G		F	F	F	F	F	F	F	F
Acetic acid (glacial acetic acid), 100%	E	E	E	G	E	G	E	E	E	G	F	F	F	F	F	F					F	F	G	
Acetic acid 50%	E	E	E	E	E	E	E	E	E	E	E	G	G	F	F	F	E	G	F	F	G	G	F	
Acetic anhydride	E	E	E	G	G	G	G	G	F	F	F	F	F	F	G	G					F	F	G	
Acetone	E	E	E	E	E	E	E	E	E	G	F	F	E	E	E		F	F	F	F	F	F	F	G
Acetonitrile	E	E	G	F	E	G	E	G	E	G	F	F	E		E		F	F	F	F	F	F	F	F
Acetophenone	E	E	G	F	G	G	G	G	F	F	F	F	E		E		F	F	F	F	F	F	F	F
Acetyl chloride (acetic acid chloride)	E	E			E		E		E		F	F			F	F	F	F	F	F	F	F	F	F
Acetylacetone	E	E	E		E		E		E		F	F	E				F	F	F	F	F	F	F	F
ACRYLIC acid(2- propenic acid)	E	E	E		E		E		E		F	F	F	F			F	F	F	F	F	F	F	F
Acrylonitrile	E	E	F	F	G	F	E	E	E	E	F	F	F	F	E		F	F	F	F	F	F	F	F
Adipic acid	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		E	E	E	E	E	E	E	E
Allyl alcohol(2-propan-1-ol)	E	E	E	G	E	E	E	E	E	E	G	G	E	E	G		G	F	F	F	G	G	G	G
Aluminium chloride	E	E	E	E	E	E	E	E	E	E	F	F	E	G	G	F	E	E	E	E	E	E	E	G
Aluminium hydroxide	E	E	E	G	E	E	E	E	E	E	G	F	E	E	E	E	G	G	G	G	G	G	G	E
Amino acid	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Ammonium chloride	E	E	E	E	E	E	E	E	E	E	G	G	E	E	E		E	E	G	G	E	E	E	E
Ammonium fluoride	E	E	E	E	E	E	E	E	E	E	G	G	E	E	E		E	E	G	G	E	E	F	
Ammonium hydroxide,30%(ammonia)	E	E	E	E	E	E	E	E	E	E	F	F	G	G	G		E	G	E	E	G	F	E	
Ammonium sulphate	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		E	E	E	E	E	E	G	
n-Amyl acetate (pentyl acetate)	E	E	E	G	G	F	E	G	G	F	F	F	E	E	G		F	F	E	E	F	F	G	
Amyl alcohol (pentanol)	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		E	E			G	G	G	
Amyl chloride (chloropentane)	E	E	F	F	F	F	F	F	F	F	F	F	E	E	E		F	F	F	F	F	F	F	F
Aniline	E	E	E	G	E	E	E	E	E	G	G	F	G	G	G	F	F	F	F	F	F	F	F	F
Aqua regia	E	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
Barium chloride	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		E	E	E	E	E	E	E	E
Benzaldehyde	E	E	E	E	E	E	E	E	E	E	G	F	E	E	G		F	F	F	F	F	F	F	F
Benzene	E	E	G	G	E	G	E	E	G	F	F	F	E	G	E		F	F	F	F	F	F	F	F
Benzoyl chloride	E	E	G	G	E	G	E	E	G	F	F	F	E	G	F	F	F	F	F	F	F	F	F	F
Benzyl alcohol	E	E	G	F	G	F	G	F	G	F	G	G	E	E	F	F	F	F	F	F	F	F	F	F
Benzyl chloride	E	E											E		E						F	F	F	F
Benzylamine	E	E	G		G		G		G	F	F	F	E				F	F	F	F	F	F	F	F
Boric acid, 10%	E	E	E	E	E	E	E	E	E	F	E	E	E	E	E		E	E	E	E	E	E	E	E
Bromine	E	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
Bromobenzene	E	E	F	F	F	F	F	F	F	F	F	F			E		F	F	F	F	F	F	F	F
Bromoform	E	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
Bromonapthalene	E	E															F	F			F	F		
Butanediol	E	E	E	E	E	E	E	E	E	E			E	E	E		F	F			F	F	G	
1-Butanol (butyl alcohol)	E	E	E	G	E	E	E	E	E	E	G	G	E	E	E	G	E	G	G	F	G	F	E	
n-Butyl acetate (acetic acid n-butyl ester)	E	E	E	G	G	G	E	E	G	G	F	F	E	G	E		F	F	F	F	F	F	F	F
Butyl methyl ether	E	E	E	F	E	G	G	F	G	F	F	F	E	E			F	F	F	F	F	F	F	F
Butylamine	E	E											E	E			F	F			F	F	F	F
Butyric acid (butanoic acid)	E	E			F	F	G	F	F	F	G	F			G	G	F	F			F	F	F	F
Calcium carbonate	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
Calcium Chloride	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F	E	E	E	E	E	E	E
Calcium hydroxide	E	E	E	E	E	E	E	E	E	E	F	F	E	E	E		E	G	E	E	E	G	E	E
Calcium hypochlorite	E	E	E	G	E	E	E	E	E	E	G	F	E	E	E	F	E	E	G	G	E	E	F	F
Carbon disulphide	E	E	F	F	F	F	F	F	F	F	F	F	E	E	G		F	F	F	F	F	F	F	F
Carbon tetrachloride	E	E	F	F	F	F	G	F	G	F	F	F	G	G	F	F	F	F	G	F	F	F	F	F
Chloroacetaldehyde, 45%	E	E														F	F	F	F	F	F	F	F	F
Chloroacetic acid (monochloroacetic acid)	E	E	E	G	E	G	E	E	E	E	G	F	F	F	F	F	F	F	G	F	G	F	F	F
Chloroacetone	E	E															F	F	F	F	F	F	G	

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MEDIUM	PTFE		PMP(TPX)		PP		HDPE		LDPE		PC		POM		PA		SAN		PMMA		PS		NR	
	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	
Chlorobenzene	E	E	F	F	F	F	F	F	F	F	F	F			F	F	F	F	F	F	F	F	F	F
Chlorobutane	E	E	G	F	G	F	G	F	G	F			F	F			F	F	F	F	F	F	F	F
Chloroform	E	E	G	F	F	F	G	F	G	F	F	F	F	F	G	F	F	F	F	F	F	F	F	F
Chloronaphthalene	E	E											F	F										F
Chlorosulphonic acid	E	E											F	F	F	F								F
Cromic acid, 10%	E	E	E	E	E	E	E	E	E	E	E	G	G	G	F	F	F	F	G	F	F	F	F	F
Cromic acid, 50%	E	E	G	G	G	G	E	G	E	G	G	F	F	F	F	F	G	G	F	F	F	F	F	F
Cromic sulphuric acid	E	E	G	F	F	F	F	F	F	F	F	F	F	F	F	F	G	G	F	F	G	G	F	F
Copper sulphate	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	G	E	E	E	E	E	G
Cresol	E	E	F	F	G	G	G	F	F	F	F	F			F	F					F	F	F	F
Cumene(Isopropylbenzene)	E	E	F	F	G	F	E	G	G	F	F	F	E	F			F	F	F	F	F	F	F	F
Cyclohexane	E	E	F	F	G	F	G	F	G	F	F	F	E	E	E						F	F	F	F
Cyclohexenone	E	E	G	G	G	F	G	F	F	F	F	F			E						F	F	F	F
Cyclopentane	E	E	G	F	G	F	G	F	F	F	F	F									F	F	F	F
Decane	E	E	G		G		G	F				G		E										F
1-Decanol	E	E	E		E		E					G		E			G				G			G
Di-ethylene glycol	E	E	E	E	E	E	E	E	E	E	E	G	G	E	G	G		E	E	F	F	G	F	E
Dibenzyl ether	E	E	G		E		E							E			F	F	F	F	F	F	F	F
Dibromoethane	E	E																						
Dibutylphthalate	E	E	E	G	E	G	G	F	G	F	F	F	E	E			F	F	F	F	F	F	F	F
Di-chloroacetic acid	E	E	E	E	G	F	G	G	G	F	G	F			F	F					G	F	F	F
Dichlorobenzene	E	E	F	F	G	F	G	F	G	F	F	F	F	F	E		F	F	F	F	F	F	F	F
Dichloroethane	E	E	G	F	G	F	G	F	G	F			F	F	G									F
Dichloromethane (Methylene chloride)	E	E	G	F	G	F	G	F	G	F	F	F			G	F					F	F	F	F
Diesel oil	E	E	G	F	E	G	E	G	G	F	F	F	E	E	E	E	F	F	G	F	F	F	F	F
Diethanolamine	E	E			G		G					F	F				F	F	F	F	F	F	F	F
Diethyl ether	E	E	F	F	G	F	G	F	F	F	F	F	E	E	E	E	F	F	F	F	F	F	F	F
Di-ethylamine	E	E	G	G	G	F	G	F	F	F	F	F									G	G	G	G
1,2 Diethylbenzene	E	E	F	F	F	F	G	F	F	F	G	F									F	F	F	F
Dimethyl sulphoxide(DMSO)	E	E	E	E	E	E	E	E	E	E	E	F	F				F	F	F	F	F	F	F	F
Dimethylaniline	E	E										F	F				F	F	F	F	F	F	F	F
Dimethylformamide(DMF)	E	E	E	E	E	E	E	E	E	E	E	F	F	E	E	E	F	F	F	F	F	F	F	G
1,4-Dioxane	E	E	G	G	E	G	E	E	E	G	G	G	G	G	E		F	F	F	F	F	F	F	F
Diphenyl ether	E	E											G		G		F	F	F	F	F	F	F	F
1,2 Ethanediol (ethylene glycol, glycol)	E	E	E	E	E	E	E	E	E	E	E	E	E	E	G	G	E	E	E	E	E	E	E	F
Ethanol (ethyl alcohol)	E	E	E	G	E	E	E	E	E	E	E	E	G	E	E	E	G	F	F	F	G	F	G	G
Ethanolamine	E	E			E																			F
Ethyl acetate (acetic acid ethyl ester)	E	E	G	F	E	G	E	E	E	E	F	F			E						F	F	F	F
Ethyl methyl Ketone(MEK)	E	E	F	F	E	G	G	F	G	F	F	F	F	F	E		F	F			F	F	F	F
Ethylbenzene	E	E	F	F	F	F	F	F	F	F	F	F					F	F	F	F	F	F	F	F
Ethylene Oxide	E	E	G	F	G	F	G	G	G	G	G	F	E	E	G		F	F	F	F	F	F	F	F
Fluroacetic acid	E											F	F	F	F		F	F	F	F	F	F	F	F
Formaldehyde, 40%	E	E	E	E	E	E	E	E	E	E	E	E	G	E	E	E	G	E	E	F	F	F	F	G
Formamide	E	E	E	E	E	E	E	E	E	E			F	F	E									E
Formic acid, 98-100%	E	E	E	G	E	E	E	E	E	E	E	G	F	F	F	F	G	G	F	F	E	G	G	G
Gasoline	E	E	G	G	G	G	E	E	G	F	G	F	E	E	E		F	F	E	E	F	F	F	F
Glycerine	E	E	E	E	E	E	E	E	E	E	E	E	E	G	G	E	E	E	E	E	E	E	E	G
Glycolic acid, 70%	E	E	E	E	E	E	E	E	E	E					F	F								E
Heating oil (Diesel oil)	E	E	G	F	E	G	E	G	G	F	F	F	E	E	E		F	F	G	F	F	F	F	F
Heptane	E	E	G	G	G	G	G	G	G	F	E	G			E				G	F	F	F	F	F
Hexane	E	E	G	F	E	G	E	G	G	F	F	F	E	E	E		E	E	G	G	F	F	F	F
Hexonic acid	E	E																	E					
Hexanol	E	E	E	E	E	E	E	E	E	E									E					G
Hydrochloric acid,10%	E	E	E	E	E	E	E	E	E	E	F	F	F	F	F	F	G	F	G		E	E	G	G
Hydrochloric acid,20%	E	E	E	E	E	E	E	E	E	E	F	F	F	F	F	F	G	F	G	F	E	E	G	G
Hydrochloric acid, 37%	E	E	E	E	E	E	E	E	E	E	F	F	F	F	F	F	G	F	G	F	G	G	G	G

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MEDIUM	PTFE		PMP[TPX]		PP		HDPE		LDPE		PC		POM		PA		SAN		PMMA		PS		NR	
	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	
Hydrofluoric acid, 40%	E	E	E	E	E	E	E	E	E	E	F	F	F	F	F	F	E	G	F	F	E	E	F	
Hydrofluoric acid, 70%	E	G	E	G	E	G	E	G	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
Hydrogen bromide	E	E	E	E	E	E	E	E	E	E	E	F	F	F	F						G	F	G	
Hydrogen peroxide, 35%	E	E	E	E	E	E	E	E	E	E	E	E	F	F	F	E	E	F	F	E	E	F	F	
Hydroiodic acid	E	E	E	E	E	E	E	E	E	E														
Isoamyl alcohol (3-methyl-1-butanol)	E	E	E	E	E	E	E	E	E	E			E	E									G	
Isobutanol (isobutyl alcohol)	E	E	E	E	E	E	E	E	E	E	E	E	E	E			G	F	G	F	G	G	E	
Isooctane	E	E									G				E		G	F			G	F	F	
Isopropanol [2-propanol]	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		E	F	G	F	G	G	E	
Isopropyl ether	E	E	F	F	F	F	F	F	F	F	F	F			F	F					F	F	F	
Lactic acid (2-hydroxypropionic acid)	E	E	E	E	E	E	E	E	E	E	E	E	F	G	F	E	E	G	F	E	E	G		
Lugol's solution (Iodine/potassium iodine solution)	E	E	E	G	E	E	F	F	F	F	G	F	G	G			G	F	F	F	G	F	E	
Mercury	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		E	E	E	E	E	E	E	
Mercury chloride	E	E	E	E	E	E	E	E	E	E	E	E	G	G	F	F	E	E	E	E	E	G	E	
Methanol	E	E	E	E	E	E	E	E	E	G	E	G	E	E	G		G	F	F	F	G	F	G	
Methoxybenzene	E	E									F	F	G				F	F	F	F	F	F	F	
Methyl butyl ether	E	E	E	G	E	E	G	F	F	F	F	F	G				F	F	F	F	F	F	F	
Methyl ethyl ketone(MEK)	E	E	F	F	E	G	G	F	G	F	F	F	F				F	F	F	F	F	F	F	
Methyl formate (formic acid methyl ester)	E	E									F	F	E				F	F	F	F	F	F	F	
Methyl propyl ketone	E	E	G	G	E	G	E	E	E	G	F	F	E	E			F	F	F	F	F	F	F	
Methylene chloride (dichloromethane)	E	E	F	F	G	F	G	F	G	F	F	F	F	G	F	F	F	F	F	F	F	F	F	
Mineral oil	E	E	E	E	E	E	E	E	E	G	F	F	E	E			E		E	E	E		F	
Monochloroacetic acid	E	E	E	G	E	G	E	E	E	E	G	F	F	F	F	F	F	F	G	F	G	F	F	
Nitric acid, 10%	E	E	E	E	E	E	E	E	E	E	E	G	F	F	F	F	E	G	E	G	F	F	F	
Nitric acid, 30%	E	E	G	F	G	F	G	F	G	G	E	G	F	F	F	F	G	F	G	G	F	F	F	
Nitric acid, 70%	E	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
Nitrobenzene	E	E	F	F	F	F	G	F	F	F	F	F	G	F	F	F	F	F	F	F	F	F	F	
Oleic acid	E	E													G		F	F	F	F	F	F	F	
Oxalic acid	E	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F	E	E	E	E	E	E	G	
Ozone	E	E	E	E	G	F	G	F	G	F	F	F	F	F	F	G	G	E	G	G	G	G	F	
n-Pentane	E	E														G							F	
Peracetic acid	E	E									F	F	F	F										
Perchloric acid	E	E	G	F	E	F	E	F	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
Perchloroethylene	E	E	F	F	F	F	F	F	F	F	F	F	E	G	F	F	G	G	G	F	F	F	F	
Petroleum	E	E	G	G	G	F	G	F	G	F	G	G	E	E	E				E		F	F	F	
Petroleum ether	E	E							G				E	E	E				E		F	F	F	
Phenol	E	E	G	G	E	E	E	E	E	G	F	F	F	F	F	F	F	F	F	F	F	F	F	
Phenyl ethanol	E	E			G		G								G									
Phenylhydrazine	E	E			G		G																G	
Phosphoric acid, 85%	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F	F	E	E	F	F	E	G	F	
Piperadine	E	E			E		E																F	
Potassium chloride	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		G	G	E	E	G	G	E	
Potassium Dichromate	E	E														F	F						G	
Potassium hydroxide	E	E	E	E	E	E	E	E	E	E	F	F	E	E	E		G	G	E	E	G	G	G	
Potassium permanganate	E	E	E	E	E	E	E	E	E	E	E	E	G	G	F	F	E	G	E	E	E	E	F	
Propanol	E	E	E	E	E	E	E	E	E	E	G		E	E	E	E	E	E	G		G		E	
Propionic acid	E	E	E	G	E	G	E	G	G	F	F	F	F	F	G	G				G	F	F	F	
Propylene glycol (propanediol)	E	E	E	E	E	E	E	E	E	E	E	G	E	E	F	F	F	F	G	G	E	E	E	
Pyridine	E	E	E	G	G	G	E	G	E	G	F	F	E	G	E		F	F	F	F	F	F	F	
Salicylaldehyde	E	E	E	E	E	E	E	E	E	E	G	G					F	F			F	F		
Salicylic acid	E	E	E	E	E	E	E	E	E	E			F	F	E		E	E			E	E	E	
Silver acetate	E	E	E	E	E	E	E	E	E	E	E	E	G	G			G	G	G	G	G	G	E	
Silver nitrate	E	E	E	E	E	E	E	E	E	E	E	E	G	G	E		E	E	E	E	G	G	E	
Sodium acetate	E	E	E	E	E	E	E	E	E	E	E	E	E	G	E		E	E	F	F	E	E	E	
Sodium Chloride	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		E	E	E	E	E	E	E	
Sodium dichromate	E	E	E	E	E	E	E	E	E	E	E	F	E	E	E		E	G	E	G	E	G	E	
Sodium fluoride	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		E	E	E	E	E	E	G	
Sodium hydroxide	E	E	E	E	E	E	E	E	E	E	F	F	E	E	E	G	E	E			E	E	G	

Medium	PTFE		PMP(IPX)		PP		HDPE		LDPE		PC		POM		PA		SAN		PMMA		PS		NR
	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C	50°C	20°C
Sulphuric acid, 60%	E	E	E	E	E	E	E	E	E	E	G	G	F	F	F	F	E	G	F	F	F	F	F
Sulphuric acid, 98%	E	E	E	E	F	F	G	F	G	F	F	F	F	F	F	F	F	F	F	F	F	F	F
Tartaric acid	E	E	E	E	E	E	E	E	E	E	E	E	E	E	G	G	E	E	G	G	E	E	E
Tetrachloroethylene	E	E													F	F							F
Tetrahydrofuran(THF)	E	E	G	F	F	F	G	F	G	F	F	F	G	G	E		F	F	F	F	F	F	F
Tetramethylammonium hydroxide	E	E									F	F	F	F									
Toluene	E	E	G	F	G	F	G	G	G	F	F	F	E	E	E		F	F	F	F	F	F	F
Tri-ethylene glycol	E	E	E	E	E	E	E	E	E	E	E	G	E	G			E	E	G	G	E	E	G
Tri-propylene glycol	E	E	E	E	E	E	E	E	E	E	E	G	E	G			E	E	G	G	E	E	E
Trichloroacetic acid	E	E	E	E	G	F	G	G	G	F	G	F			F	F					G	F	G
Trichlorobenzene	E	E	G	G	F	F	F	F	F	F	F	F									F	F	
Trichloroethane	E	E	F	F	F	F	G	F	F	F	F	F	G	F	G		F	F	F	F	F	F	F
Trichloroethylene	E	E	F	F	F	F	G	F	F	F	F	F	F	F	G		F	F	F	F	F	F	F
Trichlorotrifluoroethane	E	E													G		F	F			F	F	
Triethanolamine	E	E															F	F			F	F	G
Trifluoroacetic acid (TFA)	E	G											F	F			F	F			F	F	
Trifluoroethane	E	E															F	F			F	F	F
Turpentine	E	E	G	G	F	F	G	F	G	F	F	F	E	E	E		G	G	E	E	F	F	F
Urea	E	E	E	E	E	E	E	E	E	E	F	F	E	E	E		E	E	E	E	E	E	E
Xylene	E	E	G	F	F	F	G	F	G	F	F	F	E	E	E		F	F	F	F	F	F	F
Zinc Chloride, 10%	E	E	E	E	E	E	E	E	E	E	E	E	E	G	F	F	E	E	F	F	E	E	E
Zinc Sulphate, 10%	E	E	E	E	E	E	E	E	E	E	E	E	G	F	F	F	E	E	G	G	E	E	G

E = Continuous exposure to media and solvents causes no harm to the product.

G = Continuous exposure for 7 -30 days to media and solvents causes minor damage to the product.  
(e.g. swelling, softening, mechanical strength, discolouration).

F= Not Suitable for continuous exposure to media and solvents. May damage the product.  
(e.g. deformation, cracking, liquification).

The above Chemical resistance chart is meant to be used as a guide only. As temperature, exposure time and functional conditions affect resistance and can vary for each application, Abdos highly recommends users to evaluate products under their own conditions prior to use. Abdos does not warrant (neither expressed or implied) that the information in this chart is accurate or that any material is suitable for any purpose.



## WHAT IS GAMMA RADIATION?

Gamma rays are a form of electromagnetic radiation-like x-rays, but with higher energy. The primary industrial sources of gamma rays are radionuclide elements such as Cobalt 60, which emit gamma rays during radioactive decay. Gamma rays pass readily through plastics and kill bacteria by breaking the covalent bonds of bacterial DNA. They are measured in units called kiloGrays (kGy).

Gamma irradiation provides a number of benefits in cost and sterility assurance. It can be applied under safe, well-defined, and controlled operating parameters, and is not a heat or moisture generating process. Consequently, there is no heat stress and condensate drainage or outgassing is not required. Most importantly, there is no residual radioactivity after irradiation.

### DOSE VALIDATION

Gamma Radiation dose is validated according to IS. EN. ISO 11137-2

Method 1 to confirm the SAL  $10^{-6}$

For that routine testing of bioburden & Sterility test carried out at our manufacturing facility.

### VALIDITY OF STERILITY

We assure all sterile products have been sterile through Co-60 gamma radiation with valid certified dose and has been PASSED for all sterility tests. We confirm that the Sterile product would be Sterile until unless the packing pouch is not tampered/punctured/open or 3 yrs from date of Radiation.

## SUITABILITY OF ABDOS PLASTICS FOR FOODSTUFF

The phthalates for which opinions have been given by EFSA (European Food Safety Authority and TDI's (Tolerable Daily Intake) established for use in plastics for containers in food application, are not intentionally added in the manufacture of or the formulation of this product. The phthalates are di-isobutyl phthalate (DIBP), di-(2-ethylhexyl) phthalate (DEHP), di-n-butyl phthalate (DBP), di-iso-decyl phthalate (DIDP), butylbenzyl phthalate (BBP). In addition, di-iso-butyl phthalate (DIBP) has recently been classified by TC C&L of ECB (Commission Working Group on Classification & Labeling – European Chemicals Bureau) in accordance with the requirements of Directive 67/548/EC (Classification and labeling of dangerous substance), taking into account a NOAEL, the toxicity of DIBP is more than 100 times lower than DNBP's (product assessed by EFSA for use in plastics in contact with food). Phthalates are not used in the manufacture of or the formulation of any Abdos manufactured products.

Abdos manufactured products have passed the USP tests for a Class VI, physio-chemical testing and meets USP limits.

Abdos manufactured products are made from the base resin which meets the FDA requirements contained in the Code of Federal Regulation in 21 CFR 177.1520 (a)(3)(i) and (c)3.1a. 3. 2a. All other ingredients meet the requirements of their respective FDA regulations and 21 CFR 177.1520(b). All Abdos manufactured products meet the FDA criteria in 21 CFR 177.1520 for food contact applications, including cooking.

## AUTOCLAVE GUIDE LINE

To ensure successful steam sterilization of your plastic labware please adhere to the following guideline: Autoclave all plastic consumables at 121°C for 20 minutes, 15psi/1 atm. Do not use a dry cycle as this may cause deformation or weakening of the plastic. Allow temperature within the autoclave to return to at least 80°C before removing product.

Autoclaving (steam sterilisation) is defined as the destruction or irreversible inactivation of all reproducible microorganisms under exposure to "saturated steam at a minimum of 120 °C." (DIN 58946-1, 1987). DIN EN 285 specifies a minimum exposure time ( $t_e$ ) of 20 minutes (killing time and safety margin) at a sterilisation temperature of 121 °C. For the correct sterilisation procedure, including biological safety (DIN EN285), please contact your hygiene specialist.

Prior to autoclaving plastic labware, ensure that no soiling or residual contamination remains on the equipment. Otherwise, the residual contamination will bake on solidly during the autoclaving process.

Even substances that have no effect on the plastic at room temperature can still lead to destruction of the plastic during the autoclaving process. Additionally, microorganisms might not be killed effectively if they are protected by the residual contamination.

### NOTES ON AUTOCLAVING

- Containers with screw tops or stoppers must be open during autoclaving to allow for pressure equalisation.
- Autoclaving of a closed container will lead to the deformation or destruction of the container.
- Plastic labware should be stood upright on a level surface during autoclaving to avoid shape deformation.
- Plastic labware should not be laid on its side during autoclaving.
- No mechanical stresses should be present during autoclaving.
- For example, do not stack items.
- Do not autoclave any container that contains residual contamination or even rinsing agent.
- Not all plastics are resistant to steam sterilisation! For example, polycarbonate loses its tensile strength.
- Mind the temperature limits for the plastics.
- Autoclavable products are identified with a "121 °C" symbol in this catalogue.

The surfaces of some plastics can be attacked by chemicals present during autoclaving, which can cause persistent clouding. Some transparent plastics can absorb minute quantities of steam, which can lead to reversible clouding. This clouding disappears upon drying, which can be accelerated through the use of a drying oven.

## RPM VS. RCF "WHAT'S THE DIFFERENCE?"

**RPM** – stands for "Revolutions Per Minute" and is the speed that your rotor spins in your centrifuge.

RPM is specific to individual centrifuge brands and rotor sizes.

**RCF** – stands for "Relative Centrifugal Force" and is better known as g-force. This indicates the actual force resulting from the spinning action in the centrifuge.

It is g-force that drives sample separation.

The following equation can be used to convert RPM to RCF for any model centrifuge.

$$RCF = 0.0001118 \times \text{radius of rotation (cm)} \times \text{RPM}^2$$

Note: radius of rotation is given by the distance of the furthest most point of the tube from the axis of rotation. Please refer to your centrifuge user guide for radius value.

## NON-PYROGENIC CERTIFICATE OF ANALYSIS

Every lot of Abdos Micro Tips, Micro Centrifuge Tubes, Centrifuge Tubes, Cryo Vials, Petri Dish, Radioimmunoassay (Ria) Vials, Pasteur Pipette & other products are tested for Pyrogenic.

This report certifies that samples of the above products obtained from finished products are Non-Pyrogenic. Endotoxin levels are  $\leq 0.005$  EU/device. Products were tested for Endotoxins as per USP by Chromogenic Assay Method.

### PROCEDURE:

Lot samples of the products were extracted according to current FDA guidelines in Pyrogen free water and the extract solution was then assayed along with the positive and negative controls.

- A. P11007 Lot no. A261118B
- B. P60116 Lot no. A251019A
- C. P10202 Lot no. M110919C07
- D. P10163 Lot no. A281119A
- E. P10401 Lot no. A110919A
- F. P10301 Lot no. M140919C06
- G. P10901 Lot no. M230919B12

### RESULTS:

Endotoxin levels  $\leq 0.005$  EU/ml

### COMMENTS:

Current FDA/USP guidelines set endotoxin limits for medical devices at 0.5 EU/ml, and 0.06 EU/ml for devices that contact cerebral spinal fluid. We test products according to the guidelines for medical devices that contact cerebral spinal fluid.

## RNASE FREE CERTIFICATE OF ANALYSIS

Every lot of Abdos Micro Tips, Micro Centrifuge Tubes, Centrifuge Tubes, Cryo Vials, Petri Dish, Radioimmunoassay (Ria) Vials, Pasteur Pipette & other products are tested for RNase.

This report certifies that samples of the above products obtained from finished products are free of any detectable RNase contamination. Products were tested for RNase activity by the following protocol.

### PROCEDURE:

Products were extracted in RNase free water. The extract was then added to an RNA standard. The RNA standard was incubated at 37°C for 1 hour then heated to 65°C for 5 minutes. RNA samples were then run on an agarose gel, photographed, and evaluated for degradation.

Lane (A) P10105 Lot No-1503001.(B) P60102 Lot No-1503007.(C) RNA standard exposed to RNase as a positive control (D) unexposed RNA standard as a negative control.

### CONCLUSIONS:

No visible degradation is present in the product samples confirming that the products can be considered RNase free.



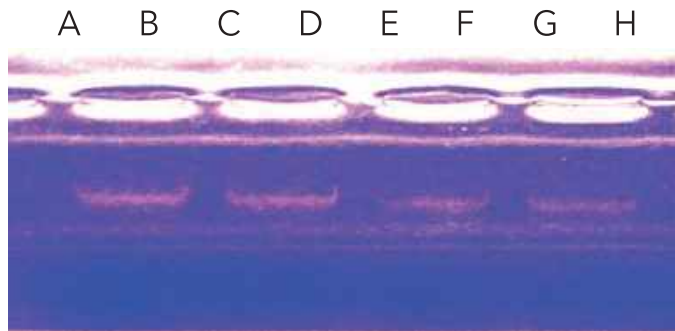
## DNASE FREE CERTIFICATE OF ANALYSIS

Every lot of Abdos Micro Tips, Micro Centrifuge Tubes, Centrifuge Tubes, Cryo Vials, Petri Dish, Radioimmunoassay (Ria) Vials, Pasteur Pipette & other products are tested for DNase.

This report certifies that samples of the above products obtained from the finished products are free of any detectable DNase contamination. Products were tested for DNase activity by the following protocol.

### PROCEDURE:

Products were extracted in DNase free water. The extract was then added to a DNA standard. The DNA standard was incubated at 37°C for 1 hour then heated to 65°C for 5 minutes. DNA samples were then run on an agarose gel, photographed, and evaluated for degradation.



Lane (A) unexposed DNA standard as a negative control (B) DNA standard exposed to DNase as a positive control (C) P10105 Lot No-1503001, (D) P60102 Lot No-1503007, (E) P10202 Lot No-1503036, (F) P10401 Lot No-1503009, (G) P10403 Lot No-1503010, (H) P60103 Lot No-1502010.

### CONCLUSIONS:

No visible degradation is present in the product samples confirming the products can be considered DNase free.

## ATP FREE CERTIFICATE OF ANALYSIS

Every Lot of Abdos Micro Tips, Micro Centrifuge Tubes, Centrifuge Tubes, Cryo Vials, & Other Products are tested for ATP Free.

- A. P11007 Lot no. A261118B
- B. P60116 Lot no. A251019A
- C. P10202 Lot no. M110919C07
- D. P10163 Lot no. A281119A
- E. P10401 Lot no. A110919A

### PROCEDURE:

Procedure is to provide guidelines for ATP FREE Test (by Glucose Oxidase/ATP Method). Glucose is a widely distributed simple sugar with an active aldehyde group. Estimation of glucose by glucose oxidase gives the true glucose concentrations eliminating the interference by other reducing sugars.

### PRINCIPLE:

Glucose oxidase catalyses the oxidation of alpha-D-glucose to D-glucono-1, 5 lactone (gluconic acid) with the formation of hydrogen peroxide. The oxygen liberated from hydrogen peroxide by peroxidase reacts with the O-dianisidine & oxidizes it to a red chromophore product. Read the colour intensity at 540 through UV Spectrophotometer or at 450 through ELISA.

### Glucose + O<sub>2</sub>

Glucose Oxidase  $\rightarrow$  H<sub>2</sub>O<sub>2</sub> + Gluconic Acid

H<sub>2</sub>O<sub>2</sub> + O-dianisidine Peroxidase  $\rightarrow$  Red colour product

### CONCLUSIONS:

The tested products are free from ATP detectable contamination ( $<1.0$ fg).

## HUMAN DNA FREE CERTIFICATE OF ANALYSIS

Every Lot of Abdos Micro Tips, Micro Centrifuge Tubes, Centrifuge Tubes, Cryo Vials, & Other Products are tested for ATP Free.

- A. P11007 Lot no. A261118B
- B. P60116 Lot no. A251019A
- C. P10202 Lot no. M110919C07
- D. P10163 Lot no. A281119A
- E. P10401 Lot no. A110919A

### PROCEDURE:

Nucleic Acid (DNA) extraction and measurement were done by the procedures of Zachleder (50) as applied by Danovaro et al (9) and Danovaro(10), with a few modifications to enhance DNA extraction from the sediment. Briefly, 1g of sediment (three replicates) was treated with 3.0 ml of 0.5N Perchloric acid, stirred for 3min & sonicated three times for 1min (with intervals of 30 sec). Nucleic acid extraction was carried out 75 °C for 30min under continuous stirring on water bath. After centrifugation (3000 rpm, 10min), the absorbance of the Total Nucleic Acid (TNA) in the supernatant was measured at 260 nm. For RNA take absorbance on 230 nm & for protein on 280 nm.

### CONCLUSIONS:

The tested products are free from Human DNA detectable contamination ( $<0.5$  pg/microliter).

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E11111	42	E11183D	72	E11303	168	E11361	161	E11816	179	E12165	106
E11113	76	E11184D	72	E11305	170	E11362	161	E11821	179	E12170	106
E11114	77	E11185D	72	E11307	154	E11363	161	E11823	179	E12171	106
E11116	77	E11186D	72	E11308	154	E11364	161	E11824	179	E12172	106
E11117	77	E11187D	72	E11309	154	E11365	161	E11825	179	E12173	106
E11118	77	E11190	167	E11310	165	E11366	161	E11826	179	E12174	106
E11119	76	E11191	167	E11311	165	E11367	161	E11830	179	E12175	106
E11120	77	E11192	167	E11312	165	E11368	161	E11895	177	E12177	106
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E11154	40	E11232	155	E11331	161	E11490	175	E11942	178	E12190	107
E11155	40	E11233	157	E11332	161	E11495	172	E11943	178	E12191	107
E11156	40	E11235	159	E11333	161	E11501	30	E11944	178	E12193	107
E11157	40	E11236	159	E11334	161	E11502	30	E11948	178	E12193	107
E11158	40	E11260	176	E11335	161	E11503	30	E11949	178	E12194	107
E11159	43	E11261	176	E11336	161	E11510	29	E11950	178	E12194	107
E11160	43	E11270	169	E11337	161	E11511	29	E11951	178	E12195	107
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