

LABWARE
CATALOG

ABDOS 



WELCOME

to the latest edition of
Abdos Labtech product catalog.

Abdos Labtech Private Limited is a manufacturer of high quality plastic laboratory products. Established in 2009 our state-of-art manufacturing facility is located at Roorkee, Uttarakhand about 4 hours from India capital New Delhi. Since inception we have been prototyping, designing, developing and producing high quality plastic products for used in life science laboratory around the world.

We are an ISO 9001:2008 certified company and CE marked with intense quality control measures and periodic reviews to ensure our plant and maintenance system run effectively and efficiently leaving no compromise on the quality served to the end user.

We manufacture industry-leading products through our efficient machines, precise mould, virgin medical grade resin, automatic platforms and clean room. This edition of the product catalogue with 12-product line demonstrates our continuous endeavor to cover large aspects of end users needs. As always we are constantly evaluating new products keeping in mind new areas of growth and end users needs.

Abdos Labtech is part of the Abdos Group established in the year 1967. The group has other business interests in laminated tubes, contract manufacturing, woven sacks, distribution and FMCG. Our group long-term relationships include global companies like Unilever and TATA.

We thank all our stakeholders, customers and channel partners for their continuous support in the growth of Abdos.







ASSURED 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. ”

OBJECTIVE

We are committed to provide 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.







DNV BUSINESS ASSURANCE MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 70874-2010-AQ-IND-RvA Rev. 01

This is to certify that

ABDOS LABTECH PRIVATE LIMITED

at

Registered Office: 13 A, Government Place (East), 2nd Floor,
Kolkata – 700 069, West Bengal, INDIA
Head Office: Unit No.721, 7th Floor DLF Tower 'A' DDA District Centre,
Jasola, New Delhi – 110 044, INDIA
Works: Plot No - 1, Shivganga Industrial Estate, Lakeshwari, Bhagwanpur,
Roorkee - 247 667, Distt. Haridwar, Uttarkhand, INDIA

has been found to conform to the Quality Management System Standard:

ISO 9001:2008

This certificate is valid for the following scope:

MANUFACTURE AND MARKETING OF PLASTIC LABWARE

Initial Certification date:
04 February 2010

This Certificate is valid until:
03 February 2016

The audit has been performed under the supervision of:

Amitabh Sharma
Lead Auditor

Place and date of issue:
Chennai, 17 January 2013

for the Accredited Unit:
DET NORSKE VERITAS CERTIFICATION B.V.,
THE NETHERLANDS



Bhupalam Ajit
Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement & the annexure to this certificate may render this Certificate invalid.

DET NORSKE VERITAS CERTIFICATION B.V. Zoeloseweg 1, 2994 LB Barendrecht, The Netherlands, TEL: +31 10 2222 688 - www.dnv.com / www.dnv.nl
ISSUED BY: DET NORSKE VERITAS AS, EMERGE CHAMBERS, 10, G.S.T. ROAD, SANTA CRUZ (E), MUMBAI - 400 008, INDIA - www.dnv.com / www.dnvindia.com



Certificate of Compliance



Confirms that the products of class I according to EU Council Directive: 98/79/EC of 27 October 1998 on In vitro diagnostic medical devices Directive.

Certificate No.: CE-1543

Manufacturer

Name : **Abdos Labtech Private Limited**

Address : **Plot No-1, Shivganga Industrial Area, Lakshewari Bhagawanpur, Roorkee, Uttarakhand-247667, India**

Products : **Micro Tips, Micro Centrifuge Tubes, Centrifuge Tube with Conical Bottom, Cryo Vials, Ria Vials and Sample Containers with Cap**

Product Description : **ALPL/TCF/00 dated 20.10.2013**

Complies with the requirements applicable to it

The manufacturer's technical documentation as required for class I device has been reviewed and found to comply with the requirements in Annex VII, Section-3 and any significant changes in the design or construction of the product, not agreed upon by us, this declaration will lose its validity.

This certificate is issued under the following conditions:

1. It applies only to the quality system maintained in the manufacture of above referred models and it does not substitute the design or type examination procedures, if requested.
2. The certificate remains valid until the manufacturing conditions or the quality systems are changed.
3. The certificate validity is conditioned by positive results or surveillance audits on yearly basis.
4. After fulfilling the relevant EU legislation, the manufacturer shall affix to each device, of the referenced models.
5. The CE mark as shown above can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of conformity and compliance with all relevant EC Directives. The statement is based on a single evaluation of each sample of above mentioned products. It does not imply an assessment of the whole production.

Validity of this certificate can be verified at www.ukcertifications.co.uk/verify

Date of initial registration 18th November 2013

Date of this certificate 18th November 2014

Certificate expiry 17th November 2015

Recertification due (subject to the company maintaining its system to the required standard) 17th November 2016

Daniel..
Authorised Signatory



This certificate is the property of UK Certification & Inspection Limited and shall be returned immediately on request.

5 Jupiter House Calleva Park, Aldermaston, Reading Berkshire RG7 8NN. UK

Website:- www.ukcertifications.co.uk

Certificate

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 < 0.06 EU/ml. Products were tested for Endotoxins by the Limulus Amebocyte Lysate (LAL) Gel Clot Assay.

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. The sensitivity of the LAL Gel Clot Assay was 0.06 EU/ml.

(A) P10105 Lot No-1503001 , (B) P60102 Lot No-1503007, (C) P10202 Lot No-,1503036 (D) P10401 Lot No-1503009, (E) P10403 Lot No-1503010

RESULTS:

Endotoxin levels <0.06 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.



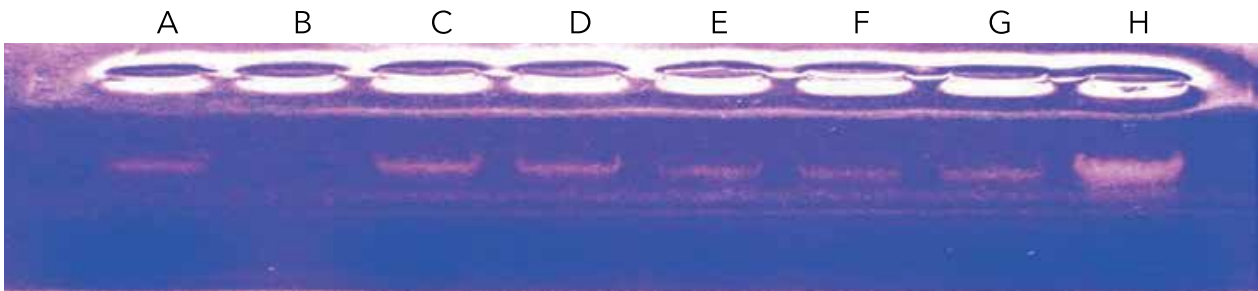
DNase FREE CERTIFICATE OF ANALYSIS

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.

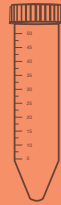
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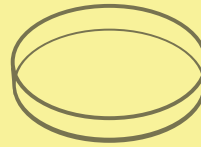
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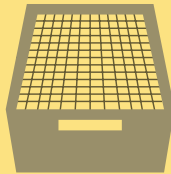


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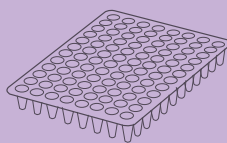


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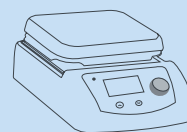
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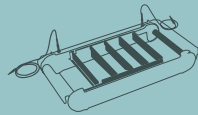
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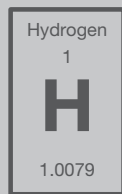
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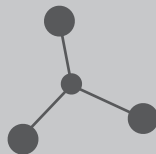
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**TECHNICAL PROPERTIES
OF ABDOS LABWARE**



CENTRIFUGE
WARE





01 Micro Centrifuge Tubes, PP

- Abdos micro centrifuge tubes are made from highest quality of virgin polypropylene.
- Abdos Micro Centrifuge Tube are RNase, DNase & Pyrogen free for safer use in molecular biology and other biochemical applications.
- These tubes can be used at -80 °C and with various organic solvents.
- These tubes are with integral snap cap.
- Frosting on the surface of the tubes makes writing easier.
- Large moulded in graduations makes identification easy.
- Maximum RCF 20000. Can be autoclaved.
- Amber colour micro centrifuge tubes suitable for light sensitive samples do not allow any light to pass through the samples.



Micro Centrifuge Tubes, Natural

Code	Capacity (ml)	Outer Diameter (mm)	Height (mm)	No. Per Case	Price / Case (₹)	Price / 144 Case (₹)
P10201	0.5	10	31.5	1000	551	74584
P10202	1.5	13	41	500	399	54009
P10203	2.0	13	41	500	437	59153



Micro Centrifuge Tubes, Coloured & Amber

Code	Capacity (ml)	Outer Diameter (mm)	Height (mm)	No. Per Case	Price / Case (₹)
P10207	0.5 Coloured	10	31.5	1000	672
P10201A	0.5 Amber	10	31.5	1000	704
P10204	1.5 Coloured	13	41	500	441
P10204A	1.5 Amber	13	41	500	499
P10205	2.0 Coloured	13	41	500	494
P10203A	2.0 Amber	13	41	500	546



*P10207, P10204 & P10205 is available in Red, Blue, Yellow and Green

02 Micro Pestles, PP



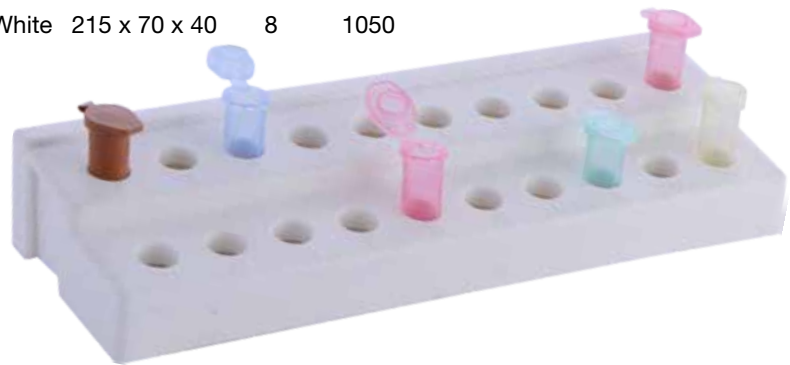
- Abdos disposable micro pestle are made from the highest quality of virgin polypropylene.
- These are excellent for resuspending bacterial cells, precipitates of nucleic acids or proteins and pellets of other material.
- Can be autoclaved.

Code	Length (mm)	No. Per Case	Price/Case (₹)
P10206	85	10	300

03 Rack for Micro Centrifuge Tube, RPP

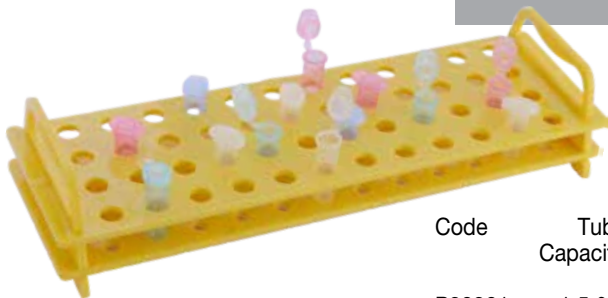
- Sturdy rack with rubbered support at the bottom for stability.
- Racks lock together on each side to allow user to attach several racks for larger experiments.
- Compatible with both 1.5ml and 2.0ml Micro Centrifuge Tube.
- Easy removal and insertion of tubes.
- Each hole has molded-in numbers for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

Code	Tube Capacity (ml)	Places	Colour	L x W x H (mm)	No. per Case	Price / Case (₹)
P20205	1.5 & 2	20 Places (10 x 2 Array)	White	215 x 70 x 40	8	1050



04 Rack for Micro Centrifuge Tube, PC

- Easy to hold ergonomic design.
- Each hole has molded in numbers and letters for easy sample identification.
- Racks are stackable when empty or full.
- Easy removal and insertion of tubes.
- Compatible with both 1.5ml and 2.0ml Micro Centrifuge Tube.
- Can be used in wide temperature range.
- Can be autoclaved.



Code	Tube Capacity (ml)	Places	Colour	L x W x H (mm)	No. per Case	Price/ Case (₹)
P20201	1.5 & 2.0	24 (6 x 4 Array)	White	164 x 100 x 59	8	1680
P20202	1.5 & 2.0	24 (6 x 4 Array)	Yellow	164 x 100 x 59	8	1680
P20203	1.5 & 2.0	48 (12 x 4 Array)	White	293 x 100 x 59	8	3070
P20204	1.5 & 2.0	48 (12 x 4 Array)	Yellow	293 x 100 x 59	8	3070



CENTRIFUGE TUBES

EASY TO OPEN & EASY TO CLOSE

CORROSIVE CHEMICAL PROOF PRINTING

CENTRIFUGATION RATE (SWING BUCKET / FIXED ANGLE ROTORS) 4,000 / 15,000 X G

HIGHLY TRANSPARENT FOR TWO PHASE LIQUID SEPARATION AS IN NUCLEIC ACID ISOLATION

THE UNIQUE GRIP SCREW CAP PROVIDES A SECURE GRIP IN WET CONDITIONS

NPL APPROVED ACCURATE GRADUATION

LARGE CHEMICAL PROOF WHITE WRITING AREA ON THE TUBE

HYDRODYNAMICALLY CONICAL BOTTOM FOR PERFECT PELLETING OF SEDIMENTS



- Even wall thickness to withstand maximum G force.
- Specially design flat thread confirm perfect vacuum tight closure make leak proof & prevent from override of cap.
- Unique pluck seal ensure perfect sealing & make leak proof.

All Tubes are manufactured from Ultra pure USFDA & USP Class VI, virgin polypropylene to ensure the highest quality product.

Free from Heavy metals, natural rubber & inhibitory plasticizers.

05

Centrifuge Tubes Conical Bottom, PP/HDPE

- Abdos centrifuge tubes are manufactured in state of the art moulded facility using high purity virgin polypropylene.
- Large white frosted portion for easy writing.
- Silk-Screen graduation makes identification easy.
- Option of Amber colour for light sensitive sample.
- Build in plug in the cap makes it leak proof.
- Free from natural rubber, heavy metal.
- Radiation sterilized.
- Maximum RCF 15000*.
- Can be autoclaved.



Centrifuge Tube Conical Bottom, PP Natural

Code	Capacity (ml)	Colour of Cap	Outer Diameter (mm)	Height (mm)	No. Per Case	Price / Case (₹)	Price / 20 Case (₹)
P10401	15	Blue	16.5	121	500	3325	62510
P10402	15 (Sterile)	Blue	16.5	121	500	3610	67868
P10403	50	Blue	29.2	116	500	4472	84074
P10404	50 ml (Sterile)	Blue	29.2	116	500	5543	104209

Centrifuge Tube Conical Bottom, PP Amber

Code	Capacity (ml)	Colour of Cap	Outer Diameter (mm)	Height (mm)	No. Per Case	Price / Case (₹)
P10405	15 (Amber)	Blue	16.5	121	500	4182
P10406	15 (Sterile Amber)	Blue	16.5	121	500	4590
P10407	50 (Amber)	Blue	29.2	116	500	5616
P10408	50 (Sterile Amber)	Blue	29.2	116	500	6942

* Depending on the quality of Centrifuge and compatibility of Rotor.
Sterile Tubes has been validated according to EN ISO 11137 - 2; 2012 for SAL 10⁻⁶

06

Self Standing Centrifuge Tubes, PP/HDPE



- Abdos centrifuge tubes self-standing are manufactured in state of the art moulded facility using high purity virgin polypropylene.
- Self-standing tubes make it easy to use.
- Large white frosted portion for easy writing.
- Silk-Screen graduation makes identification easy.
- Build in plug in the cap makes it leak proof.
- Free from natural rubber, heavy metal.
- Radiation sterilized.
- Maximum RCF 3500
- Can be autoclaved

Code	Capacity (ml)	Colour of Cap	Outer Diameter (mm)	Height (mm)	No. Per Case	Price / Case (₹)
P10423	50	Blue	29.2	117.3	500	4955
P10424	50 (Sterile)	Blue	29.2	117.3	500	6110

*Sterile Tubes has been validated according to EN ISO 11137 - 2; 2012 for SAL 10⁻⁶



07 Racked Centrifuge Tube Conical Bottom, Paper

- These racks are designed to hold Centrifuge Conical Bottom.
- These racks designate a convenient solution for storing Abdos Centrifuge Tube.
- These racks are made out of virgin paper to hold 25 Abdos 15ml & 50 ml Conical Bottom Centrifuge Tube .

Code	Capacity (ml)	Height (mm)	No. Per Case	Price /Case (₹)
P10409	15 (Rack Only)	47	10	700
P10410	50 (Rack Only)	48	10	700
P10411	15 (Racked)	125	750 (25 pcs x 30 racks)	6638
P10412	15 (Racked, Sterile)	125	750 (25 pcs x 30 racks)	7500
P10413	15 (Amber, Racked)	125	750 (25 pcs x 30 racks)	7875
P10414	15 (Sterile Amber, Racked)	125	750 (25 pcs x 30 racks)	8625
P10415	50 (Racked)	123	400 (25 pcs x 16 Racks)	5156
P10416	50 (Racked, Sterile)	123	400 (25 pcs x 16 Racks)	5962
P10417	50 (Amber, Racked)	123	400 (25 pcs x 16 Racks)	6400
P10418	50 (Sterile Amber, Racked)	123	400 (25 pcs x 16 Racks)	7400



*Sterile Tubes has been validated according to EN ISO 11137 - 2; 2012 for SAL 10⁻⁶



08 Centrifuge Tubes Conical Bottom, PS/HDPE

- Abdos centrifuge tubes are manufactured in state of the art moulded facility using high purity virgin polystyrene.
- Polystyrene centrifuge tube are hydrophobic.
- Its biologically inert surface is good for cell and protein recovery
- Perform well with animal cell culture handling .
- Large white frosted portion for easy writing.
- Silk-Screen graduation makes identification easy.
- Build in plug in the cap makes it leak proof.
- Radiation sterilized.
- Maximum RCF 2500.

Code	Capacity (ml)	Colour of Cap	Outer Diameter (mm)	Height (mm)	No. Per Case	Price / Case (₹)
P10419	15 (Sterile)	Blue	16.5	117.8	500	4316
P10421	15 (Racked Sterile)	Blue	16.5	125	750 (25 pcs x 30 racks)	8100

*Sterile Tubes has been validated according to EN ISO 11137 - 2; 2012 for SAL 10⁻⁶

09 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 15ml and blue colour on the 50ml makes these racks easy to distinguish.
- These racks can withstand a temperature of -90°C to 121°C.
- All grids are properly indexed with clear lid that provides easy tube identification.
- Can be autoclaved.

Code	Tube Capacity (ml)	Places	L x W x H (mm)	No. per Case	Price / Case (₹)
P20604	15	36 (6 x 6 Array)	147 x 147 x 126	4	1397
P20605	50	16 (4 x 4 Array)	147 x 147 x 126	4	1397



10 Click Together Conical Tube Racks, ABS



- Shipped flat they are easy to assemble and snap together securely.
- Designed for stable use in water bath.
- Alphanumeric index aids for tube identification.
- Not autoclavable.

Code	Tube Capacity (ml)	Places	L x W x H (mm)	No. per Case	Price/ Case (₹)
P20218	15 & 50	15 ml Tube - 30 (6 x 5 Array) 50 ml Tube - 20 (5 x 4 Array)	209 x 171 x 63	4	1900

11 Universal Centrifuge Tube Rack, PP

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

Code	Tube Capacity (ml)	Places	Colour	L x W x H (mm)	No. per Case	Price/ Case (₹)
P20212	15 & 50	12 (4 x 3 Array)	Blue	194 x 140 x 51	1	3500

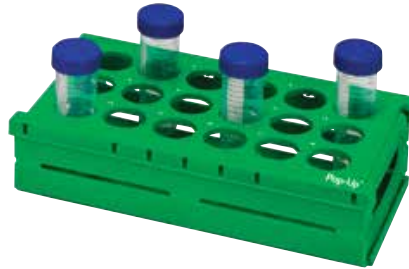




12 Foldable Space Savings Rack, PP

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

Code	Tube Capacity (ml)	Places	Colour	L x W x H (mm)	No. per case	Price/Case (₹)
P20213	15	45 (9 x 5 Array)	Purple	255 x 137 x 72	2	2200
P20214	50	18 (6 x 3 Array)	Green	255 x 137 x 72	2	2200
P20215	15 & 50	15 ml Tube - 21 (7 x 3 Array) & 50 ml Tube - 12 (6 x 2 Array)	Blue	255 x 137 x 72	2	2200
P20216	15 & 50	15 ml Tube - 21 (7 x 3 Array) & 50 ml Tube - 12 (6 x 2 Array)	Pink	255 x 137 x 72	2	2200



13 Wire Centrifuge Bottle Rack, Epoxy Coated Steel Wire

- Durable racks for transport or sample handling.
- Suitable for various round, conical, flat bottom in glass, plastic tubes and bottles.
- Superior chemical resistance.
- Holds bottles and vessels up to 60 mm in diameter.
- Slotted bottom.
- Can be autoclaved.



Code	Tube Capacity (ml)	Places	L x W x H (mm)	No. per Case	Price / case (₹)
P20217	60 (upto 250ml Tube)	6 (2 x 3 Array)	205 x 135 x 104	1	1300

14

Swirl Mini Micro Centrifuge

- Swirl is a small, compact and reliable centrifuge for spin-down and microfiltration procedures.
- Swirl is supplied with a 8 place angular rotor of 1.5 ml and PCR rotor that admit two stripes of 0.2 ml PCR strip.
- Swirl has a maximum speed of 7000 rpm / 2680xg RCF.
- Swirl uses minimal bench-top space.
- Rotor can change without tools and machine accelerates and breaks in seconds.
- Swirl adapts a Brushless DC Motor.



Specification

Voltage	AC 220 – 240 V
Frequency	50 Hz
Max Speed	7000 rpm
Max. RCF	2680xg
Run Time	Continuous operation
Rotor Capacity	(i) 0.2ml x 16 PCR Tubes (ii) 0.2 ml x 2 PCR 8 strips (iii) 1.5 / 2 ml x 8 Tubes
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%

Code	Product	No. per Case	Price / Case (₹)
E11501	Swirl Mini Micro Centrifuge	1	13000

Spare Accessories:

Code	Product	No. per Case	Price /Case (₹)
E11502	8 Place Rotor for 1.5 & 2.0 ml	1	3500
E11503	16 (8 x2) Strips Place Rotor for 0.2 ml PCR Tube & 16 Place Rotor for 0.2 ml PCR Tube	1	2600



15 Swirl Maxi Micro Centrifuge

- Swirl Maxi is a personnel 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.
- Both RPM and G-force can be displayed.
- Swirl Maxi has a large ergonomic design with easy to read display and sound.
- 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 and CE, TUV and FCC marked.
- Swirl Maxi adapts a Brushless DC Motor.

Code	Product	No. per Case	Price /Case (₹)
E11510	Swirl Maxi Micro Centrifuge	1	69900

Spare Accessories:

Code	Product	No. per Case	Price /Case (₹)
E11511	12 Place Rotor for 0.2, 0.5, 1.5 & 2.0 ml	1	23500
E11512	Rotor Adapter for 2.0 ml - 0.2 ml used with E11511	24	5300
E11513	Rotor Adapter for 2.0 ml - 0.5 ml used with E11511	24	5300

Specification

Voltage	Single-phase, AC 220 – 240 V
Frequency	50 Hz
Current	3A
Max Speed	15000 rpm (500-15000rpm) with increment of 100 rpm
Max. RCF	15100xg with increment of 100xg
Speed Accuracy	±20 rpm
Rotor Capacity	0.2mL, 0.5mL, 1.5 ml & 2mL x 12 places.
Run Time	30sec-99min-HOLD (Continuous operation)
Driving Motor	Brushless DC motor
Safety Devices	(i) Dual door interlock (ii) Over-speed detection (iii) Over temperature detection (iv) Automatic internal diagnosis
Noise level	≤54 dB
Additional Features	(i) Speed/RCF switch (ii) Short-time run function (iii) Sound-alert function
Acceleration / Breaking time	11 sec for Acceleration & 9 sec for Breaking
Dimensions	255 x 245 x 140 mm
Weight	6 kg
Permissible ambient temperature	+ 4 to + 45° C
Permissible relative humidity	80%



Swirl Pro High Speed Micro Centrifuge

- Swirl Pro is a 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 Pro is used in physical and chemical analysis, biochemistry, cellular biology, clinical labs, blood donation centre and high-end research.
- Swirl Pro has a large ergonomic design with easy to read display and sound alert.
- Automatic lid opening when run is complete prevents sample warming and allow easy access of samples.
- Both RPM and G-force can be displayed.
- Swirl Pro is stable and silent during operation. It also delivers fast acceleration and deceleration.
- Swirl Pro conforms to international safety standards and regulations. It has also passed the explosion proof test and CE, TUV and FCC marked.
- Special multi-flow air-cooling design helps to keep lower rotor temperature.
- Unique cooling system design minimizes rotor heating to less than 10°C after running for 1 hour.
- Bio-safe rotor and anti-sample overflow prevents sample does not leak in centrifugal process causing microbial contamination.
- Robust aluminum alloy rotor can be fully autoclaved.
- Swirl Pro adapts a Brushless DC Motor.

Specification

Voltage	Single-phase, AC 220 – 240 V
Frequency	50 Hz
Current	5A
Max Speed	15000 rpm (200-15000rpm) with increment of 10 rpm
Max. RCF	21380xg with increment of 10xg
Speed Accuracy	±20 rpm
Rotor Capacity	(i) 5mL x 18 places. (ii) 0.2mL/0.5mL/ 1.5 ml/2mL x 24 places. (iii) 0.5mL x 36 places (iv) PCR 8 x 4 places
Run Time	30sec-99min-HOLD (Continuous operation)
Driving Motor	Brushless DC motor
Safety Devices	(i) Dual door interlock (ii) Over-speed detection (iii) Over temperature detection (iv) Automatic internal diagnosis
Noise level	≤58 dB
Additional Features	(i) Speed/RCF switch (ii) Short-time run function (iii) Sound-alert function
Acceleration / Breaking time	25 sec for both Acceleration and Breaking
Dimensions	280 x 364 x 266 mm
Weight	12 kg
Permissible ambient temperature	+ 4 to + 45° C
Permissible relative humidity	80%





E11521



E11522



E11523



E11524



E11525, 26, 27
Rotor Adapters

Code	Product	No. per Case	Price /Case (₹)
E11520	Swirl Pro High Speed Micro Centrifuge	1	200000

Spare Accessories

Code	Product	No. per Case	Price /Case (₹)
E11521	24 Place Rotor for 0.2, 0.5, 1.5 & 2.0 ml	1	23500
E11522	18 Place Rotor for 5.0 ml	1	23500
E11523	36 Place Rotor for 0.2 & 0.5 ml	1	23500
E11524	32 (8 x 4) Place Rotor for 0.2 ml PCR	1	57000
E11525	Rotor Adapter for 2.0 ml - 0.2 ml used with E11521	24	5300
E11526	Rotor Adapter for 2.0 ml - 0.5 ml used with E11521	24	5300
E11527	Rotor Adapter for 0.5 ml - 0.2 ml used with E11523	36	7800

17 Swirl Refrigerated Pro High Speed Micro Centrifuge

- Swirl Refrigerated Pro is a 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 Refrigerated Pro is used in physical and chemical analysis, biochemistry, cellular biology, clinical labs, blood donation centre and high-end research.
- Swirl Refrigerated Pro has a large ergonomic design with easy to read display and sound alert.
- Automatic lid opening when run is complete prevents sample warming and allow easy access of samples.
- Both RPM and G-force can be displayed.
- Swirl Refrigerated Pro has special pre-cooling feature that cools down prior to operation and keeps the chamber at the pre-set temperature.
- Swirl Refrigerated Pro has a powerful cooling system that brings down the temperature to 2°C in 7 minutes and maintain the sample temperature at 2°C at its maximum speed at room temperature of 25°C.
- Swirl Refrigerated Pro is stable and silent during operation. It also delivers fast acceleration and deceleration.
- Swirl Refrigerated Pro conforms to international safety standards and regulations. It has also passed the explosion proof test and CE, TUV and FCC marked.
- Special multi-flow air-cooling design helps to keep lower rotor temperature.
- Unique cooling system design minimizes rotor heating to less than 10°C after running for 1 hour.
- Bio-safe rotor and anti-sample overflow prevents sample does not leak in centrifugal process causing microbial contamination.
- Robust aluminum alloy rotor can be fully autoclaved.
- Swirl Refrigerated Pro adapts a Brushless DC Motor.

Specification

Voltage	Single-phase, AC 220 – 240 V
Frequency	50 Hz
Current	10A
Max Speed	15000 rpm (200-15000rpm) with increment of 10 rpm
Max. RCF	21380xg with increment of 10xg
Speed Accuracy	±20 rpm
Temperature Range	-20°C - +40°C
Rotor Capacity	(i) 5mL x 18 places. (ii) 0.2mL/0.5mL / 1.5 ml/2mL x 24 places. (iii) 0.5mL x 36 places (iv) PCR 8 x 4 places
Run Time	30sec-99min-HOLD (Continuous operation)
Driving Motor	Brushless DC motor
Safety Devices	(i) Dual door interlock (ii) Over-speed detection (iii) Over temperature detection (iv) Automatic internal diagnosis
Noise level	≤56 dB
Additional Features	(i) Speed/RCF switch (ii) Short-time run function (iii) Sound-alert function
Acceleration / Breaking time	25 sec for both Acceleration and Breaking
Dimensions	338 x 580 x 324 mm
Additional Features	(i) Speed/RCF switch (ii) Short-time run function (iii) Sound-alert function
Weight	30 kg
Permissible ambient temperature	+ 4 to + 45° C
Permissible relative humidity	80%





E11521



E11522



E11523



E11524



E11525, 26, 27
Rotor Adapters

Code	Product	No. per Case	Price /Case (₹)
E11530	Swirl Refrigerated Pro High Speed Micro Centrifuge	1	480000

Spare Accessories

Code	Product	No. per Case	Price /Case (₹)
E11521	24 Place Rotor for 0.2, 0.5, 1.5 & 2.0 ml	1	23500
E11522	18 Place Rotor for 5.0 ml	1	23500
E11523	36 Place Rotor for 0.2 & 0.5 ml	1	23500
E11524	32 (8 x 4) Place Rotor for 0.2 ml PCR	1	57000
E11525	Rotor Adapter for 2.0 ml - 0.2 ml used with E11521	24	5300
E11526	Rotor Adapter for 2.0 ml - 0.5 ml used with E11521	24	5300
E11527	Rotor Adapter for 0.5 ml - 0.2 ml used with E11523	36	7800

Swirl Clinical Centrifuge

- Swirl Clinical Centrifuge is used for separation of serum, plasma, urea, urine, blood samples and other routine application in hospital, research. They are also used in environmental analyses for clarification of water and soil sample and in schools as a teaching aid.
- Swirl Clinical Centrifuge has a large ergonomic design with easy to read display and sound alert.
- Automatic lid opening when run is complete prevents sample warming and allow easy access of samples.
- Both RPM and G-force can be displayed.
- Digital LCD display can show real time parameters and have symbol showing experimental process.
- Swirl Clinical is used for quick spins by pressing and holding the pulse key.
- Swirl Clinical has precise control, high accuracy of speed and has gentle breaking at low speeds with efficient separation.
- Swirl Clinical conforms to international safety standards and regulations. It has also passed the explosion proof test and CE, TUV and FCC marked.
- Bio-safe rotor and anti-sample overflow prevents sample does not leak in centrifugal process causing microbial contamination.
- Swirl Clinical adapts a Brushless DC Motor.

Specification

Voltage	Single-phase, AC 220 – 240 V
Frequency	50 Hz
Current	3A
Max Speed	300-4500rpm with increment of 100 rpm
Max. RCF	2490xg with Increment of 100xg
Speed Accuracy	±20 rpm
Rotor Capacity	(i) 5 ml/7 ml/ 10mL x 12 places (ii) 15mL x 8 places
Run Time	30sec-99min-HOLD (Continuous operation)
Driving Motor	Brushless DC motor
Safety Devices	(i) Dual door interlock (ii) Over-speed detection (iii) Automatic internal diagnosis
Noise level	≤56 dB
Additional Features	(i) Speed/RCF switch (ii) Short-time run function (iii) Sound-alert function
Acceleration / Breaking time	20 sec for both Acceleration and Breaking
Dimensions	255 x 245 x 140 mm
Weight	6 kg
Permissible ambient temperature	+ 4 to + 45° C
Permissible relative humidity	80%



Code	Product	No. per Case	Price /Case (₹)
E11540	Swirl Clinical Clinical Centrifuge	1	60000

Spare Accessories

Code	Product	No. per Case	Price /Case (₹)
E11541	8 Place Rotor for 15 ml & 12 Place Rotor for 5, 7 & 10 ml	1	14000
E11542	Rotor Adapter for 10 ml used with E11541	12	2500



CRYO WARE



19 Freezing Tubes Sterile, PP

- Abdos freezing tube are manufactured in state of art precision-moulded facility using high purity virgin polypropylene.
- Manufactured to be used at temperature between -80° C to +121° C.
- Large white frosted portion for easy writing.
- These freezing tube are DNase, RNase and Pyrogen free.
- Graduation in silk-screen printing makes identification easy.
- Build in plug in the cap makes it leak proof.
- Radiation sterilized.



Code	Capacity (ml)	Outer Diameter (mm)	Height (mm)	No. per Case	Price / Case (₹)	Price /20 Case (₹)
P60102	1.8 Sterile Skirted Foot	11.36	45.7	1000	4732	88962
P60103	4.5 Sterile Skirted Foot	11.36	86.5	500	3744	70388

*Sterile Tubes has been validated according to EN ISO 11137 - 2; 2012 for SAL 10⁻⁶

20 Freezing Tube Coders, HDPE

- These coders fit onto the top of 'Abdos' Freezing Tube closures.
- Suitable for P60102, P60103 and P60118.
- These provide quick visual identification of specific vials to simplify inventory maintenance.
- Available in wide range of colors.



Code	Colour of Cap	No. per Case	Price/case (₹)
P60104 W	White	100	120
P60104 B	Blue	100	120
P60104 R	Red	100	120
P60104 Y	Yellow	100	120
P60104 G	Green	100	120



21 Cryo Vial External Threaded Sterile, PP

- Abdos Cryo Vials are manufactured in state of art precision-moulded facility using high purity virgin polypropylene.
- Abdos Cryo Vial is designed for long term cryogenic storage of biological sample, all type of cells and any enzymes or reagents.
- Its leak proof cap design and strong wall thickness makes it an ideal product for transporting samples and specimens.
- These cryo vial are designed for mechanical freezing and its screw cap reduces risk of contamination due to handling.
- Manufactured to be used at temperature between -196° C to +121° C.
- Large white frosted portion for easy writing.
- These Cryo Vials are DNase, RNase and Pyrogen free.
- CE Marked.
- 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.
- Radiation sterilized.
- Available in self-standing reclosable zipper bags.
- Amber Cryo Vial can be quoted and supplied on request.



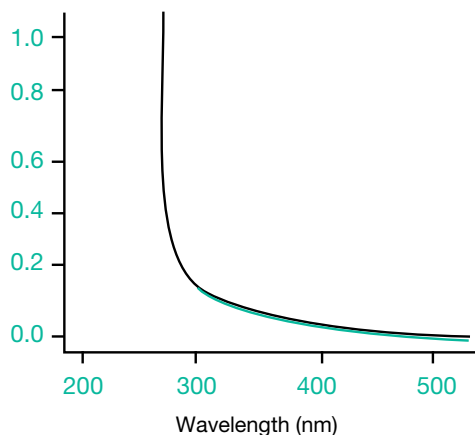
Abdos Cryo Vial being taken out from a liquid Nitrogen cannister

Code	Capacity (ml)	Outer Diameter (mm)	Height (mm)	No. per Case	Price / Case (₹)	Price / 20 Case (₹)
P60115	1.0 Sterile Star Foot	12.00	41.00	1000	5600	105280
P60116	1.8 Sterile Star Foot	12.00	48.5	1000	6200	116560
P60117	1.8 Sterile Round Bottom	12.00	47.5	1000	6200	116560
P60118	4.5 Sterile Skirted Foot	11.36	86.5	500	4400	82720

* Pls note compatible coders for P60118 Cryo Vial 4.5 ml Skirted Foot is P60104. Sterile Tubes has been validated according to EN ISO 11137 - 2; 2012 for SAL 10⁻⁶

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

Leaching Performance Report with DMSO



The graph demonstrates no absorbants found to the threshold limits confirming no traceable leaching observed with DMSO.

22 Cryo Vial Internal Threaded Sterile with Silicone Seal, PP

- Abdos Cryo Vials are Manufactured in state of art precision-moulded facility using high purity virgin polypropylene.
- Abdos Cryo Vial is designed for long term cryogenic storage of biological sample, all type of cells and any enzymes orreagents.
- Its leak proof cap design with silicone seal and strong wall thickness makes it an ideal product for transporting samples and specimens.
- These cryo vial are designed for vapour phase liquid nitrogen freezing and also incorporate a silicone seal to enhance cap sealing.
- Manufactured to be used at temperature between -196° C to +121° C.
- Large white frosted portion for easy writing.
- These Cryo Vials are DNase, RNase and Pyrogen free.
- CE Marked.
- 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.
- Radiation sterilized.
- Available in self-standing reclosable zipper bags.



P60108



P60109



P60110



P60112



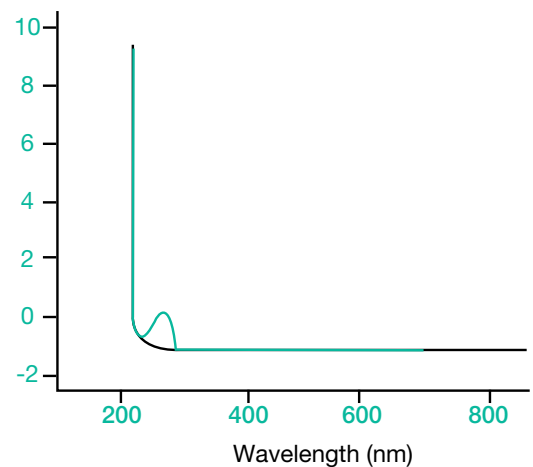
P60113

Code	Capacity (ml)	Outer Diameter (mm)	Height (mm)	No. Per Case	Price/Case (₹)	Price /20 Case (₹)
P60108	1.0 Sterile Star Foot	12.3	41.2	1000	7500	141000
P60109	1.8 Sterile Star Foot	12.3	47.5	1000	8000	150400
P60110	1.8 Round Bottom	12.3	46.2	1000	8000	150400
P60112	4.5 Sterile Star Foot	12.3	90.3	500	5500	103400
P60113	4.5 Sterile Round Bottom	12.3	89	500	5500	103400

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

Sterile Tubes has been validated according to EN ISO 11137-2; 2007 for SAL 10⁻⁶

Leaching Performance Report with DMSO



The graph demonstrates no absorbants found to the threshold limits confirming no traceable leaching observed with DMSO.



23

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 wide range of colors.

Code	Colour	No. Per Case	Price /Case (₹)
P60114 W	White	100	120
P60114 B	Blue	100	120
P60114 R	Red	100	120
P60114 Y	Yellow	100	120
P60114 G	Green	100	120



24

Storage Vial, PP

- Manufactured in state of the art moulding facility using high purity virgin polypropylene.
- Used for storage of PCR reagents, enzymes and other diagnostics and biochemical reagents or sample.
- 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

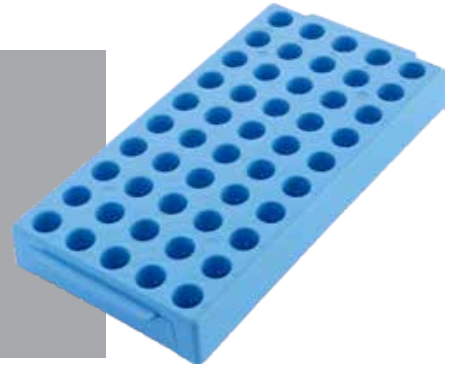
Code	Capacity (ml)	Outer Diameter (mm)	Height (mm)	No. Per Case	Price / Case (₹)	Price / 20 Case (₹)
P60119	1.0	12	41	1000	2450	46060
P60106	2.0	11.8	47.2	1000	2700	50760
P60107	5.0	11.8	88	1000	3000	56400

Storage Vial, Amber

Code	Capacity(ml)	Outer Diameter(mm)	Height (mm)	No. Per Case	Price/ Case (₹)
P60119A	1.0 Amber	12	41	1000	3280
P60119A1	1.0 Transparent Amber	12	41	1000	3280
P60106A	2.0 Amber	11.36	45.7	1000	3575
P60106A1	2.0 Transparent Amber	11.36	45.7	1000	3575
P60107A	5.0 Amber	11.36	86.5	1000	7800
P60107A1	5.0 Transparent Amber	11.36	86.5	1000	7800

25 Single Hand Cryo Holder Rack, PP

- Designed for use with Cryogenic Vial, Freezer Tubes, Storage Vial and Micro Tubes.
- It has unique innovative locking system allowing 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.
- Can be autoclaved.



Code	Tube Capacity (ml)	Places	Colour	L x W x H (mm)	No. per Case	Price / Case (₹)
P20616	1 - 2	40 (10 x 4 Array)	White, Yellow, Blue	201 x 105 x 22	4	1440

Add the following codes for the colour of your choice

Colour	Code
White	W
Yellow	Y
Blue	B

26 Cryo Box, PC

- Manufactured of strong polycarbonate and designed to be used at temperature between -196° C to +121° C.
- Can be used in the gas phase of liquid nitrogen with appropriate safety procedure in place.
- Transparent lids permit viewing of contents.
- Theses boxes create small, space - efficient storage system within a large mechanical freezer.
- Lids have numbered grid for sample identification. Surface of the lid has 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.
- Cryo box are available in White, Yellow, Blue colours.
- Can be autoclaved.



Code	Tube Capacity(ml)	Places	L xW x H (mm)	No. per Case	Price / Case (₹)
P20601	1 - 2	25 (5 x 5 Array)	75 x 75 x 54	8	1066
P20601 Assorted	1 - 2	25 (5 x 5 Array)	75 x 75 x 54	8	1066
P20602	1 - 2	81 (9 x 9 Array)	133 x 132 x 54	4	1304
P20602 Assorted	1 - 2	81 (9 x 9 Array)	133 x 132 x 54	4	1304
P20603	5	81 (9 x 9 Array)	133 x 132 x 97	4	1871
P20603 Assorted	5	81 (9 x 9 Array)	133 x 132 x 97	4	1871

Add the following codes for the colour of your choice

Colour	Code
White	W
Yellow	Y
Blue	B



27 Cryo Box, System - 100, PC

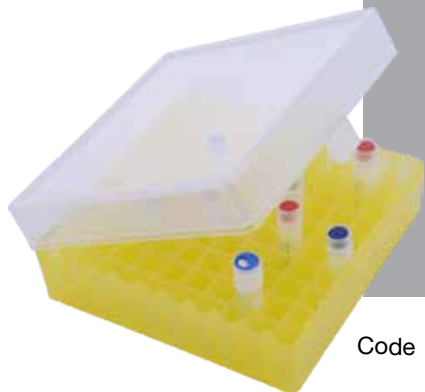
- Manufactured of strong polycarbonate and designed to be used at temperature between -196° C to +121° C.
- Can be used in the gas phase of liquid nitrogen with appropriate safety procedure in place.
- These boxes have 10 x 10 array (100 places) that can optimize the storage volume of end user.
- These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



Code	Tube Capacity (ml)	Places	L x W x H (mm)	No. per Case	Price / Case (₹)
P20615	1-2 (Freezer Compatible)	100 (10x10 Array)	133 x 133 x 54	4	1485
P20611	1 - 2	100 (10x10 Array)	140 x 140 x 54	4	1485

Add the following codes for the colour of your choice	Colour	Code
	White	W
	Yellow	Y
	Blue	B

28 Cryo Cube Box / Storage Cube Box, PP



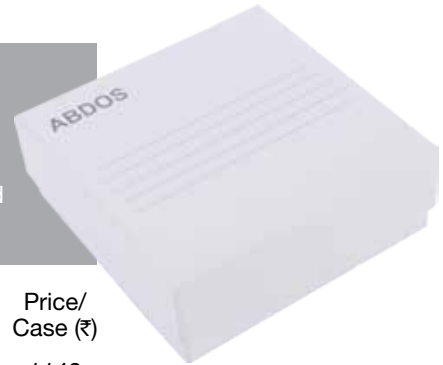
- Manufactured in state of the art moulding facility using high purity polypropylene.
- These boxes are stackable, versatile and designed for sample storage upto -90° C.
- These boxes help you to meet storage requirements of 1.5 - 2.0 ml microtubes and 1.0-2.0 ml cryogenic vials.
- The dimension of P20614 Cryo Cube Box is compatible with vertical, horizontal and drawer style freezer racks.
- These boxes have hinged lid connected on 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.
- Can be autoclaved.

Code	Tube Capacity (ml)	Places	L x W x H (mm)	No. per Case	Price/ Case (₹)
P20612	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	50 (10 x 5 Array)	142 x 85 x 59	8	1123
P20614	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	81 (9 x 9 Array)	130 x 130 x 55	4	1067
P20607	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	100 (10 x 10 Array)	140 x 140 x 55	4	1067

Add the following codes for the colour of your choice	Colour	Code
	Green	G
	Yellow	Y
	Blue	B

29 Freezing Cardboard Cryo Boxes, Cardboard

- Designed for storage and preservation of frozen samples.
- Can withstand ultra low temperature in deep freezers.
- 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 (ml)	Places	L x W x H (mm)	No. per Case	Price/Case (₹)
P20606	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	81 (9 x 9 Array)	132 x 132 x 50	8	1140
P20613	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	100 (10 x 10 Array)	132 x 132 x 50	8	1140



30 Chest / Vertical Freezer Racks, Stainless Steel

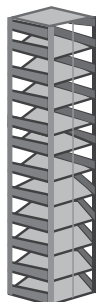
- These stainless steel racks optimize space and organize biological sample.
- These racks are compatible and adaptable to any storage format (boxes, racks) and all type of cryogenic storage equipment (refrigerators, freezers, deep freezers, nitrogen tanks).
- These racks have alignment rods to secure boxes in position.
- Stainless steel construction make is free of rust, easy to clean and looks good aesthetically.
- Available in 6 different sizes of shelves in vertical array for the convenience of end user according to their need.

CODE	Box Type	No. of Shelves	Dimensions (mm) (Dx W x H)	No. per Case	Price / Case (₹)
U21601	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	4	137.5 x 143 x 225.3	1	2125
U21602	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	6	137.5 x 143 x 337.7	1	3100
U21603	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	7	137.5 x 143 x 393.9	1	3600
U21604	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	10	137.5 x 143 x 562.5	1	5000
U21605	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	11	137.5 x 143 x 618.7	1	5300
U21606	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	13	137.5 x 143 x 731.1	1	6100

Compatible | P20601, P20602, P20615, Box & Rack | P20614, P20606 & P20613



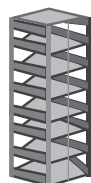
U21606



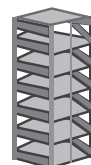
U21605



U21604



U21603



U21602



U21601

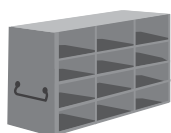


31 Horizontal/Upright Freezer Racks, Stainless Steel

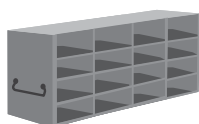
- These stainless steel racks optimize space and organize biological sample.
- Stainless steel construction make is free of rust, easy to clean and looks good aesthetically.
- Available in 7 different sizes of box array in horizontal position for the convenience of end user according to their need.
- These racks are compatible and adaptable to any storage format (boxes, racks) and all type of cryogenic storage equipment (refrigerators, freezers, deep freezers, nitrogen tanks).

CODE	Box Type	Box Array (L x H)	No. of Shelves	Dimensions (mm) (D x W x H)	No. per Case	Price / Case (₹)
U21607	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	3 x 4	12	140.1 x 414.9 x 228.5	1	6400
U21608	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	4 x 4	16	140.1 x 552.7 x 228.6	1	8650
U21609	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	5 x 4	20	140.1 x 690.5 x 228.7	1	11000
U21610	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	3 x 5	15	140.1 x 414.9 x 285.5	1	8000
U21611	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	4 x 5	20	140.1 x 552.7 x 285.5	1	12000
U21612	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	5 x 5	25	140.1 x 690.5 x 285.6	1	11500
U21613	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	4 x 6	24	140.1 x 552.7 x 342.5	1	11500

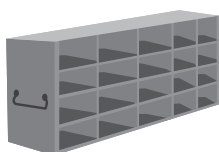
Compatible | P20601, P20602, P20615,
Box & Rack | P20614, P20606 & P20613



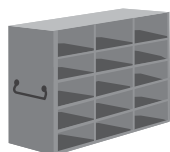
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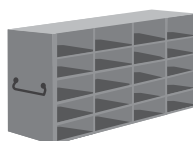
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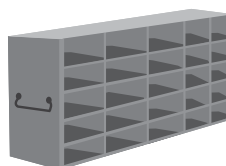
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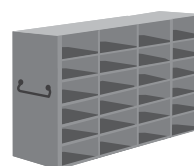
U21610



U21611



U21612



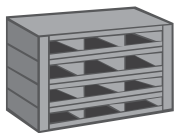
U21613

32 Drawer Style Freezer Racks, Stainless Steel

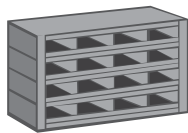
- These stainless steel racks optimize space and organize biological sample.
- These racks are compatible and adaptable to any storage format (boxes, racks) and all type of cryogenic storage equipment (refrigerators, freezers, deep freezers, nitrogen tanks).
- Stainless steel construction make is free of rust, easy to clean and looks good aesthetically.
- Available in 6 different sizes of box array. Opening and closing of the rack is designed through drawer for the convenience of end user.

CODE	Box Type	Box Array (L x H)	No. of Shelves	Dimensions (mm) (Dx W x H)	No. per Case	Price / Case (₹)
U21614	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	3 x 4	12	140 x 415.5 x 236	1	7800
U21615	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	4 x 4	16	140 x 553.5 x 296	1	10200
U21616	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	5 x 4	20	140 x 691.5 x 236	1	11500
U21617	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	4 x 5	20	140 x 553.5 x 295	1	11500
U21618	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	5 x 5	25	140 x 691.5 x 295	1	12000
U21619	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	4 x 6	24	140 x 553.5 x 354	1	13000

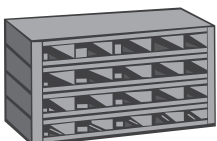
Compatible | P20601, P20602, P20615,
Box & Rack | P20614, P20606 & P20613



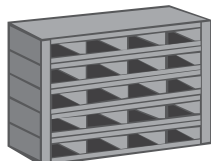
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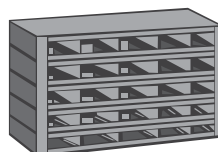
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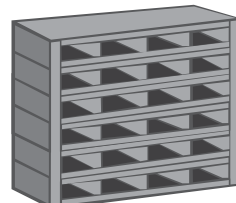
U21616



U21617



U21618



U21619



33 Cryo Gloves

- These cryogenic gloves protect your hands and arms when working in hazardous, ultra-cold environments.
- These gloves have innovative design that offers superior thermal protection allowing for maximum level of flexibility and dexterity.
- These cryo gloves are made from state-of-the-art fabrics and use a flexible, multi-layered insulated construction that provides maximum thermal protection to perform tasks effectively and safely.
- High performance, thermal inner lining wicks moisture away from hands, maintaining comfort over extended periods.



Code	Size	No. per case	Price /Case (₹)
U20307	Wrist S	1 Pair	9774
U20308	Wrist M	1 Pair	9774
U20309	Wrist L	1 Pair	9774
U20310	Wrist XL	1 Pair	9774
U20311	Mid Arm S	1 Pair	10300
U20312	Mid Arm M	1 Pair	10300
U20313	Mid Arm L	1 Pair	10300
U20314	Mid Arm XL	1 Pair	10300
U20315	Elbow S	1 Pair	13069
U20316	Elbow M	1 Pair	13069
U20317	Elbow L	1 Pair	13069
U20318	Elbow XL	1 Pair	13069

Application	Environment
Ultra low blast freezers	Clinical laboratory
Cold rooms	Bio medical
Dry ice handling	Blood banks
	Pharmaceutical
	Frozen food processing

34 Cryo Apron



- These Cryo apron provide high-level of thermal protection to the torso and upper legs in harsh cryogenic atmospheres.
- Multi-layered construction allows for maximum level of thermal protection and waterproof nylon outer shell protects you from cryogenic splashes and keeps you safe and comfortable.
- These cryogenic aprons have quick-release buckles at the neck and waist for added safety and function.

Application	Environment
Cold room / walking freezer	Cryo preservation facilities
Blast freezers	Cryogenic liquid producers
Delivery and filling of cryogenic liquid	Clinical lab
	Bio medical
	Blood banks
	Frozen food processing

Code	Size (cm)	No. per Case	Price /Case (₹)
U20331	36 inch or 91.4	1	12870
U20332	42 inch or 106.7	1	13990
U20333	48 inch or 121.9	1	15450
U20334	54 inch or 137.2	1	16605

35 Water Proof Cryo Gloves

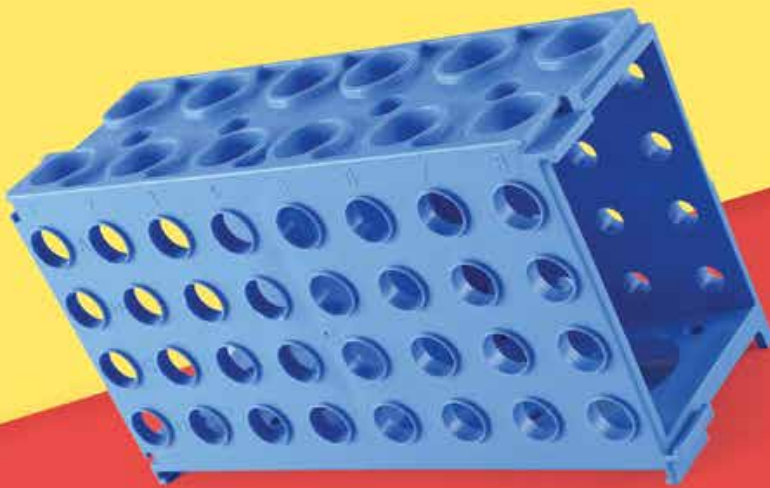
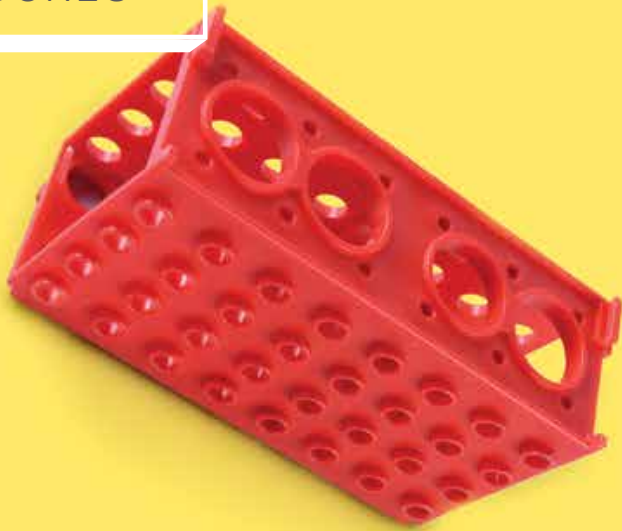
- These cryogenic gloves protect your hands and arms when working in hazardous, ultra - cold environments.
- These gloves are designed to provide high level of thermal protection where the exposure to cryogenic fluids might exist.
- These cryo gloves are made from state-of-the art material designed to keep you dry and wick moisture away from hands so that work with comfort for extended period of time.
- These gloves are multi-layered and allow for maximum level of thermal protection, flexibility and dexterity essential feature when function is important and safety is critical.

Application	Environment
LN2 atmosphere and environment	Fertility clinic
Refrigerated liquid baths	Bio medical
Cryo freezers	Genetic and bio technology
Cryogenic grinding	Pharmaceutical

Code	Size	No. per Case	Price /Case (₹)
U20319	Wrist S	1 Pair	12880
U20320	Wrist M	1 Pair	12880
U20321	Wrist L	1 Pair	12880
U20322	Wrist XL	1 Pair	12880
U20323	Mid Arm S	1 Pair	13905
U20324	Mid Arm M	1 Pair	13905
U20325	Mid Arm L	1 Pair	13905
U20326	Mid Arm XL	1 Pair	13905
U20327	Elbow S	1 Pair	17200
U20328	Elbow M	1 Pair	17200
U20329	Elbow L	1 Pair	17200
U20330	Elbow XL	1 Pair	17200



RACKS &
BOXES



36 Rotator Workstation, PP

- Abdos rotator workstation is a unique ultimate workstation helping you organize your laboratory work.
- Abdos rotator workstation has unique rotate and lock design that helps add or subtract racks according to end users needs.
- These racks can withstand temperature of -80 °C to +121°C
- Can be autoclaved.



Product compatibility chart for Rotator Workstation:

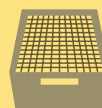
Product	No. per unit
50 ml Centrifuge Tubes	2 per unit
15 ml Centrifuge Tubes	8 per unit
1.5 ml or 2.0 ml Micro Centrifuge Tubes	9 per unit
0.5 ml Micro Centrifuge Tubes	6 per unit
PCR plates (unskirted or semi skirted 96 well)	1 per 2 units locked together
PCR 8-tube strips	6 per unit
PCR 12-tube strips	8 per 2 unit
PCR 0.2 ml tubes	48 per unit



Code	L x W x H (mm)	No. per Case	Price /Case (₹)
P20208	108 x 68 x 108	4 (assorted colours)	1784

Assorted colours consists of Blue, Green, Yellow & Red.





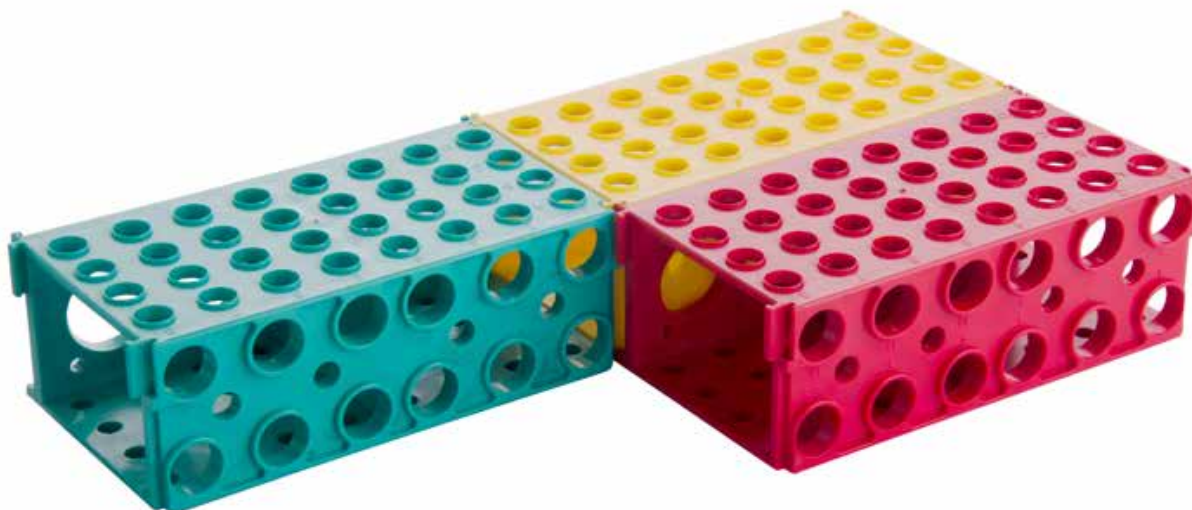
37

Multi Combination Racks, PP

- Abdos multi combination racks is a unique combination racks for various tubes and vials.
- Abdos multi combination racks with a unique design allows to customize specific requirements according to end users needs.
- These racks can withstand temperature of -80°C to $+121^{\circ}\text{C}$.
- Can be autoclaved.

Product compatibility chart for Multi Combination Racks:

Product	No. per unit
50 ml Centrifuge Tubes	4 per unit
15 ml Centrifuge Tubes	12 per unit
1.5 ml or 2.0 ml Micro Centrifuge Tubes	32 per unit
0.5 ml Micro Centrifuge Tubes	32 per unit
Ria Vial 12 x 75 mm	32 per unit



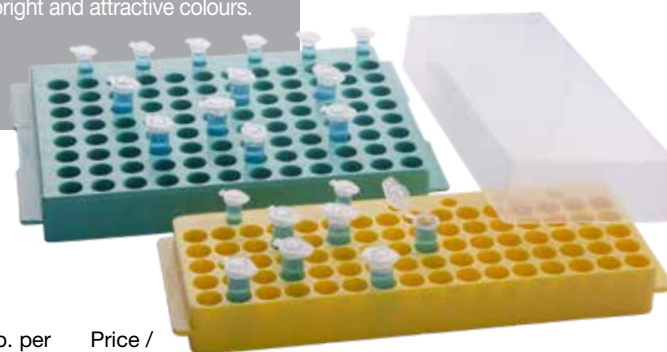
Code	L x W x H (mm)	No. per Case	Price /Case (₹)
P20209	175 x 90 x 65	4 (assorted colours)	1256

Assorted colours consists of Blue, Green, Yellow & Red.

38

Reversible Rack with Cover, PP

- Manufactured in state of the art moulding facility using high purity virgin polypropylene.
- Holds 1.5/2.0 ml micro centrifuge tubes on one side with smaller positions for the 0.5 ml tubes on other side.
- 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.
- Molded indexing for easy reference of tubes and vials.
- Available in bright and attractive colours.



Code	Tube Capacity (ml)	Places	L x W x H (mm)	No. per case	Price / Case (₹)
P20206	1.5, 2.0 & 0.5	96 place (12 x 8 Array)	220 x 150 x 50	6	1500
P20206 Assorted	1.5, 2.0 & 0.5	96 place (12 x 8 Array)	220 x 150 x 50	6 (2 pcs of each colour)	1500
P20207	1.5, 2.0 & 0.5	80 (16 x 5 Array)	240 x 85 x 50	6	1000
P20207 Assorted	1.5, 2.0 & 0.5	80 (16 x 5 Array)	240 x 85 x 50	6 (2 pcs of each colour)	1000

Add the following codes for the colour of your choice	Colour	Code
	Green	G
	Yellow	Y
Blue	B	

39

Puzzle Rack, PP

- Abdos puzzle rack consist of two sides with different hole diameter to hold various tubes and vials.
- These multi colour rack are fun to work with have good functional value and slide to connect.
- Molded in indexing for easy retrieval of tubes.
- Racks can be used individually for small sample or can be connected in square or row configuration.
- These racks can withstand temperature of - 80°C to +121°C.
- Can be autoclaved.

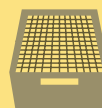


Code	Colour	L xW x H (mm)	No. per Case	Price / Case (₹)
P20211	4 (assorted colour)	151 x 135 x 66	4	3035

Assorted colours consists of Blue, Green, Yellow & Orange.

Product compatibility chart for Puzzle Racks:

Product	No. per unit
50 ml Centrifuge Tubes	4 per unit
15 ml Centrifuge Tubes	9 per unit
1.5 ml or 2.0 ml Micro Centrifuge Tubes	8 per unit - top side 4 per unit - opposite side



40

Freezer Storage Racks, PC

- These racks have consistent thermal protection to maintain temperature at low temperature.
- These racks are suitable for storage for PCR reagents, cells, enzymes or other temperature sensitive reagents and protecting critical sample from temperature fluctuations.
- Molded indexing makes identification faster and easier.
- These racks are available in two temperature range:
 - (a) -20°C unit will maintain a temperature between -10°C and -20°C for upto 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 Freezer Storage Racks

Code	Capacity (ml)	Places	L x W x H (mm)	No. per case	Price/Case (₹)
P11104	0.5, 1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	32 (8 x 4 Array)	240 x 120 x 120	1	4400

0°C Freezer Storage Racks

Code	Capacity (ml)	Places	L x W x H (mm)	No. per case	Price/Case (₹)
P11105	0.5, 1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	32 (8 x 4 Array)	240 x 120 x 120	1	4400

* Image of this product is subject to changes

41 Freezer Colour Change Racks, PP

- These racks maintain temperature of less than 4°C for almost 3.5 hours (with lid on rack) at room temperature.
- The plastic changes colour to enable the user to see how cold or hot the sample is.
- These racks have a dramatic change in colour at 7°C.
- Can be autoclaved.

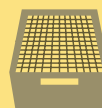


MCT Freezer Change Racks

Code	Colour at Cold Temperature	Colour at Warm Temperature	Capacity (ml)	Places	L x W x H (mm)	No. per Case	Price / Case (₹)
P11106	Green	Yellow	0.5, 1.5 - 2 Micro Tube	24 (6 x 4 Array)	150 x 100 x 75	1	3854

PCR Freezer Change Racks

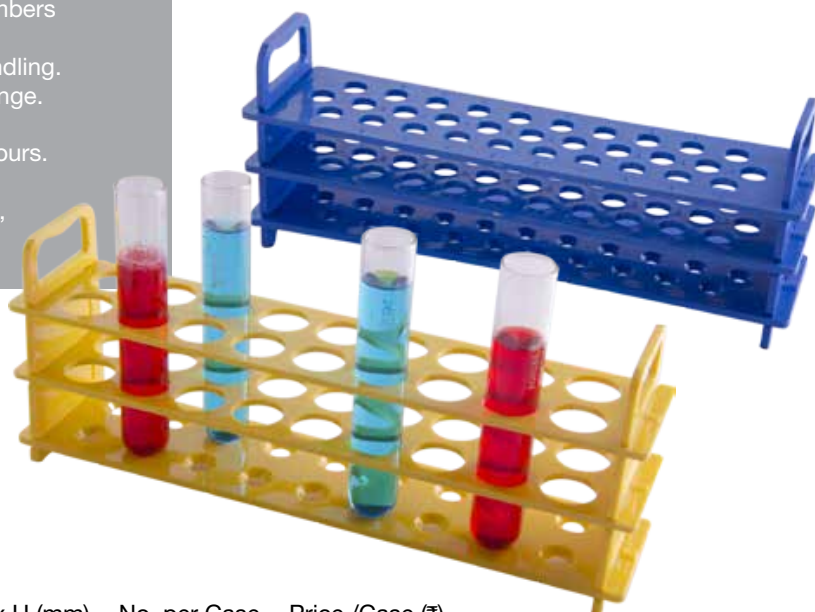
Code	Colour at Cold Temperature	Colour at Warm Temperature	Capacity	Places	L x W x H (mm)	No. per Case	Price / Case (₹)
P11107	Green	Yellow	PCR tubes, 96 well plates & strip tubes	96 (12 x 8 Array)	150 x 100 x 75	1	4042



42

Test Tube Rack, RPP & PC

- Holes are keyed with molded-in-numbers and letters for easy identification.
- Ergonomic design facilitates easy handling.
- Can be used in wide temperature range.
- Superior chemical resistance.
- Wide range available in different colours.
- Can be autoclaved.
- Test Tube Rack is available in White, Yellow & Blue colour.



Test Tube Rack, RPP

Code	Tubes (mm)	Places	L x W x H (mm)	No. per Case	Price /Case (₹)
P20701	13	31	275 x 65 x 110	4	727
P20702	16	31	275 x 65 x 110	4	727
P20703	20	20	324 x 73 x 127	4	834
P20704	25	18	324 x 73 x 127	4	834
P20705	32	12	280 x 84 x 127	4	973

Test Tube Rack, PC

Code	Tubes (mm)	Places	L x W x H (mm)	No. per Case	Price /Case (₹)
P20706	13	31	275 x 65 x 110	4	1399
P20707	13	62	275 x 133 x 112	2	1399
P20708	16	31	275 x 65 x 110	4	1399
P20709	16	62	275 x 133 x 112	2	1399
P20710	20	20	324 x 73 x 127	4	1559
P20711	20	40	324 x 143 x 127	2	1559
P20712	25	18	324 x 73 x 127	4	1559
P20713	25	36	324 x 143 x 127	2	1559
P20714	32	12	280 x 84 x 127	4	1779
P20715	32	24	280 x 170 x 128	2	1779

Add the following codes for the colour of your choice

Colour	Code
White	W
Yellow	Y
Blue	B

43 Double /Jumbo Test Tube Rack, RPP

- These innovative double jumbo test tube rack 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 keyed with molded-in- numbers and letters for easy identification.
- Due to its sheer size the rack eliminates the risk of using multiple racks. Use these racks for storing various grouping samples.
- These racks are available in White & Blue colours.
- Can be autoclaved.

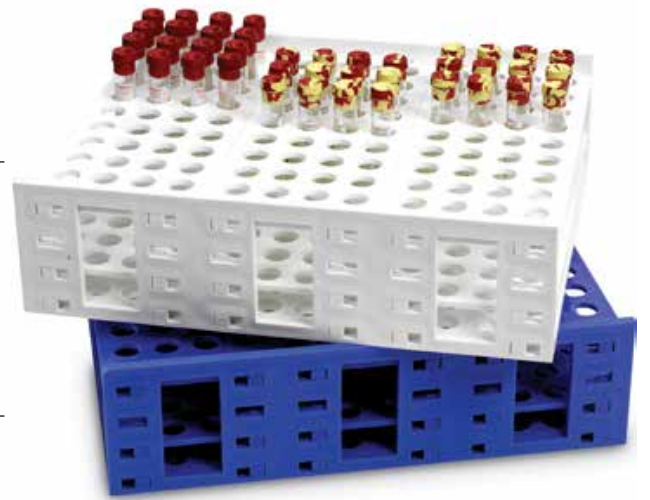
Double Jumbo Test Tube Rack

Code	Tubes (mm)	Places	L x W x H (mm)	No. per Case	Price / Case (₹)
P20441	10-13	432	673 x 230 x 80	1	6000
P20442	13-16	240	521 x 260 x 89	1	6000

Jumbo Test Tube Rack

Code	Tubes (mm)	Places	L x W x H (mm)	No. per Case	Price / Case (₹)
P20443	10-13	216	337 x 267 x 91	1	3000
P20444	13-16	120	337 x 267 x 91	1	3000

Add the following codes for the colour of your choice	Colour	Code
	White	W
	Blue	B

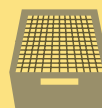


44 Polygrid Test Tube Racks, PP



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

Code	Tube Diameter (mm)	Places	L x W x H (mm)	No. per Case	Price/ Case (₹)
P20716	13	90	248 x 116 x 64	4	920
P20717	17	60	245 x 118 x 70	4	920
P20718	21	40	248 x 116 x 70	4	920



45

Polywire Racks, Delrin

- Polywire Racks are durable, molded in a single continuous piece so no assembly required and there are no detachable pieces.
- Manufactured from Delrin® which is very tough, highly resistant to acids, bases solvents and heat.
- Superior to manufacturing from Reinforced Nylon.
- Molded in Indexing for easy identification.
- These racks have flat labelling area for easier identification.
- Stable in water bath.
- Can be used in wide temperature range from – 40° C to +140° C.
- These racks are available in White, Red & Blue colours.
- Can be autoclaved.

Polywire Rack Full, Delrin

Code	Tubes (mm)	Places	L x W x H (mm)	No. per Case	Price / Case (₹)
P20725	13	72	104 x 202 x 59	4	3400
P20726	16	60	127 x 250 x 70	4	4500
P20727	20 (15ml Tube)	40	100 x 252 x 83	4	4500
P20728	25	40	120 x 300 x 92	4	6000
P20729	30 (50ml Tube)	24	110 x 282 x 85	4	6000



Polywire Rack Half, Delrin

Code	Tubes (mm)	Places	L x W x H (mm)	No. per Case	Price / Case (₹)
P20720	13	36	104 x 104 x 59	4	2500
P20721	16	36	127 x 127 x 70	4	3500
P20722	20 (15ml Tube)	20	100 x 127 x 83	4	3500
P20723	25	16	120 x 122 x 92	4	3500
P20724	30 (50ml Tube)	9	110 x 110 x 85	4	3500

* Delrin is a registered trademark of E.I. du Pont de Numours and Company

Colour	Code
White	W
Red	R
Blue	B

Add the following codes for the colour of your choice



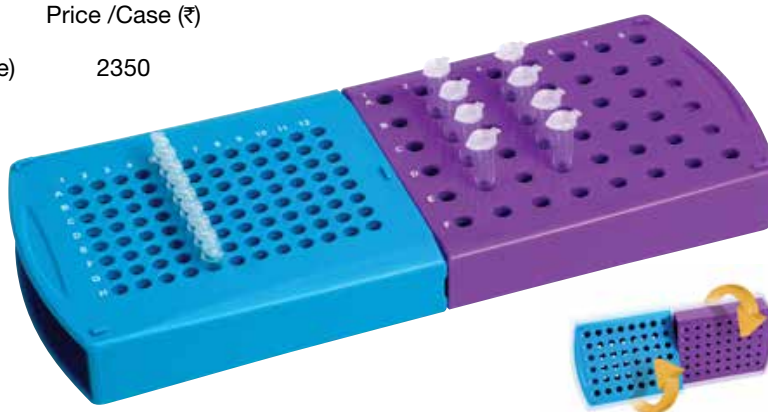
46 Twisty Tube Rack, PP

- These racks make dilution and concentration study easier as it can transfer samples between 0.2ml PCR tubes to 0.5, 1.5 and 2.0 ml tubes.
- Can be rotated and customize according to end user application.
- These racks have tapered wells that securely suspend tubes and makes removal easy.
- Molded in indexing for easy retrieval of tubes.
- These racks can withstand temperature between – 80° C to +121° C.
- Can be autoclaved.
- Blue section holds 48 (0.5 ml) tube and reverse side holds 48 (1.5 ml) tube where as purple section holds 96 (0.2 ml) tube and 48 (1.5 ml) tube on reverse side.

Code	L xW x H (mm)	No. per Case	Price /Case (₹)
P20210	296 x 118 x 34	1kit (Blue + Purple)	2350

Product compatibility chart for the twisty tube racks:

Colour	Product	Places
Blue	0.5 ml	48
	1.5 / 2.0 ml	48
Purple	0.2 ml	96
	1.5 / 2.0 ml	48



47 Weighing Boats, PS



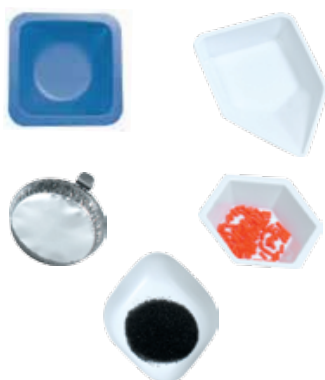
- Abdos weighing boats are flexible with smooth surfaces to provide accurate pour-outs with minimal sample loss.
- Biologically inert and resistant to dilute and weak acids, aqueous solutions, alcohols, and bases.
- All Abdos weighing boats are anti-static and facilitate the weighing of static-affected sample.
- These boats can withstand temperature between 10°C to 70°C.
- Can be used with microwave moisture analyzers.
- 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 innovative unique design for easy dispense of sample without flexing the dish. 12-mil thickness provide good strength, stability and handling.

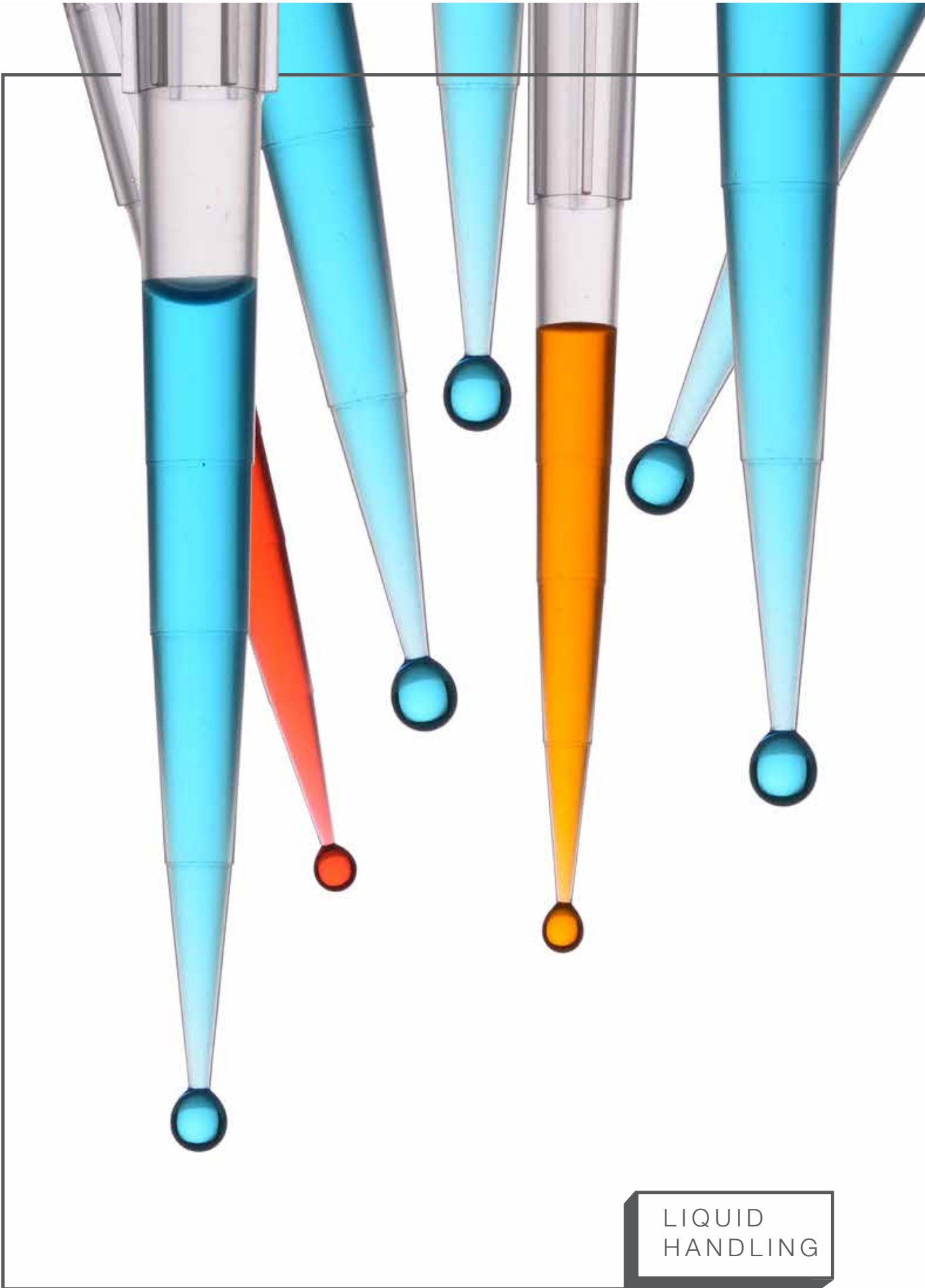
Weighing Boats Standard, PS

Code	Size	Colour	L xW x H (mm)	No. per Case	Price /Case (₹)
P70501	Small	Blue	46 x 46 x 8	250	1200
P70502	Medium	Blue	85 x 85 x 24	250	2000

Weighing Boat with Pour Spout, PS

Code	Size	Colour	L xW x H (mm)	No. per Case	Price /Case (₹)
P70503	Small	White	43 x 58 x 13	250	2000
P70504	Medium	White	83 x 132 x 26	250	3700





LIQUID
HANDLING

48 Fixed Premium Pipette, PP

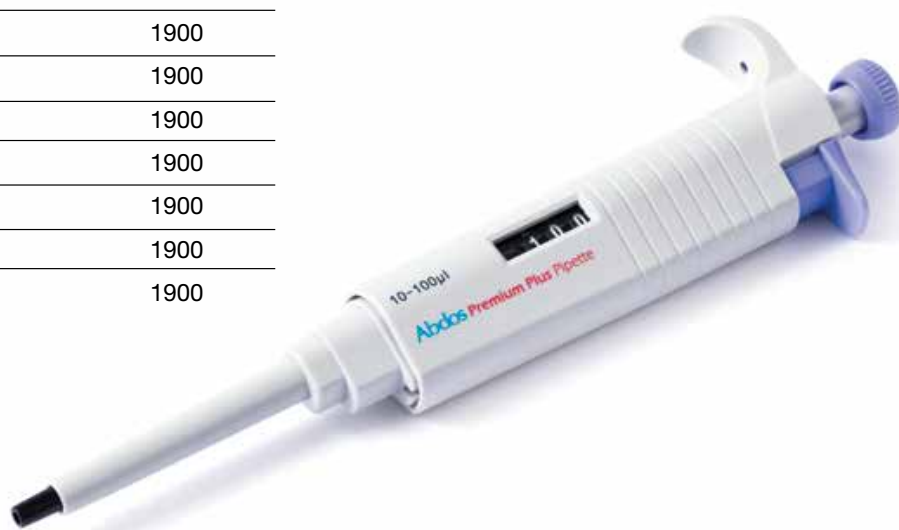
- Abdos Fixed Premium Pipette are lightweight, ergonomic with low force design.
- Abdos Fixed Premium Pipette are easy to calibrate and maintain with tools supplied.
- Abdos Fixed Premium Pipette are very accurate and gives desired results.
- Abdos Fixed Premium Pipette are designed to avoid repetitive strain injuries.
- Each pipette is supplied with individual quality control certificate.
- Each pipette are supplied with operator manual that provides complete information on recalibration and maintenance of the pipette.

Specifications

Code	Capacity (µl)	Test Volume (µl)	Maximum permissible systematic error		Maximum permissible random error	
			Inaccuracy (±)	Inaccuracy (±)	Imprecision (±)	Inaccuracy (±)
E10001	5	5	1.3%	0.065µl	1.2%	0.06µl
E10002	10	10	0.8%	0.08µl	0.8%	0.08µl
E10003	20	20	0.6%	0.12µl	0.5%	0.1µl
E10004	25	25	0.5%	0.125µl	0.3%	0.075µl
E10005	50	50	0.5%	0.25µl	0.3%	0.15µl
E10006	100	100	0.5%	0.50µl	0.3%	0.30µl
E10007	200	200	0.4%	0.80µl	0.2%	0.40µl
E10008	250	250	0.4%	1µl	0.2%	0.50µl
E10009	500	500	0.3%	1.5µl	0.2%	1.0µl
E10010	1000	1000	0.3%	3µl	0.2%	2.0µl

Fixed Volume Pipette

Code	Capacity (µl)	No. per Case	Price /Case (₹)
E10001	5	1	1900
E10002	10	1	1900
E10003	20	1	1900
E10004	25	1	1900
E10005	50	1	1900
E10006	100	1	1900
E10007	200	1	1900
E10008	250	1	1900
E10009	500	1	1900
E10010	1000	1	1900





49 Premium Pipettes, PP

- Abdos Premium Pipettes are lightweight, ergonomic with low force design.
- Volume settings can be clearly read through digital display.
- Abdos Premium Pipettes are easy to calibrate and maintain with the tools supplied.
- Abdos Premium Pipettes are Semi-Autoclavable.
- Abdos Premium Pipettes are designed to avoid repetitive strain injuries.
- Abdos Premium Pipettes are supplied with operator manual that provides complete information on recalibration and maintenance of the pipettes.

Specifications

Code	Capacity (µl)	Increment (µl)	Test Volume (µl)	Maximum permissible systematic error		Maximum permissible random error	
				Inaccuracy (±)	Inaccuracy (±)	Imprecision (±)	Inaccuracy (±)
E11101	0.5-10	0.1	10	1.00%	0.1µl	0.80%	0.08µl
			5	1.50%	0.175µl	1.50%	0.075µl
			1	2.50%	0.025µl	1.50%	0.015µl
E11102	2-20	0.5	20	0.90%	0.18µl	0.40%	0.08µl
			10	1.20%	0.12µl	1.00%	0.10µl
			2	3.00%	0.06	2.00%	0.04µl
E11103	10-100	1	100	0.80%	0.80µl	0.15%	0.15µl
			50	1.00%	0.50µl	0.40%	0.20µl
			10	3.00%	0.30µl	1.50%	0.15µl
E11104	20-200	1	200	0.60%	1.20µl	0.15%	0.30µl
			100	0.80%	0.80µl	0.30%	0.30µl
			20	3.00%	0.60µl	1.00%	0.20µl
E11105	100-1000	5	1000	0.60%	6µl	0.20%	2µl
			500	0.70%	3.50µl	0.25%	1.25µl
			100	2.00%	2µl	0.70%	0.70µl
E11131	1000-5000	50	5000	0.50%	25µl	0.15%	7.5µl
			2500	0.60%	15µl	0.30%	7.5µl
			1000	0.70%	7µl	0.30%	3µl
E11132	2000-10000	100	10000	0.60%	60µl	0.20%	20µl
			5000	1.20%	60µl	0.30%	15µl
			2000	3.00%	60µl	0.60%	12µl

Single Channel Adjustable Premium Pipettes

Code	Capacity (µl)	No. per Case	Price /Case (₹)
E11101	0.5-10	1	4700
E11102	2-20	1	4700
E11103	10-100	1	4700
E11104	20-200	1	4700
E11105	100-1000	1	4700

Large Volume Single Channel Adjustable Premium Pipettes

Code	Capacity (ml)	No. per Case	Price /Case (₹)
E11131	1 - 5	1	4700
E11132	2 - 10	1	4700



50 Premium Plus Pipettes, PP

- Abdos Premium Plus Pipettes are Fully Autoclavable.
- Abdos Premium Plus Pipettes are lightweight, ergonomic with low force design.
- Volume settings can be clearly read through digital display.
- Abdos Premium Plus Pipettes are easy to calibrate and maintain with the tool supplied.
- Abdos Premium Plus Pipettes are designed to avoid repetitive strain injuries.
- Abdos Premium Plus Pipettes are supplied with operator manual that provides complete information on recalibration and maintenance of the pipettes.

Specifications

Code	Capacity (µl)	Increment (µl)	Test Volume (µl)	Maximum permissible systematic error		Maximum permissible random error	
				Inaccuracy (±)	Inaccuracy (±)	Imprecision (±)	Inaccuracy (±)
E11107	0.5-10	0.1	10	1.00%	0.1µl	0.80%	0.08µl
			5	1.50%	0.175µl	1.50%	0.075µl
			1	2.50%	0.025µl	1.50%	0.015µl
E11108	2-20	0.5	20	0.90%	0.18µl	0.40%	0.08µl
			10	1.20%	0.12µl	1.00%	0.10µl
			2	3.00%	0.06	2.00%	0.04µl
E11109	10-100	1	100	0.80%	0.80µl	0.15%	0.15µl
			50	1.00%	0.50µl	0.40%	0.20µl
			10	3.00%	0.30µl	1.50%	0.15µl
E11110	20-200	1	200	0.60%	1.20µl	0.15%	0.30µl
			100	0.80%	0.80µl	0.30%	0.30µl
			20	3.00%	0.60µl	1.00%	0.20µl
E11111	100-1000	5	1000	0.60%	6µl	0.20%	2µl
			500	0.70%	3.50µl	0.25%	1.25µl
			100	2.00%	2µl	0.70%	0.70µl
E11134	1000-5000	50	5000	0.50%	25µl	0.15%	7.5µl
			2500	0.60%	15µl	0.30%	7.5µl
			1000	0.70%	7µl	0.30%	3µl
E11135	2000-10000	100	10000	0.60%	60µl	0.20%	20µl
			5000	1.20%	60µl	0.30%	15µl
			2000	3.00%	60µl	0.60%	12µl

Single Channel Adjustable Premium Plus Pipettes

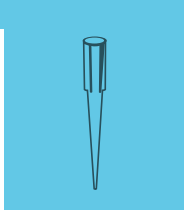
Code	Capacity (µl)	No. per Case	Price /Case (₹)
E11107	0.5-10	1	5400
E11108	2-20	1	5400
E11109	10-100	1	5400
E11110	20-200	1	5400
E11111	100-1000	1	5400

Large Volume Single Channel Adjustable Premium Plus Pipettes

Code	Capacity (ml)	No. per Case	Price /Case (₹)
E11134	1 - 5	1	5400
E11135	2 - 10	1	5400



Premium Plus Multi-Channel Pipette, PP



- Abdos Premium Plus Multi-channel Pipette have a unique ergonomic design for comfortable finger support and convenient tip ejector design allows one-handed operation.
- Abdos Premium Plus Multi-channel Pipette are available for standard 96-well plate.
- The dispensing head of these pipettes rotate for optimum pipetting convenience.
- The special compound material tip cone design allows visual seal verification and have 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 Pipette are easy to calibrate and maintain with the tools supplied.
- These pipettes are Fully-Autoclavable.
- These pipettes are designed to avoid repetitive strain injuries.
- All Abdos pipette are supplied with operator manual that provides complete information on recalibration and maintenance of the pipettes.

Specifications

Code	Capacity (µl)	Increment (µl)	Test Volume (µl)	Maximum permissible systematic error Inaccuracy (±)	Maximum permissible random error Imprecision (±)	Inaccuracy (±)	Inaccuracy (±)
E11136	0.5 - 10	0.1	10 5 1	1.50% 2.50% 4.00%	0.15µl 0.125µl 0.04µl	1.50% 2.50% 4.00%	0.15µl 0.125 0.04
E11137	5 - 50	0.5	50 25 5	1.00% 1.50% 3.00%	0.50µl 0.375µl 0.15µl	0.50% 1.00% 2.00%	0.25 0.25 0.10
E11138	50 - 300	1	300 150 50	0.70% 1.00% 1.50%	2.10µl 1.50µl 0.75µl	0.25% 0.50% 0.80%	0.75 0.75 0.40

8 - Channel Adjustable Premium Plus Pipettes

Code	Capacity (µl)	No. per Case	Price /Case (₹)
E11136	0.5 - 10	1	22000
E11137	5 - 50	1	22000
E11138	50-300	1	22000



Premium Plus Multi-Channel Pipette, PP

- Abdos Premium Plus Multi-channel Pipette are Fully Autoclavable.
- Abdos Premium Plus Multi-channel Pipette have a unique ergonomic design for comfortable finger support and convenient tip ejector design allows one-handed operation.
- Abdos Premium Plus Multi-channel Pipette are available for standard 96-well plate.
- The dispensing head of these pipettes rotate for optimum pipetting convenience.
- The special compound material tip cone design allows visual seal verification and have 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 Pipette are easy to calibrate and maintain with the tools supplied.
- These pipettes are designed to avoid repetitive strain injuries.
- All Abdos pipette are supplied with operator manual that provides complete information on recalibration and maintenance of the pipettes.

Specifications

Code	Capacity (µl)	Increment (µl)	Test Volume (µl)	Maximum permissible systematic error		Maximum permissible random error	
				Inaccuracy (±)	Inaccuracy (±)	Imprecision (±)	Inaccuracy (±)
E11139	0.5 - 10	0.1	10	1.50%	0.15µl	1.50%	0.15µl
			5	2.50%	0.125µl	2.50%	0.125µl
			1	4.00%	0.04µl	4.00%	0.04µl
E11140	5 - 50	0.5	50	1.00%	0.50µl	0.50%	0.25µl
			25	1.50%	0.375µl	1.00%	0.25µl
			5	3.00%	0.15µl	2.00%	0.10µl
E11141	50 - 300	1	300	0.70%	2.10µl	0.25%	0.75µl
			150	1.00%	1.50µl	0.50%	0.75µl
			50	1.50%	0.75µl	0.80%	0.40µl

12 - Channel Adjustable Premium Plus Pipettes

Code	Capacity (µl)	No. per Case	Price /Case (₹)
E11139	0.5 - 10	1	23500
E11140	5 - 50	1	23500
E11141	50 - 300	1	23500





PIPETTE TIPS FEATURES

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

Free from Bacteriostatic & Fungistatic property

Precise graduation mark for error free pipetting

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

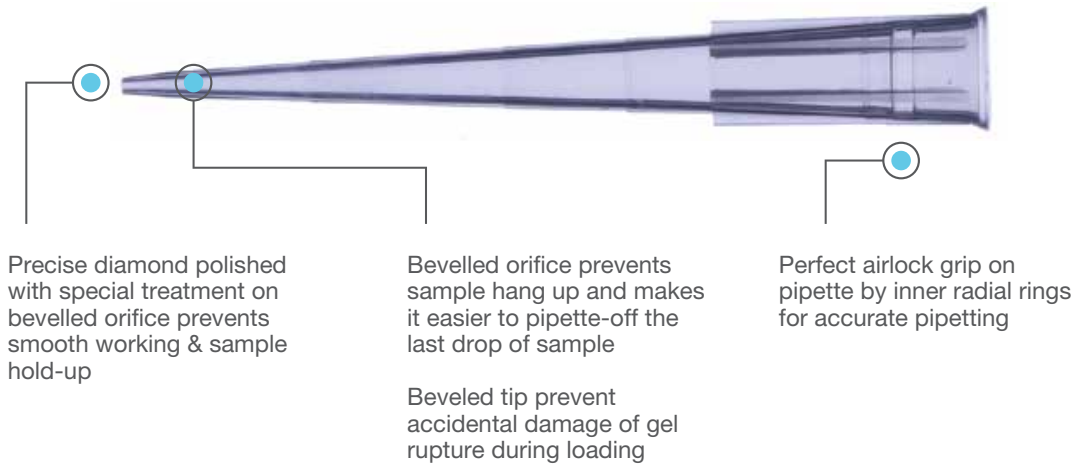


Superior leeching performance in its class assures contamination free results.

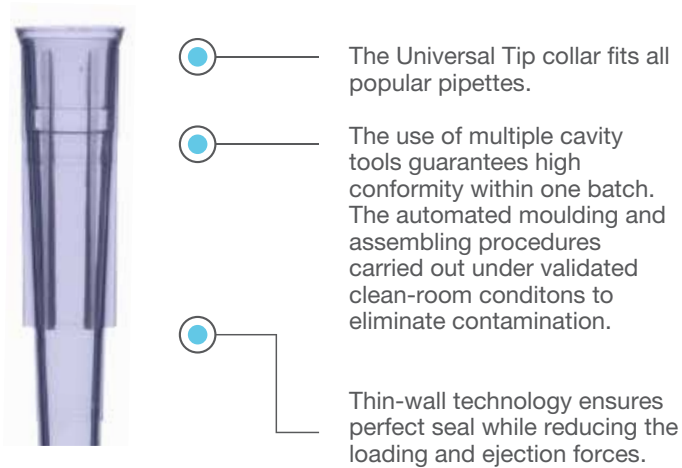
5 Stage quality control procedures ensure 100% quality & performance. All Abdos Tips are DNase, RNase & Pyrogen free.

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

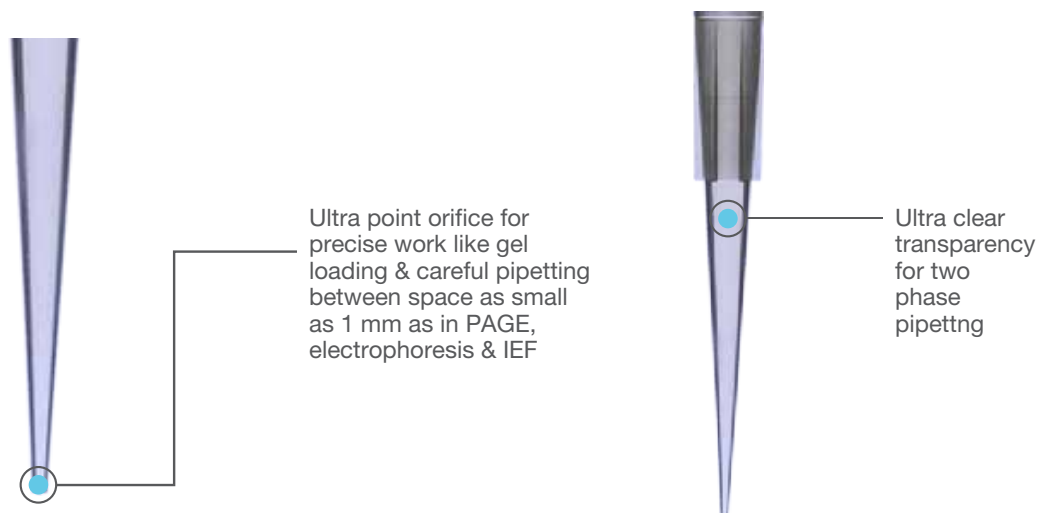
Abdos Bevelled Tips



The Abdos Edge



Abdos Ultra-point Tips





53 Pipette Tips, PP



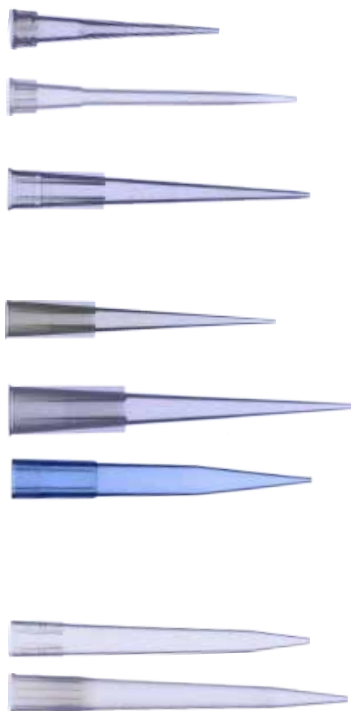
- Abdos Tips are manufactured in state of art precision-moulded facility using high purity virgin medical grade usp Class VI polypropylene.
- Abdos Micro Tips are DNase, RNase, Pyrogen free and free from PCR Inhibitor.
- Manufactured in ultra modern clean room facility for contamination free product.
- Designed for use in a wide variety of pipetting applications and universally compatible with different types of pipettes.
- The orifice is precisely centered for directional accuracy.
- Perfect airtight grip on pipette by inner radial rings for accurate pipetting.
- Clean and the hydrophobic surface ensures low retention, increased accuracy and reproducibility.
- Optical clarity and transparency for clear visualization in molecular biology work.
- Ultra Point Tip tip orifice makes the tip more suitable for molecular biology and precise applications.
- Can be autoclaved.

PIPETTE & LIQUID HANDLING CONSUMABLES

Pipette Tips, Bulk PP

- Bulk Micro Tips are offered in resalable zip lock bag keeping the product free of contamination and dust.
- Micro Tips can be manually accumulated in empty boxes.
- Abdos polyethylene bags are recyclable.

Code	Capacity (µl)	Colour	No. per Case	Price / Case (₹)	Price / 192 Case (₹)
P10115	0.2 - 10 (Graduated)	Natural	1000	500	90240
P10137	0.2 - 10 Extended (Graduated)	Natural	1000	500	90240
P10129	2 - 200 (Bevelled Graduated)	Yellow	1000	337	60822
P10130	2 - 200 (Bevelled Graduated)	Natural	1000	337	60822
P10101	2 - 200 (Ultra Point Tip Orifice)	Yellow	1000	354	63890
P10105	2 - 200 (Ultra Point Tip Orifice)	Natural	1000	354	63890
P10138	2 - 300 (Graduated)	Natural	1000	443	79953
P10102	100 - 1000	Blue	500	255	46023
P10106	100 - 1000	Natural	500	255	46023



Large Volume Pipette Tips, Bulk PP

Code	Capacity (ml)	Colour	No. per Case	Price /Case (₹)
P10144	1 - 5 (Graduated)	Natural	100	340
P10145	1 - 10 (Graduated)	Natural	100	680



Pipette Tips, Racked PP

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

Code	Capacity (µl)	Colour	No. Per Case	Price /Case (₹)
P10116	0.2 - 10 (Graduated)	Natural	10 Racks x 96 pcs (960 pcs)	1500
P10139	0.2 - 10 Extended (Graduated)	Natural	10 Racks x 96 pcs (960 pcs)	1550
P10140	2-200 (Bevelled Graduated)	Yellow	10 Racks x 96 pcs (960 pcs)	1300
P10141	2-200 (Bevelled Graduated)	Natural	10 Racks x 96 pcs (960 pcs)	1300
P10107	2-200 (Ultra Point Tip Orifice)	Yellow	10 Racks x 96 pcs (960 pcs)	1550
P10108	2-200 (Ultra Point Tip Orifice)	Natural	10 Racks x 96 pcs (960 pcs)	1550
P10142	2-300 (Graduated)	Natural	10 Racks x 96 pcs (960 pcs)	1550
P10109	100 - 1000	Blue	10 Racks x 96 pcs (960 pcs)	1600
P10110	100-1000	Natural	10 Racks x 96 pcs (960 pcs)	1600





Pipette Tips, Sterile Racked, PP

- Sterile by Gama Radiation.

Code	Capacity (µl)	Colour	No. Per Case	Price /Case (₹)
P10117	0.2 – 10 (Graduated)	Natural	10 Racks x 96 pcs (960 pcs)	1800
P10147	0.2 – 10 Extended (Graduated)	Natural	10 Racks x 96 pcs (960 pcs)	1850
P10149	2-200 (Bevelled Graduated)	Yellow	10 Racks x 96 pcs (960 pcs)	1700
P10148	2-200 (Bevelled Graduated)	Natural	10 Racks x 96 pcs (960 pcs)	1700
P10111	2-200 (Ultra Point Tip Orifice)	Yellow	10 Racks x 96 pcs (960 pcs)	1900
P10112	2-200 (Ultra Point Tip Orifice)	Natural	10 Racks x 96 pcs (960 pcs)	1900
P10150	2-300 (Graduated)	Natural	10 Racks x 96 pcs (960 pcs)	1900
P10113	100-1000	Blue	10 Racks x 96 pcs (960 pcs)	1950
P10114	100 - 1000	Natural	10 Racks x 96 pcs (960 pcs)	1950

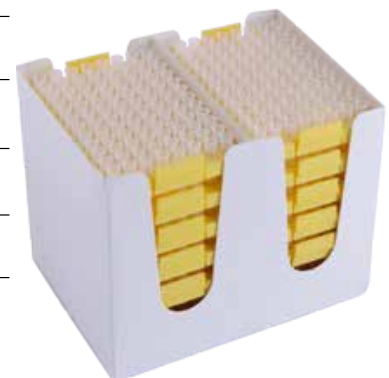


* Sterile Tips has been validated according to EN ISO 11137 - 2; 2012 for SAL 10⁻⁶

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 accumulating in empty boxes.
- More cost effective and economical than racked micro tips.
- Fits perfectly onto Abdos Micro Tip Box.
- 12 x 8 Array to align the contents in the box.
- Can be autoclaved when racked.

Code	Capacity (µl)	Colour	No. Per Case	Price /Case (₹)
P10118	0.2 - 10 (Graduated)	Natural	12 Refill Racks x 96 pcs (1152 pcs)	1075
P10153	2-200 (Bevelled Graduated)	Yellow	10 Refill Racks x 96 pcs (960 pcs)	925
P10152	2-200 (Bevelled Graduated)	Natural	10 Refill Racks x 96 pcs (960 pcs)	925
P10119	2-200 (Ultra Point Tip Orifice)	Yellow	10 Refill Racks x 96 pcs (960 pcs)	1000
P10120	2-200 (Ultra Point Tip Orifice)	Natural	10 Refill Racks x 96 pcs (960 pcs)	1000
P10154	2-300 (Graduated)	Natural	10 Refill Racks x 96 pcs (960 pcs)	1000



* P10137, P10138, P10144, P10145, P10139, P10142, P10147, P10150 & P10154 will be available from November 2015.

ABDOS PIPETTE TIPS COMPATIBILITY CHART

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
P10115 / 0.2 - 10 µl	√					√					√	√									√			√		
P10137 / 0.2 - 10 µl	√					√					√	√									√			√		
P10129 / 2 - 200 µl		√	√	√			√	√	√				√	√	√	√	√	√				√	√		√	√
P10130 / 2 - 200 µl		√	√	√			√	√	√				√	√	√	√	√	√				√	√		√	√
P10101 / 2 - 200 µl		√	√	√			√	√	√				√	√	√	√	√	√				√	√		√	√
P10105 / 2 - 200 µl		√	√	√			√	√	√				√	√	√	√	√	√				√	√		√	√
P10138 / 2 - 300 µl		√	√	√			√	√	√				√	√	√	√	√	√				√	√		√	√
P10102 / 100 - 1000 µl					√					√									√	√						
P10106 / 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)	
	0.2-10 µl	5-120 µl	10-300 µl	50-1000 µl	0.2-10 µl	10-300 µl	0.5-10 µl	10-100 µl	20-200 µl	100-1000 µl	0.5-10 µl	5-100 µl	30-300 µl	0.2-10 µl	5-100 µl	10-250 µl	50-1000 µl	0.2-10 µl	5-100 µl	25-250 µl	0.2-10 µl	5-100 µl	
P10115 / 0.2 - 10 µl	√				√		√				√							√			√		
P10137 / 0.2 - 10 µl	√				√		√				√							√			√		
P10129 / 2 - 200 µl		√					√	√				√			√						√		√
P10130 / 2 - 200 µl		√					√	√				√			√						√		√
P10101 / 2 - 200 µl		√					√	√				√			√						√		√
P10105 / 2 - 200 µl		√					√	√				√			√						√		√
P10138 / 2 - 300 µl		√	√			√	√	√				√	√		√	√					√	√	√
P10102 / 100 - 1000 µl				√					√							√							
P10106 / 100 - 1000 µl				√					√							√							

Pipettor Brand/ Make	Biohit ePet (Multi Channel)			Biohit Proline Electronics (Single Channel)				Biohit Proline Electronics (Multi-Channel)			Biohit Proline (Single Channel)						Biohit Proline (Multi-Channel)				Biohit Proline Plus (Single Channel)		
	0.2-10 µl	5-100 µl	25-250 µl	0.2-10 µl	5-100 µl	10-250 µl	50-1000 µl	0.2-10 µl	5-100 µl	10-250 µl	0.2-10 µl	5-50 µl	10-100 µl	50-200 µl	10-250 µl	200-1000 µl	0.5-10 µl	5-50 µl	50-250 µl	50-300 µl	0.5-10 µl	20-200 µl	100-1000 µl
P10115 / 0.2 - 10 µl	√			√				√			√					√				√			
P10137 / 0.2 - 10 µl	√			√				√			√					√				√			
P10129 / 2 - 200 µl		√			√				√			√	√	√						√			√
P10130 / 2 - 200 µl		√			√				√			√	√	√						√			√
P10101 / 2 - 200 µl		√			√				√			√	√	√						√			√
P10105 / 2 - 200 µl		√			√				√			√	√	√						√			√
P10138 / 2 - 300 µl		√	√		√	√			√	√		√	√	√	√					√	√	√	√
P10102 / 100 - 1000 µl							√								√								√
P10106 / 100 - 1000 µl							√								√								√

Pipettor Brand/ Make	Brand Transferpette										Brand Electronics									
	Single Channel					Multi-Channel					Single Channel					Multi-Channel				
Abdos Code / Volume	0.5-10 µl	5-50 µl	10-100 µl	20-200 µl	25-250 µl	100-1000 µl	0.5-10 µl	5-50 µl	10-100 µl	20-200 µl	30-300 µl	0.5-10 µl	10-100 µl	20-200 µl	30-300 µl	100-1000 µl	0.5-10 µl	5-100 µl	10-200 µl	15-300 µl
P10115 / 0.2 - 10 µl	√						√					√					√			
P10137 / 0.2 - 10 µl	√						√					√					√			
P10129 / 2 - 200 µl		√	√	√				√	√	√			√	√				√	√	
P10130 / 2 - 200 µl		√	√	√				√	√	√			√	√				√	√	
P10101 / 2 - 200 µl		√	√	√				√	√	√			√	√				√	√	
P10105 / 2 - 200 µl		√	√	√				√	√	√			√	√				√	√	
P10138 / 2 - 300 µl		√	√	√	√			√	√	√	√		√	√	√			√	√	√
P10102 / 100 - 1000 µl						√										√				
P10106/100-1000 µl						√										√				

Pipettor Brand/ Make	Brand Transferpette							Capp Aero						Gilson Pipetman					Gilson Pipetman Ultra	
	Single Channel				Multi-Channel			Single Channel / Multi-Channel						Single Channel					Multi-Channel	
Abdos Code / Volume	0.5-10 µl	10-100 µl	20-200 µl	100-1000 µl	0.5-10 µl	10-100 µl	20-200 µl	30-300 µl	0.2-2 µl	0.5-10 µl	10-100 µl	25-200 µl	50-300 µl	100-1000 µl	0.2-2 µl	1-10 µl	20-100 µl	50-200 µl	200-1000 µl	20-300 µl
P10115 / 0.2 - 10 µl	√				√				√	√					√	√				
P10137 / 0.2 - 10 µl	√				√				√	√					√	√				
P10129 / 2 - 200 µl		√	√			√	√				√	√					√	√		
P10130 / 2 - 200 µl		√	√			√	√				√	√					√	√		
P10101 / 2 - 200 µl		√	√			√	√				√	√					√	√		
P10105 / 2 - 200 µl		√	√			√	√				√	√					√	√		
P10138 / 2 - 300 µl		√	√			√	√	√			√	√	√				√	√		√
P10102 / 100 - 1000 µl				√										√					√	
P10106/100-1000 µl				√										√					√	

Pipettor Brand / Make	Gilson Pipetman Ultra				Gilson Concept			Gilson Concept			Gilson Neo		
	Single Channel				Single Channel			Multi-Channel			Single Channel		
Abdos Code / Volume	1-10 µl	20-100 µl	20-200 µl	200-1000 µl	0.5-10 µl	5-100 µl	20-300 µl	1-10 µl	10-100 µl	30-300 µl	1-10 µl	20-100 µl	100-1000 µl
P10115 / 0.2 - 10 µl	√				√			√			√		
P10137 / 0.2 - 10 µl	√				√			√			√		
P10129 / 2 - 200 µl		√	√			√			√			√	
P10130 / 2 - 200 µl		√	√			√			√			√	
P10101 / 2 - 200 µl		√	√			√			√			√	
P10105 / 2 - 200 µl		√	√			√			√			√	
P10138 / 2 - 300 µl		√	√			√	√		√	√		√	
P10102 / 100 - 1000 µl				√									√
P10106 / 100 - 1000 µl				√									√

PIPETTE & LIQUID HANDLING CONSUMABLES

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 / Volume	0.2-2 µL	1-10 µL	2-20 µL	10-100 µL	20-200 µL	100-1000 µL	0.2-2 µL	1-10 µL	2-20 µL	10-100 µL	20-200 µL	100-1000 µL	0.5-20 µL	5-250 µL	2-125 µL	25-1250 µL	0.1-10 µl	2-20 µl	10-100 µl	20-200 µl	100-1000 µl	5-100 µl	2-200 µl	50-1000 µl
P10115 / 0.2 - 10 µl	✓	✓	✓				✓	✓	✓				✓				✓	✓						
P10137 / 0.2 - 10 µl	✓	✓	✓				✓	✓	✓				✓				✓	✓						
P10129 / 2 - 200 µl				✓	✓					✓	✓			✓	✓				✓	✓		✓	✓	
P10130 / 2 - 200 µl				✓	✓					✓	✓			✓	✓				✓	✓		✓	✓	
P10101 / 2 - 200 µl				✓	✓					✓	✓			✓	✓				✓	✓		✓	✓	
P10105 / 2 - 200 µl				✓	✓					✓	✓			✓	✓				✓	✓		✓	✓	
P10138 / 2 - 300 µl				✓	✓					✓	✓			✓	✓				✓	✓		✓	✓	
P10102 / 100 - 1000 µl						✓						✓				✓					✓			✓
P10106 / 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 / Volume	0.5-10 µl	2-20 µl	10-100 µl	20-200 µl	100-1000 µl	0.5-10 µl	5-100 µl	50-100 µl	0-300 µl	30-300 µl	50-1200 µl	0.2-10 µl	0.5-10 µl	40-200 µl	100-1000 µl	200-1000 µl	0.1-10 µl		10-100 µl	30-300 µl		2-125 µl	
P10115 / 0.2 - 10 µl	✓	✓				✓						✓	✓				✓						
P10137 / 0.2 - 10 µl	✓	✓				✓						✓	✓				✓						
P10129 / 2 - 200 µl			✓	✓			✓	✓						✓						✓			✓
P10130 / 2 - 200 µl			✓	✓			✓	✓						✓						✓			✓
P10101 / 2 - 200 µl			✓	✓			✓	✓						✓						✓			✓
P10105 / 2 - 200 µl			✓	✓			✓	✓						✓						✓			✓
P10138 / 2 - 300 µl			✓	✓			✓	✓	✓	✓				✓						✓	✓		✓
P10102/100-1000 µl					✓						✓*				✓	✓							
P10106 /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 / Volume	0.1-2 µl	0.5-10 µl	10-100 µl	20-200 µl	100-1000 µl	1-10 µl	20-200 µl	50-300 µl	0.5-10 µl	10-200 µl	100-1000 µl	0.5-10 µl	10-200 µl	100-1000 µl	0.5-10 µl	10-100 µl	20-200 µl	100-1000 µl
P10115 / 0.2 - 10 µl	✓	✓				✓			✓			✓			✓			
P10137 / 0.2 - 10 µl	✓	✓				✓			✓			✓			✓			
P10129 / 2 - 200 µl			✓	✓			✓			✓			✓			✓	✓	
P10130 / 2 - 200 µl			✓	✓			✓			✓			✓			✓	✓	
P10101 / 2 - 200 µl			✓	✓			✓			✓			✓			✓	✓	
P10105 / 2 - 200 µl			✓	✓			✓	✓		✓			✓			✓	✓	
P10138 / 2 - 300 µl			✓	✓			✓	✓		✓			✓			✓	✓	
P10102 / 100 - 1000 µl					✓						✓			✓				✓
P10106 / 100 - 1000 µl					✓						✓			✓				✓

Pipettor Brand/ Make	Socorex Calibra / Accura										Axygen Axypet									
	Single Channel					Multi - Channel					Single Channel				Multi -Channel					
Abdos Code / Volume	0.5-10 µl	1-10 µl	10-100 µl	20-200 µl	100-1000 µl	1-10 µl	5-50 µl	10-100 µl	20-200 µl	50-200 µl	0.5-10 µl	5-50 µl	10-100 µl	20-200 µl	50-250 µl	100-1000 µl	1-10 µl	5-50 µl	20-200 µl	50-300 µl
P10115 / 0.2 - 10 µl	✓	✓				✓					✓						✓			
P10137 / 0.2 - 10 µl	✓	✓				✓					✓						✓			
P10129 / 2 - 200 µl			✓	✓			✓	✓	✓	✓		✓	✓	✓				✓	✓	✓
P10130 / 2 - 200 µl			✓	✓			✓	✓	✓	✓		✓	✓	✓				✓	✓	✓
P10101 / 2 - 200 µl			✓	✓			✓	✓	✓	✓		✓	✓	✓				✓	✓	✓
P10105 / 2 - 200 µl			✓	✓			✓	✓	✓	✓		✓	✓	✓				✓	✓	✓
P10138 / 2 - 300 µl			✓	✓			✓	✓	✓	✓		✓	✓	✓	✓			✓	✓	✓
P10102 / 100 - 1000 µl					✓											✓				
P10106 / 100 - 1000 µl					✓											✓				

Pipettor Brand/ Make	Brand		Eppendorf		Biohit Proline plus		Gilson		Thermo		Abdos	
Abdos Code / 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		✓		✓		✓		✓				✓

*Abdos has put an exhaustive data of pipette compatibility. Still, if some pipettor brand is not mentioned in this chart please contact Abdos to confirm compatibility.

54 Empty Micro Tip Box, PP

- Abdos Micro Tip Box are robust with consistent wall thickness for repetitive use in single and multi channel pipette.
- Abdos Micro Tip Box can accommodate Abdos Micro Tips and the tip holding space is uniformly placed to facilitate easy use in multi channel pipette.
- These boxes are stackable.
- Transparent top cover provides excellent view of the Micro Tips inside the box.
- Manufactured in high quality polypropylene.
- All Tip Boxes contain 96 Tip holes.
- Can be autoclaved.



Code	Tip Capacity (µl)	Places	L x W x H (mm)	No. per Case	Price / Case (₹)
P20101	0.2 - 10	96	126 x 93 x 70	6	715
P20102	2-200	96	126 x 93 x 70	6	715
P20104	2-300	96	126 x 93 x 70	6	800
P20103	100-1000	96	143 x 100 x 88	6	910



55 Pipet Rack Stand, Acrylic

- Keep your pipettors within easy inside this convenient rack.
- Holds five standard size pipettors.
- Racks are mounted on their own stand.
- Keeps working area or desk free from clutter

Code	Places	L x W x H (mm)	No. per Case	Price /Case (₹)
P70201	5	190 x 135 x 265	1	2010

56 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 microtiterplates. This design allows ample clearance for all types of pipettors.
- Cannot be autoclave.



Code	Capacity (ml)	No. per Case	Price /Case (₹)
P10501	25	10	750
P10503	100	10	910



57

Fast Release Pipette Pump

- Fast release pipette pump ensures quick and accurate operation.
- These lightweight pipette pump have a fast release trigger that dispenses the entire pipette contents.
- The thumb wheel easily rotates for precision aspirating or dispensing, down to a volume of one drop at a time.
- The thumb wheel can be used to blow out the contents of the pipette.
- Resistant to acids, alkalis.
- Easily disassembly for cleaning.

Code	Capacity (ml)	No. per Case	Price /Case (₹)
E11219	2	4	7000
E11220	10	4	7700
E11221	25	4	8500



58

Handypette Pipette Aid.

- 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 stabilizing fingers for secure hold.
- Resistant to acids, alkalis.
- Easily disassembly for cleaning.
- 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.



Code	Capacity (ml)	No. per Case	Price / Case (₹)
E11218	10	4	2200
E11216	25	4	2475

59

Rubber Pipette Pump

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

Code	Capacity	No. per Case	Price/ Case (₹)
E11217	Up to 100 ml	4	1800



60 Rave Plus Pipette Filler, PP

- 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 and 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 battery that provides enough battery power to finish the users series.
- Abdos Rave Pipette Controller is supplied with integral and replaceable 0.45 µm filter.



Code	Product	No. per Case	Price /Case (₹)
E11114	Rave Plus Pipette Filler with Lithium Ion Battery and digital speed control	1	15100

Spare Filters

Code	Product	No. per Case	Price /Case (₹)
E11116	Spare 0.45 µm Filter	1	650
E11117	Spare Lithium-ion	1	5800
E11118	Spare Adapter	1	5000

Specifications

Battery	Lithium-Ion
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 µm Hydrophobic



61 Rave Pipette Controller, PP

- Abdos Rave Pipette Controller is robust, light weight and its simple to use operations makes it ideal for repetitive pipetting.
- Users can use Volumetric and Serological Pipettes ranging from 1 ml to 100 ml.
- Abdos Rave Pipette Controller is supplied with integral and replaceable 0.3 um filter. The in-line filter prevents contamination. Precise Pipetting control is possible in Abdos Rave Pipette Controller.
- Abdos Rave Pipette Controller have autoclavable silicone pipette holder.

Code	Product	No. per Case	Price/ Case (₹)
E11113	Rave Pipette Controller	1	2700

Spare Filters

Code	Product	No. per Case	Price/ Case (₹)
E11119	Spare 3.00 µm Filter	1	250



62 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 mounts securely to most metal surfaces.

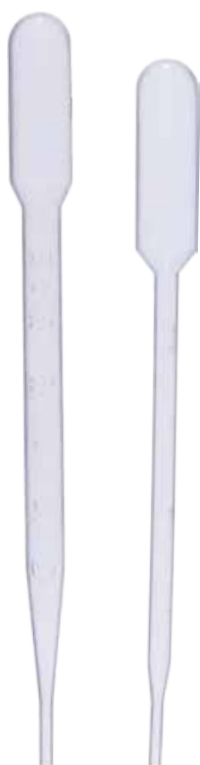
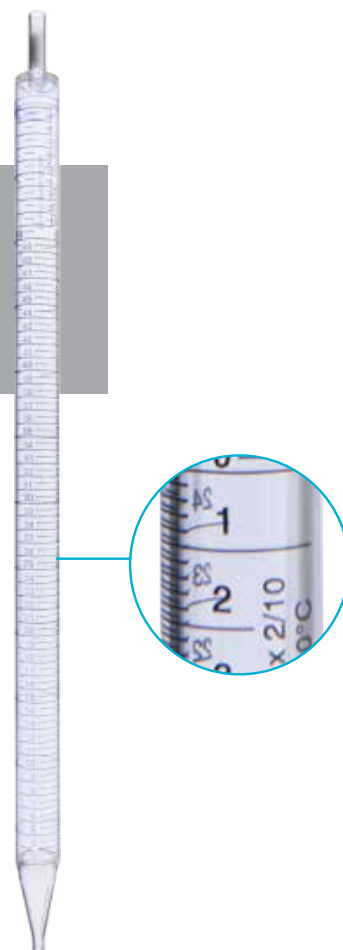


Code	Description	L x W x H (mm)	No. per Case	Price /Case (₹)
P70202	Store 1 - 50 ml pipette or cans	291 x 88 x 401	1	3400

63 Serological Pipettes Sterile, PS

- Individually wrapped graduated pipettes with paper/plastic peel-pack.
- Unique color-Coded plug allows easy size identification & inhibits aerosol contamination.
- Sterile, individually wrapped and certified nonpyrogenic and DNase, RNase-free.
- Lot numbers printed on each pipette wrapper.
- Accuracy within $\pm 2\%$ at full volume.

Code	Length (mm)	Capacity (ml)	No. per Case	Price /Case (₹)
P10601	270	1	500	5462
P10602	270	2	500	6200
P10603	295	5	250	4462
P10604	295	10	200	3835
P10605	298	25	200	8676
P10606	300	50	100	9150



64 Pasteur Pipettes, LDPE

- These unbreakable, non-toxic all-in one pipettes eliminate the hazard of broken glass and exposure to infectious materials.
- Molded from translucent lowdensity polyethylene which are inert to biological fluids and most acids.
- Can be sealed and refrigerated.
- The low-affinity low binding surface reduces the loss of cells and valuable proteins.
- Sterile and non-sterile options available.

Code	Capacity (ml)	Length (mm)	No. per Case	Price /Case (₹)	Price /48 Case (₹)
P31201	1.0	150	500	652	29419
P31202	1.0 (Sterile)	150	500	2251	101566
P31205	3.0	155	500	678	30592
P31206	3.0 (Sterile)	155	500	2287	103190

Radioimmunoassay (RIA) Vial & Cap (Plastic Test Tube)



- 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 RCF during centrifugation while the transparent

polystyrene tubes can withstand 1400 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.
- Abdos Ria Vials PP are autoclavable while PS tubes are non-autoclavable.



Radioimmunoassay (RIA) Vial

Code	Ø x h (mm)	Material	Capacity (ml)	No. per Case	Price /Case	Price /260 Case (₹)
P10301	12 x 75	PP	5	500	431	105337
P10303	12 x 75	PS	5	500	443	108269
P10305	12 x 40	PP	2.5	500	321	78453
P10306	12 x 40	PS	2.5	500	330	80652

Radioimmunoassay (RIA) Vial Cap



Code	Ø (mm)	Material	No. per Case	Price /Case	Price/192 Case (₹)
P10304	12	HDPE	500	226	40789
P10307	12	PP	500	280	50535
P10302	12	LDPE	500	280	50535

* Ria Vial Cap can be available in various colours upon request.

Amber Radioimmunoassay (RIA) Vial

Code	Ø x h (mm)	Material	Capacity (ml)	No. per Case	Price /Case (₹)
P10301A	12 x 75	PP Amber	5	500	518
P10301A1	12 x 75	PP Transparent Amber	5	500	518
P10305A	12 x 40	PP Amber	2.5	500	400
P10305A1	12 x 40	PP Transparent Amber	2.5	500	400



Amber Radioimmunoassay (RIA) Vial Cap



Code	Ø (mm)	Material	No. per Case	Price /Case (₹)
P10304A	12	HDPE Amber	500	276
P10304A1	12	HDPE Transparent Amber	500	276

66 Plastic Test Tube & Cap

- Abdos plastic test tube is polypropylene / polystyrene tubes are used for routine sample handling, storage and transportation.
- Polypropylene tubes are clear and can withstand 3000 RCF during centrifugation while the transparent polystyrene tubes can withstand 1400 RCF.
- These tubes have high impact strength and stable for use in acids, alkalies and solvents.
- 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.
- PP are autoclavable while PS tubes are non-autoclavable.



Plastic Test Tube

Code	Ø x h (mm)	Material	Capacity (ml)	No. per Case	Price / Case (₹)
P10308	13 x 100	PP	8	500	980
P10309	13 x 100	PS	8	500	1000
P10310	16 x 100	PP	10	500	1225
P10311	16 x 100	PS	10	500	1250

Plastic Test Tube Cap

Code	Ø (mm)	Material	No. per Case	Price /Case (₹)
P10312	13	HDPE	1000	1175
P10313	16	HDPE	1000	1250



67 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.
- Non-Sterile container has tear off cap sleeve for highest level of hygiene.
- Sterile container is individually packed in polyethylene pouch.

Code	Capacity (ml)	Sub Division (ml)	Height (ml)	No. Per Case	Price/ Each (₹)	Price/ Case (₹)
P40101	50	10	58	400	5.59	2236
P40102	50 (Sterile)	10	58	400	7.43	2972
P40103	100	20	76	200	7.27	1454
P40104	100 (Sterile)	20	76	200	8.72	1744

Add the following codes for the cap colour of your choice	Colour	Code
	White	W
	Red	R
	Blue	B

* Sterile Sample Container has been validated according to ENISO 1137-2; 2007 for SAL 10⁻⁶

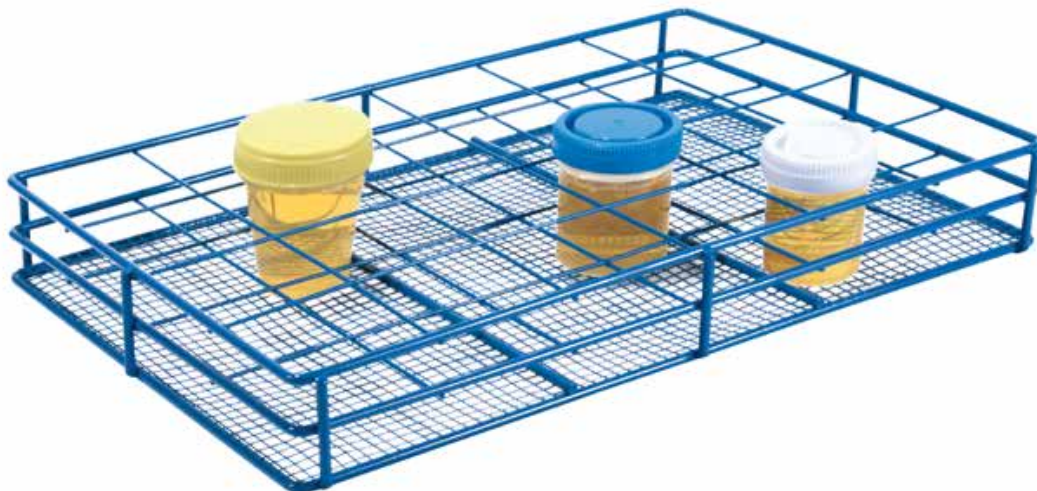


68

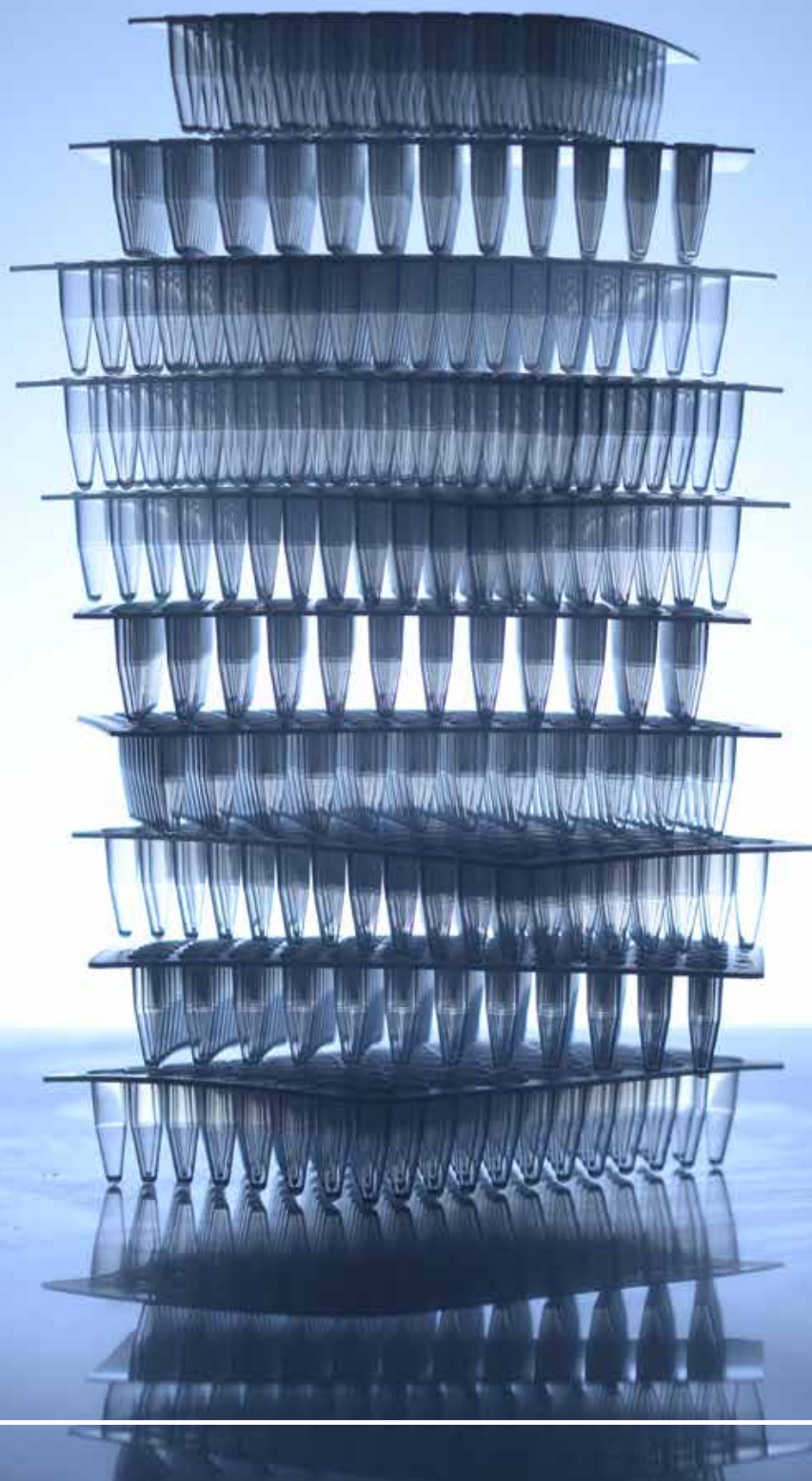
Wire Sample Container Rack, Epoxy Coated Steel

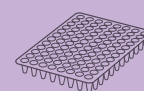
- Durable racks for transport or sample handling.
- Suitable for various round, conical, flat bottom in glass, plastic tubes and bottles.
- Superior chemical resistance.
- Holds bottles and vessels up to 58 mm in diameter.
- Bottom has mesh that gives support.
- Slotted bottom.
- Can be autoclaved

Code	Tube Diameter (mm)	Places	L xW x H (mm)	No. per Case	Price / Case (₹)
P40111	58	24 (6 x 4 Array)	393 x 262 x 50	1	3200



PCR FAMILY

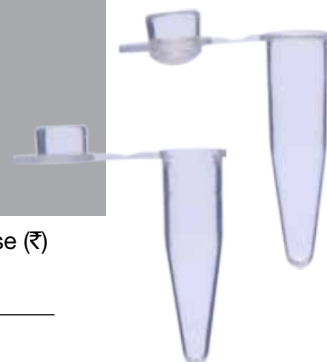




69 PCR Tubes, PP

- Abdos PCR tubes are manufactured in state of the art precision moulded facility using high purity virgin polypropylene.
- Abdos PCR tubes have longer length and even cap insertion that ensures tight fit eliminating risk of sample evaporation.

- Abdos PCR tubes have thin and consistent wall thickness to reduce insulating effect on the tube.
- The caps are optically clear for real time qPCR.
- DNase, RNase, DNA, Endotoxin and PCR inhibitor free.



Code	Capacity (ml)	Type	Height (mm)	No. Per Case	Price /Case (₹)
P10701	0.2	Clear Flat Cap	21.50	1000	2343
P10702	0.2	Domed Cap	23.16	1000	2343

70 Snap Strips PCR Tubes, PP

- Abdos Snap Strips PCR Tubes are manufactured in state of the art precision moulded facility using high purity virgin polypropylene.
- Snap Strips are 0.2 ml 8 strips of PCR tubes that have individually attached domed or flat caps.

- Snap Strips easily break into smaller strips if required.
- DNase, RNase, DNA, Pyrogen free and PCR inhibitor free.
- Abdos Snap Strips Tube have uniform thin walls.
- These strips are optically clear for real time qPCR.

Code	Capacity (ml)	Type	Height (mm)	No. Per Case	Price /Case (₹)
P10704	0.2	Dome, Clear	23.20	120 strips	4820
P10705	0.2	Optically Clear Flat	21.60	120 strips	5569



71 Strip Tubes without Cap -8 strips & 12 strips, PP

- Abdos Strips PCR Tubes are manufactured in state of the art precision moulded facility using high purity virgin polypropylene.
- Abdos Strip Tubes have uniform ultra 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.
- DNase, RNase, DNA, Endotoxin and PCR inhibitor free.



Code	Capacity (ml)	Type	Height (mm)	No. Per Case	Price / Case (₹)
P10706	0.2	8 Strip Standard Tubes	20.70	125 strips	4386
P10708	0.2	8 Strip Low Profile Tubes	16.10	125 strips	4177
P10707	0.2	12 Strip Standard Tubes	20.70	80 strips	5462

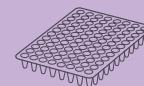
72 Strip Caps, PP

- Abdos Strips PCR Caps are manufactured in state of the art precision moulded facility using high purity virgin polypropylene.
- Abdos strip caps feature ultra-clear surface ideal for florescent, luminescent and real time PCR applications.
- Optically clear caps for real time qPCR.
- Strip Caps are available both in Flat and Domed.
- DNase, RNase, DNA, Endotoxin and PCR inhibitor free.

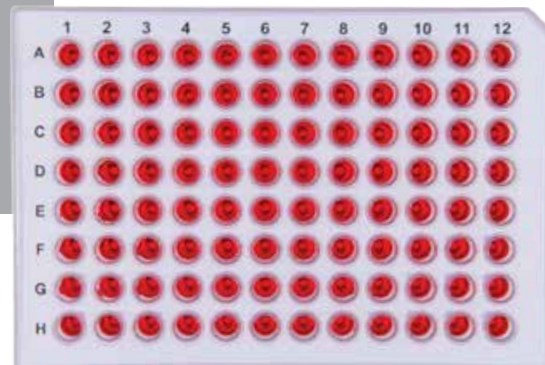


Code	Capacity (ml)	Type	No. Per Case	Price /Case (₹)
P10709	0.2	8 Strip Cap Flat Optically Clear	125 strips	964
P10710	0.2	12 Strip Cap Flat Optically Clear	80 strips	964
P10711	0.2	8 Strip Cap Domed	125 strips	996
P10712	0.2	12 Strip Cap Domed	80 strips	996

73 PCR Plates Family, PP



- Abdos PCR plates are manufactured in state of the art precision moulded facility using high purity virgin polypropylene.
- Ultra thin and consistent wall thickness allows precise thermal transfer.
- Maximum G-Force 4000 RCF.
- Abdos PCR plates are qPCR compatible.
- DNase, RNase, DNA, Endotoxin and PCR inhibitor free.
- Kindly see Thermal Cycler Compatibility Chart on Page No.81-82



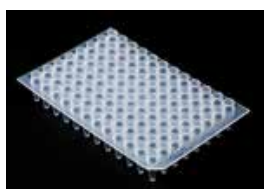
Code	Capacity	Type	No. Per Case	Price /Case (₹)
P10713	96 Well	Unskirted Standard Well	10 Plates	1686
P10714	96 Well	Unskirted Low Profile well	20 Plates	3427
P10715	96 Well	Unskirted Elevated Top Standard Well	10 Plates	2249
P10722	96 Well	Semi-Skirted low profile	10 Plates	2142
P10716	96 Well	Semi - Skirted Standard Well	10 Plates	2356
P10723	96 Well	Fully-Skirted Low Profile Well	10 Plates	2089
P10717	384 Well	Fully - Skirted Well	10 Plates	3534



P10713



P10714



P10715



P10722



P10716



P10723



P10717

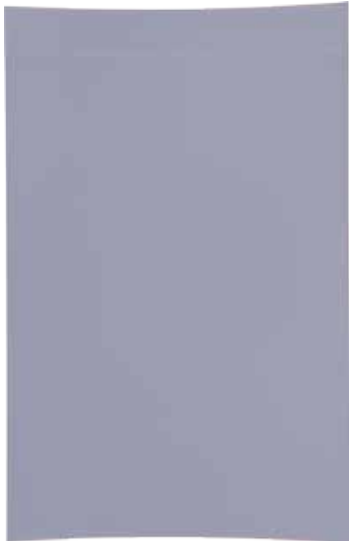
74 Sealing Mats, Silicone Rubber

- These mats are made of silicone rubber and designed to seal all PCR plates except P10717.
- The mat is made up of 96 (12 x 8 array) plugs.
- The mat has to be compressed. A plug that caps the individual well seals each well on the PCR plate.



Code	Type	No. Per Case	Price /Case (₹)
P10721	Silicone Sealing Mats	50 mats	20000

* These mats are used for sealing all PCR plates except P10717.



75 Sealing Films, Polyester

- Abdos sealing films are optically clear and are suitable for use in real-time PCR applications.
- The film is adhesive coated and sticks to the plate. It can be used for PCR plates.
- Abdos sealing films are disposable and for single use only.

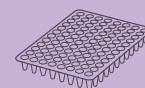
Code	Type	No. Per Case	Price /Case (₹)
P10718	Clear Seal Film	100 sheets	10500

76 Sealing Films, Aluminium

- These sealing films are aluminium hence completely opaque and the end user cannot see the contents in the well. The film is adhesive coated and sticks to the plate.
- These films are readily pierceable either by manual pipette or by liquid handling robot. Once the hole is pierced the film is no longer self sealing.



Code	Type	No. Per Case	Price /Case (₹)
P10719	Silver Seal	100 sheets	6000



77 Deep Well Plates Family, PP

- Abdos Deep Well plates are manufactured in state of the art precision moulded facility using high purity virgin polypropylene.
- Deep well plates are used for sample collection, in-vitro growth chambers and long-term storage.
- Can be used at temperature down to -80° C.
- Abdos Deep Well Plates are square with conical base. Conical Base helps to minimize dead volumes.
- These plates come with clear alphanumeric indexing.
- Excellent chemical resistance.
- Can be autoclaved.

Code	Capacity (ml)	Type	No. Per Case	Price /Case (₹)
------	---------------	------	--------------	-----------------

P10802	2.2	Deep Well Plates	100 Plates	29610
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P10803	1.2	Deep Well Plates	100 Plates	16800
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78 Reagent Reservoir, PP

- Abdos Reagent Reservoir are manufactured in state of the art precision moulded facility using high purity virgin polypropylene.
- Standard SBS footprintis designed to be robot compatible.
- Base of the reservoir minimizes dead volume.
- Most durable for multi-use and cost effective for single use.
- Can be used at temperature down to -80° C.
- Excellent chemical resistance.
- Can be autoclaved.



Code	Capacity (ml)	Type	No. Per Case	Price /Case (₹)
------	---------------	------	--------------	-----------------

P10801	22	Reagent Reservoir	20 Reservoir	12600
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79 Square Sealing Mats for Deep Well Plates Family, Silicone Rubber

- These sealing mats are suitable for rectangular wells.
- These mats are suitable for heat sealing.
- Excellent chemical resistance.



Code	Type	No. Per Case	Price /Case (₹)
P10804	Square Well Sealing Mats	50 mats	14438

* These mats are used for sealing P10802 & P10803 (Deep well Plates)

80 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 molded alphanumeric indexing for fast and accurate identification.
- Operating temperature is -80° C to +121° C.
- Can be autoclaved.

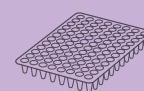
Code	Capacity	Places	L x W x H (mm)	No. per Case	Price / Case (₹)
P11101	1 x 96 well PCR plates, 96 place x individual PCR tubes & 12 x 8-well strips	96	138 x 98 x 39	5	1850

81 PCR Workstation Rack With Lid, PP

- Manufactured in state of the art moulding facility using high purity polypropylene.
- These workstation are easily stackable.
- These racks can accommodate unskirted, semi-skirted and skirted 96 well PCR plates, individual PCR tubes and 0.5, 1.5 and 2.0 ml micro centrifuge tube.
- These workstations have moulded alphanumeric indexing for fast and accurate identification.
- These workstations are ideal platform to satisfy all pre or post PCR sampling applications.
- Operating temperature is -80° C to +121° C.
- Can be autoclaved.



Code	Capacity	L x W x H (mm)	No. per Case	Price /Case (₹)
P11103	24 x individual 0.2 ml PCR tubes, 16 x 0.5, 1.5 / 2.0 ml tubes & 96 well rack for PCR plates	215 x 120 x 50	5	3500



THERMAL CYCLER COMPATIBILITY GUIDE

for ABDOS 96 & 384 Wellplates

		P10713 96 Well, Unskirted Standard Well	P10714 96 Well, Unskirted Low Profile Well	P10715 96 Well, Unskirted, Elevated Top, Standard Well	P10722 96 Well, Semi Skirted, Low Profile Well	P10716 96 Well, Semi Skirted, Standard Well	P10723 96 Well, Fully Skirted, Low Profile Well	P10717 384 Well, Full Skirted, Low Profile Well	
Standard well (Overall well height approx 21 mm, Max. capacity > 350L)		•		•		•			
Low Profile well (Overall well height approx 16 mm; Max capacity approx. 200L)			•		•		•	50 µl	
Manufacturer	Thermal Cycler Model								
APPLIED BIOSYSTEMS									
Thermal Cyclers	2700	•		•		•		•	
	9600	•		•		•			
	9700	•		•		•		•	
"Real Time" Thermal Cyclers	9800 "Fast"								
	5700	•				•			
	PRISM 7000	•				•			
	7300	•			•				
	7500	•			•				
	7500 "Fast"								
	7700	•					•		
Sequencers	7900HT	•			•				
	PRISM 310	•		•		•			
	PRISM 3100	•		•		•			
	3130 (XL)	•		•		•			
	3700	•		•		•		•	
	PRISM 3730 (XL)	•		•		•			
AMERSHAM									
Sequencers	Mega BACE 500						•		
	Mega MACE 1000						•		
	Mega BACE 4000							•	
BECKMAN									
Sequencers	CEQ	•							
BIOMETRA									
Thermal Cyclers	Uno	•	•	•		•	•		
	Uno II	•	•	•		•		•	
	T1 Thermal Cycler	•	•	•		•	•	•	
	Tgradient	•	•	•		•	•		
	Trobot	•	•	•		•	•	•	
BIO-RAD / MJ RESEARCH									
Thermal Cyclers	Gene Cyclers	•		•					
	PTC -100	•	•	•		•	•	•	
	PTC -200	•	•	•		•	•	•	
	PTC-225 TETERAD	•	•	•		•	•	•	
	DYAD-DYAD Disciple	•	•	•		•	•	•	
	iCYCLER	•		•		•	•		
	MyCycler	•		•		•			
	"Real Time" Thermal Cyclers	OPTICON / OPTICON2	•	•				•	
		Chrome 4		•				•	
		ICYCLER	•		•		•	•	•
Myiq		•				•	•		
Sequencers	IQ5	•		•		•	•		
	BaseStation						•		
CORBETT RESEARCH									
Thermal Cyclers	PamCycler 96	•				•			
	PamCycler 384						•	•	

Plates to SBS Specification foot print. Certified Free From DNase, RNase and Detectable DNA.
 This chart is intended as a guide only. Abdos cannot accept any liability or responsibility for information given.
 PCR is a patented process of Roche Holdings.

PCR PRODUCTS

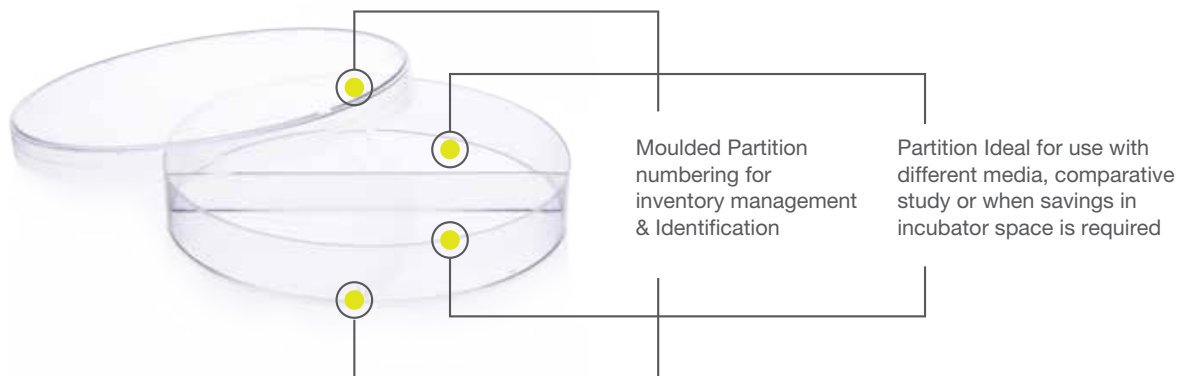
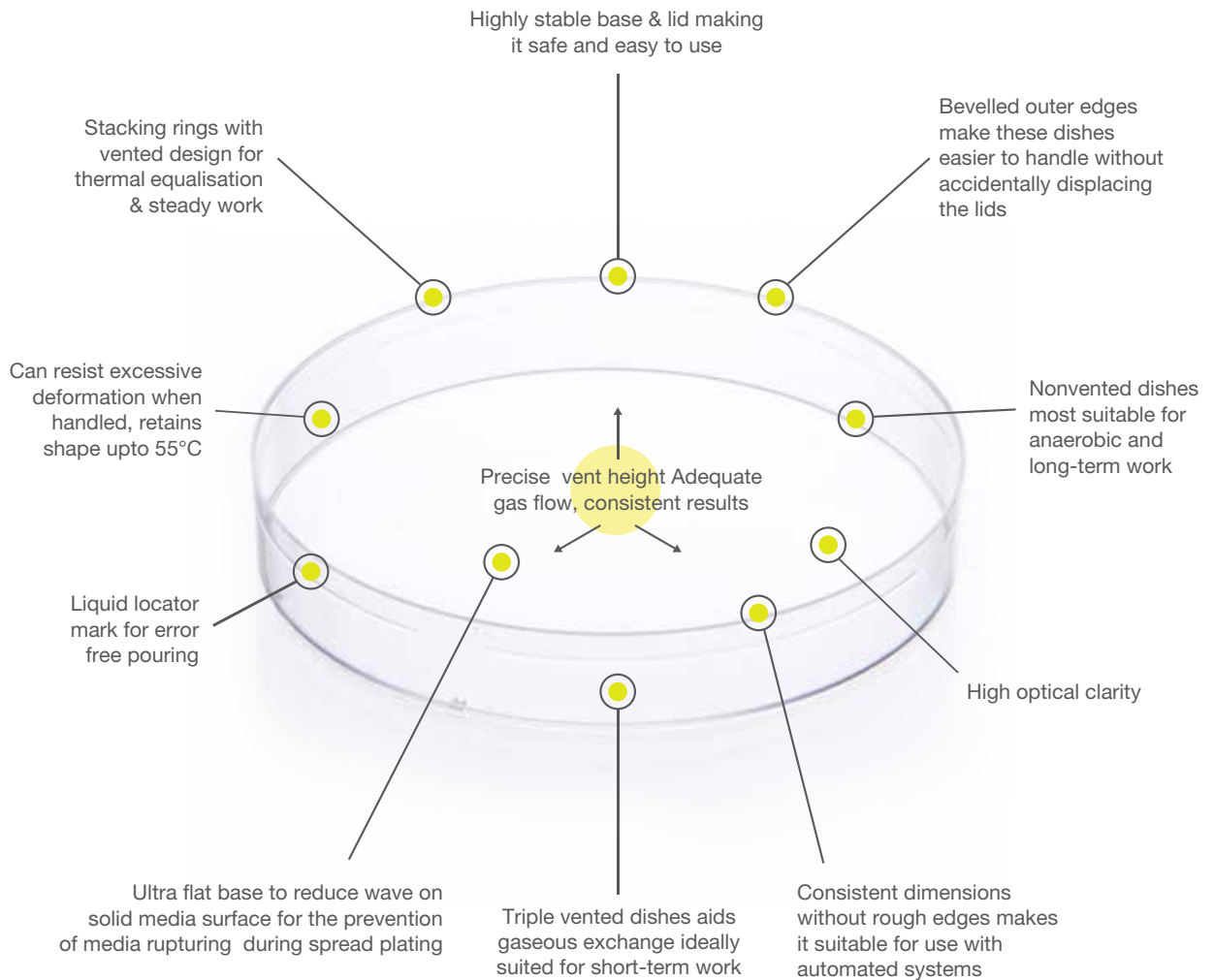
		P10713 96 Well, Unskirted Standard Well	P10714 96 Well, Unskirted Low Profile Well	P10715 96 Well, Unskirted, Elevated Top, Standard Well	P10722 96 Well, Semi Skirted, Low Profile Well	P10716 96 Well, Semi Skirted, Standard Well	P10723 96 Well, Fully Skirted, Low Profile Well	P10717 384 Well, Full Skirted, Low Profile Well
Well Shape								
Standard well <small>(Overall well height approx 21 mm Max. capacity > 350)</small>		•		•		•		
Low Profile well <small>Overall well height approx 16 mm; Max capacity approx. 200</small>			•		•		•	50 µl
Manufacturer	Thermal Cycler Model							
EPPENDORF								
Thermal Cyclers	Mastercycler	•	•	•		•	•	
	Mastercycler Gradient	•		•				
	Mastercycler ep	•	•	•		•	•	
	Mastercycler M384							•
"Real Time" Thermal Cyclers	Mastercycler ep Realplex		•				•	
ERICOM								
Thermal Cyclers	Power Block L	•	•	•	•			
	Deltacycler L	•	•	•		•		
	Deltacycler LL	•	•	•	•			
	Single Block	•	•	•		•		
	Twin Block	•	•	•		•		
ESCO								
	Swift	•		•		•		•
FLEXI								
Thermal Cyclers	Gene	•		•		•	•	•
	Genius	•		•		•	•	
G-STORM								
Thermal Cyclers	GS1	•	•	•	•	•		
	GS4	•	•	•	•	•		
	GSX	•	•	•	•	•		
	GSXs	•	•	•	•	•		
MWG								
Thermal Cyclers	Primus 96	•	•	•	•	•	•	
	Primus 384							•
ROCHE								
	Lightcycler 480							•
STRATAGENE								
Thermal Cyclers	Robocycler 96	•				•		
	Robocycler Gradient	•	•	•	•	•	•	
"Real Time" Thermal Cyclers	Mx4000 and Mx 3000	•	•	•	•			
TAKARA								
Thermal Cyclers	TP 240						•	
	TP3000	•	•	•	•	•	•	
TECHNE								
Thermal Cyclers	Touchgene	•	•	•	•	•		
	Cyclogene	•	•	•	•	•		
	Genius	•	•	•	•	•		
	Genius Quad	•	•	•	•	•		
	Genius (TC412)	•	•	•	•	•	•	
	Flexigene	•	•	•	•	•	•	•
	Touchgene X	•	•	•	•	•	•	•
	Touchgene Gradient (TC512)	•	•	•	•	•	•	•
"Real Time" Thermal Cyclers	Quantica		•				•	
THERMO HYBAID								
Thermal Cyclers	PCR Sprit	•	•	•	•	•	•	
	MBS Satalite (Multiblock)	•	•	•	•	•	•	•
	System	•	•	•	•	•	•	•
	Px2 and PxE	•	•	•	•	•	•	•
	PCR Express and Omni-E	•	•	•	•	•	•	•
	Touchdown	•	•	•	•	•	•	•
	OmniGene	•	•	•	•	•	•	•
TRANSGENOMIC								
Sequencers	WAVE System						•	

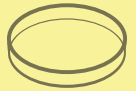
Plates to SBS Specification foot print. Certified Free From DNase, RNase and Detectable DNA.
 This chart is intended as a guide only. Abdos cannot accept any liability or responsibility for information given.
 PCR is a patented process of Roche Holdings.



PETRI DISH

PETRI DISH FEATURES





- Abdos high quality disposable Petri Dishes are suitable for all bacteriological applications.
- 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 and anaerobic application.
- Shallow dish design allow 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 compartment that enable parallel testing of single sample using different agar, solvents and reagents.



Petri Dish - Aseptic

Code	Diameter (mm)	Height (mm)	Compartment	Vented	Packing	No. per Case	Price /Case (₹)	Price /20 Case (₹)
P10901	90	15.80	No	3 Vent	Sleeve of 20	480	2797	52584
P10902	90	15.8 0	No	3 Vent	Individual Wrapped	456	2999	56382
P10903	90	15.80	No	0 Vent	Sleeve of 20	480	2797	52584
P10904	90	15.80	No	0 Vent	Individual Wrapped	456	2999	56382

Petri Dish - Gama Radiated Sterile

Code	Diameter (mm)	Height (mm)	Compartment	Vented	Packing	No. per Case	Price /Case (₹)	Price /20 Case (₹)
P10905	90	15.80	No	3 Vent	Sleeve of 20	480	3086	58017
P10906	90	15.80	No	3 Vent	Sleeve of 10	480	3172	59634
P10907	90	15.80	No	3 Vent	Individual Wrapped	456	3350	62980
P10908	90	15.80	No	0 Vent	Sleeve of 20	480	3086	58017
P10909	90	15.80	No	0 Vent	Sleeve of 10	480	3172	59634
P10910	90	15.80	No	0 Vent	Individual Wrapped	456	3350	62980

* Sterile Petri Dish has been validated according to EN ISO 11137 - 2; 2012 for SAL 10⁻⁶

2 Compartment Petri Dish - Aseptic



Code	Diameter (mm)	Height (mm)	Compartment	Vented	Packing	No. per Case	Price /Case (₹)
P10911	90	15.80	2	3 Vent	Sleeve of 20	480	3588
P10912	90	15.80	2	3 Vent	Individual Wrapped	456	3846
P10913	90	15.80	2	0 Vent	Sleeve of 20	480	3588
P10914	90	15.80	2	0 Vent	Individual Wrapped	456	3846

2 Compartment Petri Dish - Gama Radiated Sterile

Code	Diameter (ml)	Height (mm)	Compartment	Vented	Packing	No. per Case	Price /Case (₹)
P10915	90	15.80	2	3 Vent	Sleeve of 20	480	3977
P10916	90	15.80	2	3 Vent	Individual Wrapped	456	4317
P10917	90	15.80	2	0 Vent	Sleeve of 20	480	3977
P10918	90	15.80	2	0 Vent	Individual Wrapped	456	4317

* Sterile Petri Dish has been validated according to EN ISO 11137 - 2; 2012 for SAL 10⁻⁶

3 Compartment Petri Dish - Aseptic



Code	Diameter(mm)	Height (mm)	Compartment	Vented	Packing	No. per Case	Price /Case (₹)
P10919	90	15.80	3	3 Vent	Sleeve of 20	480	4557
P10920	90	15.80	3	3 Vent	Individual Wrapped	456	4697
P10921	90	15.80	3	0 Vent	Sleeve of 20	480	4557
P10922	90	15.80	3	0 Vent	Individual Wrapped	456	4697

3 Compartment Petri Dish - Gama Radiated Sterile, PS

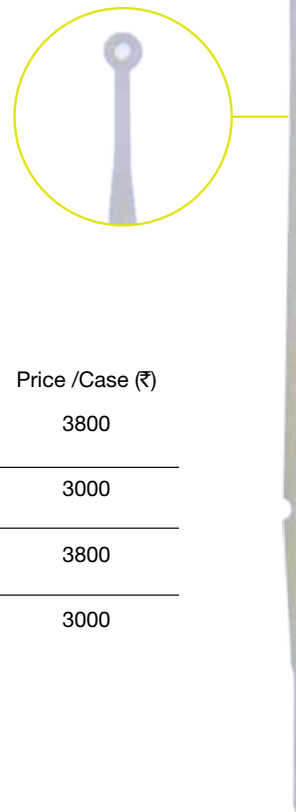
Code	Diameter (mm)	Height (mm)	Compartment	Vented	Packing	No. per Case	Price /Case (₹)
P10923	90	15.80	3	3 Vent	Sleeve of 20	480	5047
P10924	90	15.80	3	3 Vent	Individual Wrapped	456	5458
P10925	90	15.80	3	0 Vent	Sleeve of 20	480	5047
P10926	90	15.80	3	0 Vent	Individual Wrapped	456	5458

* Sterile Petri Dish has been validated according to EN ISO 11137-2; 2007 for SAL 10⁻⁶

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Soft Inoculation Loop Gama Radiated Sterile, ABS

- Smooth surface, provides uniform and gentle streaking without damaging the gel surface.
- Colour coded loop for easy identification.
- Polygonal shaft improves grip, assists orientation and makes operation easy.
- Available in individual wrapped pack and zip lock sleeve that eliminates risk of contamination.



Code	Capacity (µl)	Colour	Length (mm)	Packing	No. Per Case	Price /Case (₹)
P10985	1 µl loop + Incorporated Needle	White	200	Sleeve of 10	1000	3800
P10986	1 µl loop + Incorporated Needle	White	200	Individually Wrapped	500	3000
P10987	10 µl loop + Incorporated Needle	Blue	200	Sleeve of 10	1000	3800
P10988	10 µl loop + Incorporated Needle	Blue	200	Individually Wrapped	500	3000

* Sterile Inoculation Loop has been validated according to EN ISO 11137 - 2; 2012 for SAL 10⁻⁶

84

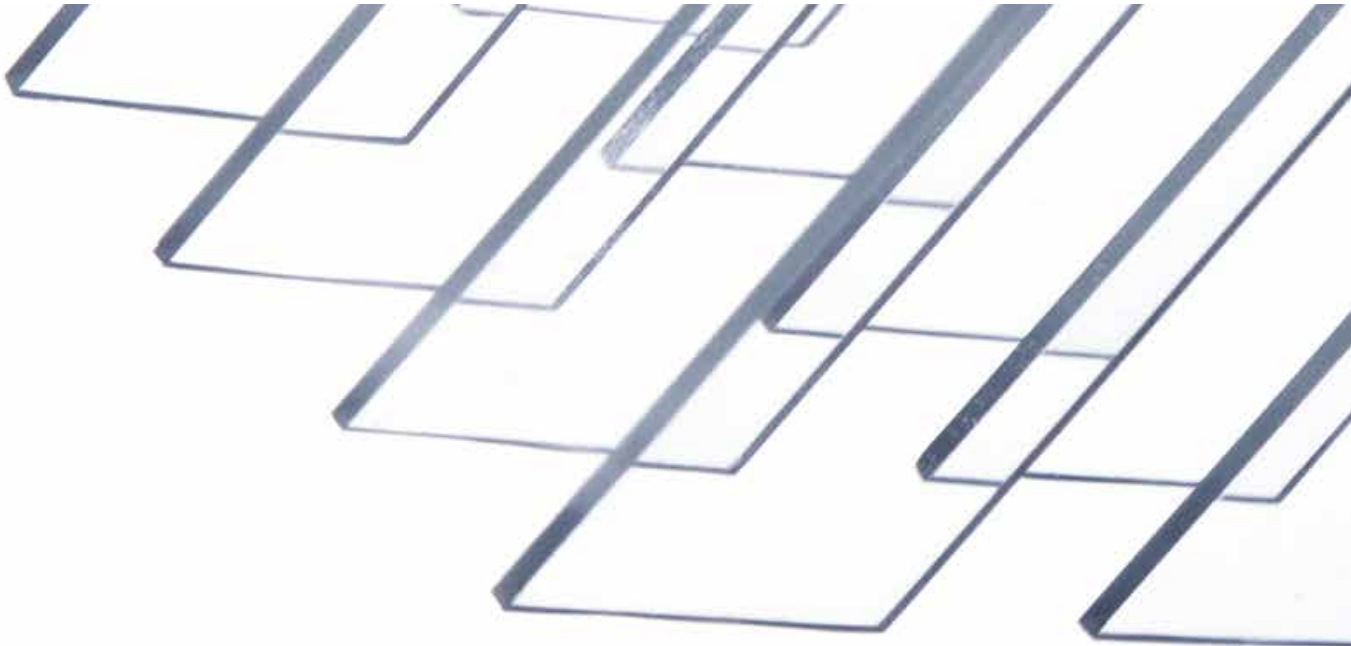
Cell Spreaders Gama Radiated Sterile, PP

- Cell spreaders are designed to spread and disperse liquid onto the surface of an agar plate without gouging or cutting the medium.
- Available in Triangular and T – Shaped.

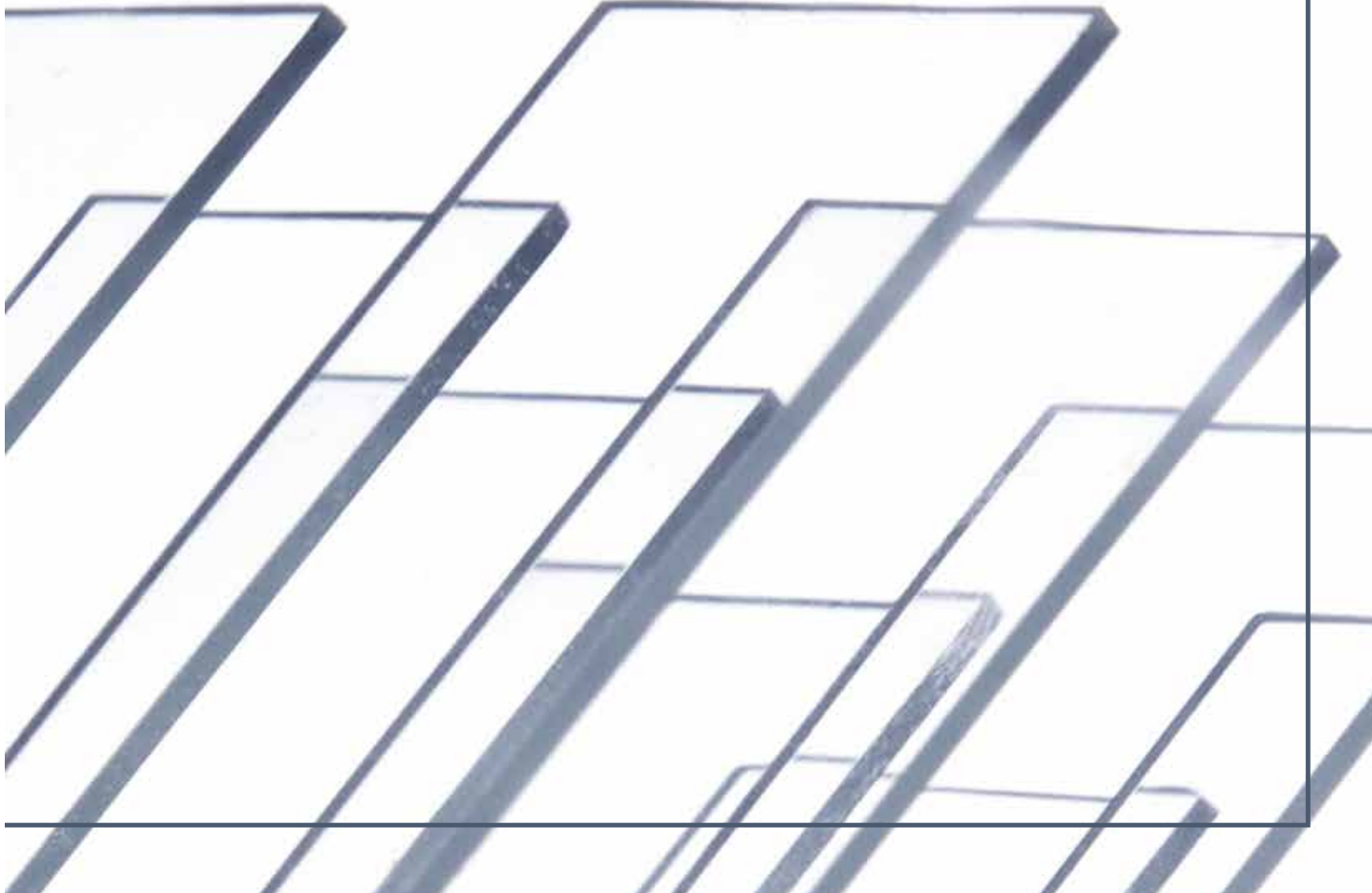


Code	Shape	Length (mm)	Blade Width (mm)	Colour	Packing	No. Per Case	Price / Case (₹)
P10989	Triangle Shaped	215	30	Blue	Individually Wrapped	100	1650
P10990	Triangle Shaped	240	60	Yellow	Individually Wrapped	100	2450
P10991	T - Shaped	140	35	Blue	Individually Wrapped	400	5500

* Sterile Cell Spreaders has been validated according to EN ISO 11137 - 2; 2012 for SAL 10⁻⁶



MICROSCOPY





85

Microscope Slides, Glass

- Abdos slides are manufactured in state of art, precise and automatic production line with updated engineering capability and strict quality standards.
- Abdos slides are made from very uniform, thin and flat glass sheets resistant to corrosion and fogging.
- ISO 8037/1 compliant.
- Designed for routine experiments in histology, pathology, hematology, cytology and microbiology for blood, body liquid tests, frozen tissues section examination, biological specimen preparations.
- Frosted Microscope slides are double side frosted and can be marked with conventional labeling system, pencil or mark pens.
- Frosted area of approx.. 20 mm depth, resistant to all common chemicals and routine stains used in laboratory.
- Available with tissue paper interleaved.



Code	Type	Thickness (mm)	L x W (mm)	Edges	No. per Pack	Price/ Pack	No. Per Case	Price/ Case (₹)
G10101	Plain, Interleaved	1.00 ± 0.2	25 X 75	Ground Edges, 90° Corner	50	80	50 Pack	4000
G10106	Double Frosted, Interleaved	1.00 ± 0.2	25 X 75	Ground Edges, 90° Corner	50	108	50 Pack	5400

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Microscope Cover Glass



- Abdos cover glass is manufactured in state of art, precise and automatic production line with updated engineering capability and strict quality standards.
- These are made from super white glass sheets for best performance.
- Abdos cover glass slides are uniform in flatness and sizes for best performance.
- ISO 8037/1 compliant.
- Designed for manual workflow in histology, cytology, rinalysis and microbiology.
- Free of worn-out edges, oily films and finger prints.
- Available in aluminum tropical pack.
- Available in Square and Rectangular shape.

Code	Type	Thickness (mm)	L x W (mm)	No. per Pack	Price/ Pack	No. Per Case	Price/ Case (₹)
G10107	Square	1.00 (0.13 - 0.16)	18 x 18	1000	875	20 Pack	17500
G10108	Square	1.00 (0.13 - 0.16)	20 x 20	1000	950	20 Pack	19000
G10109	Square	1.00 (0.13 - 0.16)	22 x 22	1000	1046	20 Pack	20920
G10110	Square	1.00 (0.13 - 0.16)	24 x 24	1000	1098	20 Pack	21960
G10111	Rectangle	1.00 (0.13 - 0.16)	22 x 32	1000	1565	20 Pack	31300
G10112	Rectangle	1.00 (0.13 - 0.16)	22 x 40	1000	1769	20 Pack	35380
G10113	Rectangle	1.00 (0.13 - 0.16)	22 x 50	1000	1939	20 Pack	38780
G10114	Rectangle	1.00 (0.13 - 0.16)	22 x 60	1000	2149	20 Pack	42980

87 Coplin Jar, PP

- These Coplin Jars are polypropylene staining jar 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.
- Can be autoclaved.



Code	Places	Height (mm)	No. per Case	Price /Case (₹)
P90101	10	114	12	549



88 Slide Box, ABS

- These slide tray 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.
- Hinged lid gives secure closure to the box.

Code	Places	L x W x H (mm)	No. per Case	Price /Case (₹)
P90103	25	95 x 82 x 32	12	907
P90104	50	199 x 82 x 32	6	757
P90105	100	192 x 162 x 32	6	1473

89 Slide Tray, PS

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



Code	Places	L x W x H (mm)	No. per Case	Price /Case (₹)
P90102	20	300 x 194 x 12	6	2300



90 Slide Dispenser, ABS

- These slide dispensers are suitable for standard 25 x 75 mm slides.
- The overall design of the dispensers makes it easy to load and dispense slides.
- Users can effortlessly turn either side of the wheel to dispense slides one at a time.
- Holds upto 72 pcs of microscope slides



Code	Places	L x W x H (mm)	No. per Case	Price /Case (₹)
P90106	72	120 x120 x163	1	759



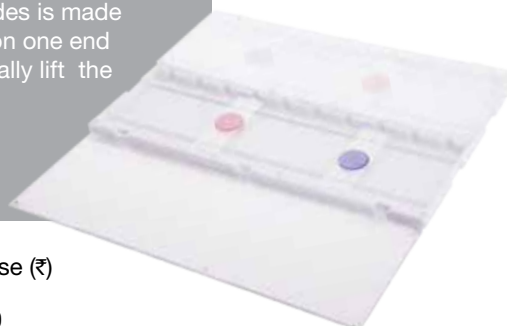
91 Slide Mailer, PP

- These slide mailers 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 (mm)	No. per Case	Price /Case (₹)
P90107	1	85 x 42 x 5	25	198
P90108	2	82 x 70 x 5	25	319
P90109	3	100 x 84 x 5	25	328
P90110	5	82 x 30 x17	25	350

92 Microscope Slide File, HIPS

- These slide file will hold upto 20 standard microscope slides 75 mm x 25 mm.
- These slide file is made of two parts the base holding the slides horizontally in pre-numbered spaces for easy identification and the transparent door which can either cover the slides and allow easy reading of ID labels with or without optical bar code reader.
- Will resist temperature between -80 °C to +80 °C.
- Removal of the slides is made easy by pressing on one end that will automatically lift the other end.



Code	Places	L x W x H (mm)	No. per Case	Price /Case (₹)
P90113	20	192 x 295 x11	10	6400

93 Slide Storage System, HIPS

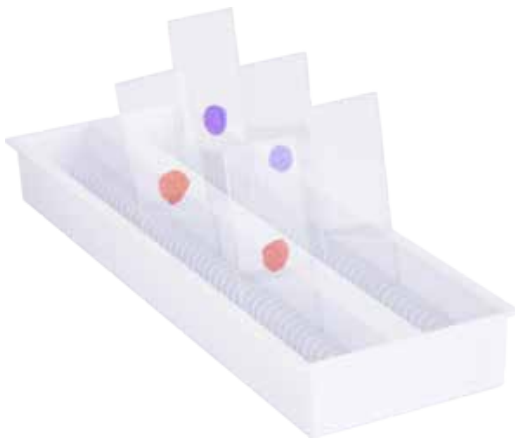
- The most convenient, organized and versatile way of storing 75 x 25 mm microscope slides.
- Slide storage system includes a slide box and a removable tray. Transparent hinged cover makes the contents of the box easy to see at a glance.
- Can withstand temperature between - 80 °C to + 80 °C.
- All slides are stored upright for easier insertion and removal. To easily pick up the slide simply tilt the slides forward and backward with one finger.



Code	Places	L x W x H (mm)	No. per Case	Price /Case ₹
P90111	100	82 x 245 x 86	10	8000

94 Slide Drain Rack, HIPS

- This tray used as drain rack can hold upto 200 microscope slides in 100 individual numbered slots.
- All slides are stored upright for easier insertion and removal.
- To easily pick up the slide simply tilt the slides forward and backward with one finger.



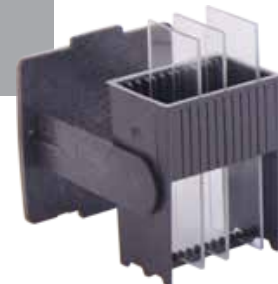
Code	Places	L x W x H (mm)	No. per Case	Price /Case ₹
P90112	100/ 200	75 x 231 x 25	10	2280

95 Slide Staining System, Acetal

- This system has two components a square staining jar and a 12-position vertical slide rack.
- This system is made of acetal plastic and will not break like glass jars.
- Superior chemical resistance.
- The base is wide and offers greater stability while the inside is recessed allowing for a smaller reagent volume of only 80 ml.
- Resist temperature between -150 °C to 121°C
- Can be autoclaved.



Code	Places	L x W x H (mm)	No. per Case	Price /Case ₹
P90114	12	64 x 76 x 92	1 Kit (Staining Jar + Slide Rack)	2000





BOTTLES
& CARBOYS

96

Narrow Mouth Bottle with Sealing Cap, HDPE

- These bottles come with secure sealing cap for better security and long-term storage.
- These bottles are used for packing, shipping and storage purpose.
- Complete emptying is guaranteed by through the inclination of shoulders.
- Superior chemical resistance.
- Suitable for use with food.
- Suitable for storage of low densed liquids.

Code	Capacity (ml)	Mouth Diameter (mm)	Height (mm)	No. per Case	Price / Case (₹)
P11111	50	17.5	84	12	450
P11112	100	17.5	103	12	450
P11113	250	22	136	12	680
P11114	500	22	170	6	410
P11115	1000	22	222	6	590

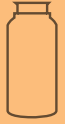


97

Narrow Mouth Bottle Graduated, LDPE

- These bottles come with inner cap for superior sealing and better security.
- Precise graduation allows good view of the product and filling the bottle without the use through volumetric products (like Beakers or Cylinders).
- These bottles are used for packing, shipping and storage purpose.
- Complete emptying is guaranteed by through the inclination of shoulders.
- On the shoulder of the bottle and cap there are holes that allow use of slips or seals extremely useful during transportation.
- Superior chemical resistance.
- Suitable for use with food.
- Suitable for storage of low densed liquids.

Code	Capacity (ml)	Mouth Diameter (mm)	Height (mm)	No. per Case	Price/ Case (₹)
P11121	50	18.5	76	12	540
P11122	100	18.5	115	12	620
P11123	250	23	138	12	790
P11124	500	23	165	6	475
P11125	1000	34.5	213	6	780
P11126	2000	34.5	273	3	750



98

Wide Mouth Bottle with Sealing Cap, HDPE

- These bottles come with secure sealing cap for better security and long-term storage.
- These bottles are used for packing, shipping and storage purpose.
- Complete emptying is guaranteed by through the inclination of shoulders.
- Superior chemical resistance.
- Suitable for use with food.
- Suitable for storage of low densed liquids.

Code	Capacity (ml)	Mouth Diameter (mm)	Height (mm)	No. per Case	Price/ Case (₹)
P11201	250	30	140	12	850
P11202	500	30	179	6	525
P11203	750	30	214	6	640
P11204	1000	30	218	6	700



99

Wide Mouth Bottle Graduated, LDPE

- These bottles come with inner cap for superior sealing and better security.
- Wide mouth allows for easy filling and emptying of the bottle.
- Precise graduation allows good view of the product and filling the bottle without the use through volumetric products (like Beakers or Cylinders).
- These bottles are used for packing, shipping and storage purpose.
- Complete emptying is guaranteed by through the inclination of shoulders.
- On the shoulder of the bottle and cap there are holes that allow use of slips or seals extremely useful during transportation.
- Superior chemical resistance.
- Suitable for use with food.
- Suitable for storage of dense fluids, granulates and powders.



Code	Capacity (ml)	Mouth Diameter (mm)	Height (mm)	No. per Case	Price/ Case (₹)
P11211	50	24	77	12	520
P11212	100	24	89	12	560
P11213	250	34.5	126	12	825
P11214	500	34.5	161	6	450
P11215	1000	45	201	6	775
P11216	2000	45	250	6	1430

100

Wide Mouth Bottle with Handle, HDPE

- These bottles come with inner cap for superior sealing and better security.
- These bottles come with stable carrying handle for easy movement.
- Superior chemical resistance.
- Suitable for use with food.
- Suitable for storage and shipping of liquids, chemicals, standards, granulates and powders.



10 lts



5 lts

Code	Capacity (lts)	Mouth Diameter (mm)	Height (mm)	No. per Case	Price / Case (₹)
P11261	5	88	280	6	3350
P11262	10	88	350	6	4000

101

Wide Mouth Bottle with Handle, HDPE



- These bottles come with inner cap for superior sealing and better security.
- These are very strong and durable for extended use over time.
- These bottles come with stable carrying handle for easy movement.
- Superior chemical resistance.
- Suitable for use with food.
- Suitable for storage and shipping of liquids, chemicals, standards, granulates and powders.

Code	Capacity (lts)	Mouth Diameter (mm)	Height (mm)	No. per Case	Price/ Case (₹)
P11263	5	85	350	6	4500
P11264	10	100	420	6	6000
P11265	15	115	460	3	5000
P11266	20	130	500	3	5800
P11267	25	130	570	3	6800



25 lts



20 lts



15 lts



10 lts



5 lts

102

Jerrican, HDPE



- These jerrican come with secure sealing cap for better security and long-term storage.
- These jerrican are used for storing and shipping reagents, chemicals, culture media, and standards.
- These jerrican come with space saving design and durable molded-in design for better control during pouring.
- Superior chemical resistance.
- Suitable for use with food.



Code	Capacity (lts)	Dimensions (mm)	Mouth Diameter (mm)	Height (mm)	No. per Case	Price / Case (₹)
P11401	1	69 x 118	21	183	3	700
P11402	2	79 x 143	21	235	3	875
P11403	5	120 x 225	44	280	1	550
P11404	10	145 x 275	44	340	1	700
P11405	15	160 x 315	44	390	1	950
P11406	20	170 x 340	44	425	1	1025
P11407	25	195 x 355	44	500	1	1375
P11408	30	195 x 355	44	550	1	1525



103

Jerrican with Stopcock, HDPE

- These jerrican come with secure sealing cap for better security and long-term storage.
- These jerrican are used for storing and shipping reagents, chemicals, culture media, and standards.
- Comes with high quality and durable stopcock or tap for easy withdrawal of liquids, chemicals, reagents, culture media and standards.
- These jerrican come with space saving design and durable molded-in design for better control during pouring.
- Superior chemical resistance.
- Suitable for use with food.



Code	Capacity (lts)	Dimensions (mm)	Mouth Diameter (mm)	Height (mm)	No. per Case	Price/ Case (₹)
P11411	10	150 x 250	44	360	1	1300
P11412	20	180 x 320	46	450	1	2500

104

Aspirator Bottle with Stopcock, HDPE

- These bottles come with secure sealing cap for better security and long-term storage.
- These bottles 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.
- Comes with high quality and durable stopcock or tap for easy withdrawal of liquids, chemicals, reagents, culture media and standards.
- Can be used at temperature below 0° C.
- Superior chemical resistance.
- Suitable for use with food.



Code	Capacity (lts)	Mouth Diameter (mm)	Height (mm)	No. per Case	Price / Case (₹)
P11501	5	51	355	1	1000
P11502	10	51	430	1	1700
P11504	20	51	510	1	2350
P11510	Spare Stopcock	9	NA	1	550



105

Carboy with Stopcock, HDPE

- These carboys come with 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 temperature below 0° C.
- Superior chemical resistance.
- Suitable for use with food.



Code	Capacity (lts)	Mouth Diameter (mm)	Height (mm)	No. per Case	Price/ Case (₹)
P11507	10	51	430	1	1800
P11503	15	51	465	1	2150
P11508	20	51	510	1	2500
P11505	25	80	580	1	3400
P11506	50	80	715	1	4550
P11510	Spare Stopcock	9	NA	1	550

106

Heavy Duty Wide Mouth Carboy with Stopcock, HDPE



- These carboys come with 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.
- Can be used at temperature below 0° C.
- Superior chemical resistance.
- Suitable for use with food.



Code	Capacity (lts)	Mouth Diameter (mm)	Height (mm)	No. per Case	Price / Case (₹)
P11511	30	250	440	1	4700
P11512	50	250	650	1	7000
P11513	100	250	800	1	10500
P11510	Spare Stopcock	9	NA	1	550



107

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 bottle have stable, smooth operated pump trigger and adjustable spray nozzle that can be regulated from finest mist to precise liquid jet.
- Superior chemical resistance.
- Suitable for use with food.



1000 ml

500 ml

Code	Capacity (ml)	No. per Case	Price/ Case (₹)
P11191	500	6	2900
P11192	1000	6	3200
P11200	Spare Pump	1	330

108

Jars with Screw Cap, HDPE

- These jars come with superior sealing for better security.
- Wide mouth allows for easy filling and emptying of the bottle.
- Superior chemical resistance.
- Suitable for use with food.
- Suitable for storage of creams, semi-solids substances, crystals, granulates and powders.

Code	Capacity (ml)	Mouth Diameter (mm)	Height (mm)	No. per Case	Price / Case (₹)
P11601	50	36	60	12	800
P11602	100	36	70	12	850
P11603	250	50	90	12	900
P11604	500	70	103	6	650
P11605	750	70	120	6	750
P11606	1000	86	127	6	930
P11607	2000	86	185	3	625



109

Wide Mouth Jars with Pressure Seal Cap, HDPE

- These jars come with superior sealing for better security.
- The self-sealing pressure cap is tamper proof.
- Wide mouth allows for easy filling and emptying of the bottle.
- Superior chemical resistance.
- Suitable for use with food.
- Suitable for storage of creams, semi-solids substances, crystals, granulates and powders.



Code	Capacity (ml)	Mouth Diameter (mm)	Height (mm)	No. per Case	Price/ Case (₹)
P11611	500	86	74	12	1600
P11612	1000	86	130	12	1950
P11613	1500	86	180	12	2300
P11614	2000	86	185	6	1300



2000 ml

1500 ml

1000 ml

500 ml

GENERAL
LABORATORY
PRODUCTS



110 Beakers without Handle, PP & TPX

- Manufactured in state of the art moulding facility using high purity virgin polypropylene (PP) and polymethylpentene (TPX).
- Used for general laboratory use.
- TPX Beakers have distinct advantage of high transparency and higher chemical resistivity.
- TPX Beakers have higher thermal withstanding 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.
- Can be autoclaved.



Beakers without Handle, PP

Code	Capacity (ml)	Height (mm)	No. per Case	Price /Case (₹)
P50601	50	59	12	212
P50602	100	73	12	238
P50603	250	94	12	425
P50604	500	128	6	331
P50605	1000	150	4	456
P50606	2000	192	4	820
P50607	5000	263	2	1005
P50608	10000	328	1	881



Beakers without Handle, TPX

Code	Capacity (ml)	Height (mm)	No. per Case	Price /Case (₹)
P50701	50	59	12	430
P50702	100	73	12	590
P50703	250	94	12	1255
P50704	500	128	6	1145
P50705	1000	150	4	1175
P50706	2000	192	4	1905
P50707	5000	263	2	1880
P50708	10000	328	1	1880



111

Beakers with Handle, PP & TPX

- Manufactured in state of the art moulding facility using high purity virgin polypropylene (PP) and polymethylpentene (TPX).
- Used for general laboratory use.
- TPX Beakers have distinct advantage of high transparency and higher chemical resistivity.
- TPX Beakers have higher thermal withstanding capacity over PP Beakers.
- Rectangular handle for easy carrying and pouring.
- All sizes have easy to read silk-screened graduations.
- Precise pouring spouts.
- Can be autoclaved.



Beakers with Handle, PP

Code	Capacity (ml)	Height (mm)	No. per Case	Price /Case (₹)
P50802	100	73	6	186
P50803	250	94	6	321
P50804	500	128	6	580
P50805	1000	150	4	779
P50806	2000	192	4	1173
P50807	5000	263	2	1277
P50808	10000	330	1	1248



10000 ml



5000 ml



2000 ml



1000ml



500 ml



250 ml



100 ml



10000 ml



5000 ml



2000 ml



1000ml



500 ml



250 ml



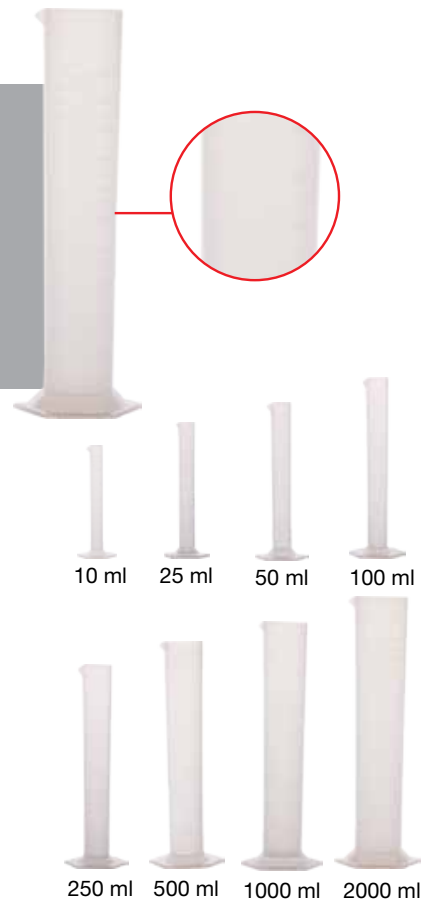
100 ml

Beakers with Handle, TPX

Code	Capacity (ml)	Height (mm)	No. per Case	Price /Case (₹)
P50902	100	73	6	408
P50903	250	94	6	737
P50904	500	128	6	1327
P50905	1000	150	4	1567
P50906	2000	192	4	2301
P50907	5000	263	2	2009
P50908	10000	330	1	1977

112 Measuring Cylinder, PP Class "B"

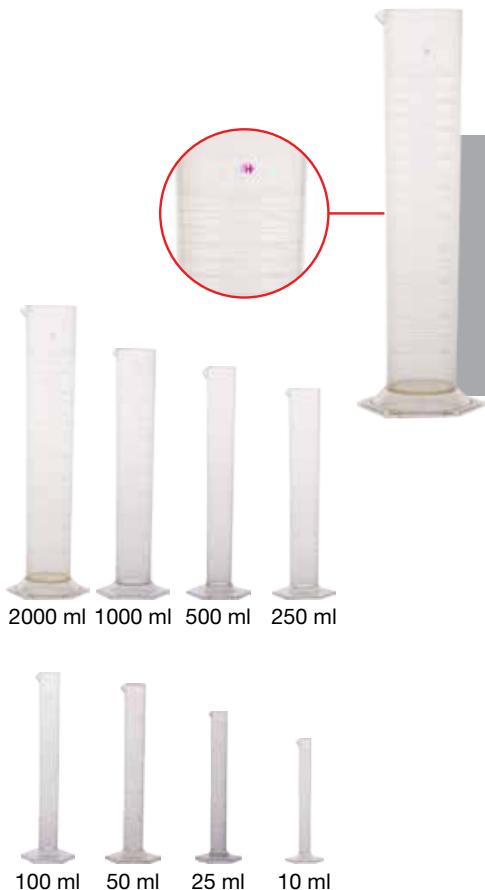
- Molded in large, easy to read graduations.
- Molded in highest quality translucent virgin polypropylene.
- Cylinders have generous pour spout for smooth flow of liquid during pouring.
- Hexagonal shape gives stability to the base.
- Can be autoclaved.
- Meets accuracy requirements of class B under "DIN 1261/ISO 6706"



Code	Capacity (ml)	Sub division (ml)	Error limit (ml)	Height (mm)	No. per Case	Price/ Case (₹)
P50301	10	0.2	±0.2	138	12	1365
P50302	25	0.5	±0.5	170	12	1625
P50303	50	1	±1	198	12	1850
P50304	100	1	±1	257	6	1180
P50305	250	2	±2	314	6	1900
P50306	500	5	±5	344	3	1230
P50307	1000	10	±10	412	3	1595
P50308	2000	20	±20	482	3	3825

113 Measuring Cylinder, TPX Class "B"

- These transparent graduated cylinders have excellent value.
- Molded 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
- Can be autoclaved.
- Meets accuracy requirements of class B under "DIN 1261/ ISO 6706".



Code	Capacity (ml)	Sub division (ml)	Error limit (ml)	Height (ml)	No. per Case	Price/ Case (₹)
P50401	10	0.2	±0.2	138	12	2140
P50402	25	0.5	±0.5	170	12	2864
P50403	50	1	±1	198	12	3282
P50404	100	1	±1	257	6	2018
P50405	250	2	±2	314	6	3225
P50406	500	5	±5	344	3	2395
P50407	1000	10	±10	412	3	4000
P50408	2000	20	±20	482	3	6435

Measuring Cylinder, TPX Class "A"



- These transparent graduated cylinders have excellent value.
- Molded 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.
- Autoclaving at 121°C does not affect accuracy.
- Meets accuracy requirements of class A under "DIN 12681".
- Supplied with conformity test certificate that indicates batch number and year of production that is also marked on the cylinder.



Code	Capacity (ml)	Sub division (ml)	Error limit (ml)	Height (mm)	No. per Case	Price/ Case (₹)
P50501	10	0.2	±0.1	138	1	575
P50502	25	0.5	±0.25	170	1	655
P50503	50	1	±0.5	198	1	755
P50504	100	1	±0.5	257	1	945
P50505	250	2	±1	314	1	1465
P50506	500	5	±2.5	343	1	2175
P50507	1000	10	±5	412	1	3150
P50508	2000	20	±10	482	1	5220



Scoop, HDPE



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

Code	Capacity (ml)	Total Length (mm)	No. per Case	Price / Case (₹)
P11901	100	180	12	2000
P11902	250	240	12	2600
P11903	500	300	6	1865
P11904	1000	360	6	2200
P11905	2500	400	3	1800

116

Assorted Workstation Storage Bin, Acrylic

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



Code	No. of Compartment	L x W x H (mm)	No. per Case	Price /Case (₹)
P70104	5	255 x 135 x 368	1	4850

117

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 struck on to the wall.

Code	Size	L xW x H (mm)	No. per Case	Price /Case (₹)
P70101	Small	200 x 140 x 190	1	2388
P70102	Large	200 x 140 x 275	1	2625

118

Workstation Storage 3 Compartment, Acrylic

- Ideal for storing and dispensing small laboratory product such as Pipette tips, Pasture Pipette, Micro Centrifuge Tubes.
- Removable to cover allow easy filling into 3 separate compartments.
- Hinged opening at the front to take out items from the bin.
- Holes at the back of each compartment help it to be placed or struck on to the wall.
- Fills, protect and dispenses three supplies.
- Easy to move, easy to load, easy to use.



Code	No. of Compartment	L x W x H (mm)	No. per Case	Price /Case (₹)
P70103	3	410 x 200 x 190	1	5824



119

Bench Top Beta Shield, Acrylic

- Abdos Beta Shield are designed to be used in the laboratory during procedure that handle β -emitting isotopes.
- Thickness 11 mm.
- These Beta Shield protect the lab work and its angled top allow contents of the tube located behind the shield to be viewed from the top.
- The base of the Beta Shield provides a large flat work surface and minimizes the risk of “hot spots” on the lab bench.



Code	L xW x H (cm)	No. per case	Price/Case (₹)
P70105	45 x 30 x 30	1	5500



120

Drying Rack

- These Drying are used for draining and drying test tubes, beakers, flasks and other labware.
- There are 55 pegs in the rack, 50 smaller pegs for products with small diameter and 5 large bracket designed to hold Erlenmeyer flasks, beakers etc.
- The pegs are plastic coated for better protection.
- The rack can be placed on the rack, on the table or near a sink.
- The rack comes with a tray at the bottom in order to avoid drops on the surface or table.

Code	Places	L x W x H (mm)	No. per Case	Price /Case (₹)
P20302	55 places	160 X 360 x 650	1	3000

121

Ice Bucket, Polyurethane

- Durable black skinned polyurethane foam ice buckets unbreakable in normal use.
- Suitable for use with-ice, dry-ice and salt solutions.
- Supplied with lids.
- Integral handles allow easy lifting and carrying.
- Octagonal shape for easy stacking and stability



Code	Capacity (ml)	L x W x H (mm)	No. per Case	Price /Case (₹)
P20301	4500	330 x 280 x 185	1	6000

122

Micro Magnetic Stirrer Bar, PTFE/Alnico v Magnet

- 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.
- For use in small vessels, e.g. test tubes, vials etc.



Code	OD (Ø) x L (mm)	No. per Case	Price /Case (₹)
P80101	2 x 7	5	765
P80102	3 x 10	5	765

123

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. per Case	Price /Case (₹)
P80103	4.5 x 15	10	1005
P80124	6 x 12	10	1123
P80104	6 x 20	10	1235
P80123	6 x 25	10	1360
P80105	6 x 30	10	1483
P80125	8 x 13	10	1430
P80106	8 x 40	10	1786
P80107	8 x 50	10	2021
P80126	10 x 25	10	1740
P80108	10 x 60	5	1658
P80109	10 x 70	5	1711
P80127	13 x 75	2	1430



124

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. per Case	Price /Case (₹)
P80110	6 x 20	10	1040
P80111	6 x 30	10	1176
P80112	8 x 40	10	1318
P80113	8 x 50	10	1683
P80114	10 x 70	10	2831



125

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 (Ø) x L (mm)	No. per Case	Price /Case (₹)
P80115	8 x 13	10	1234
P80116	8 x 25	10	1308
P80117	8 x 38	10	1630
P80128	8 x 51	10	1795
P80129	8 x 64	10	2537
P80118	10 x 51	10	2469
P80119	12 x 75	10	4152



126

Triangular Magnetic Stirrer Bar, PTFE/Alnico v Magnet

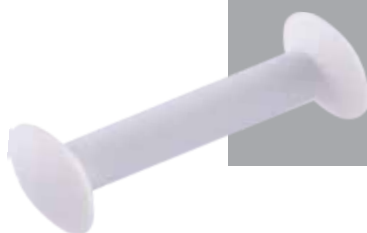
- Ideal for mixing difficult solutions e.g. dissolving solvents or mixing sediments.
- Spins well giving the best possible mixing action.
- For the stirring of liquids on magnetic stirrers and hot plates stirrers.
- Strong alloy magnets sheathed in pure white inert PTFE.
- Resistant to virtually all chemical attack and temperatures up to 260°C.



Code	H (Ø) x L (mm)	No. per Case	Price /Case (₹)
P80130	14 x 25	2	1030
P80131	14 x 40	2	1225
P80132	14 x 55	2	1380

127

Double-Ended Magnetic Stirrer Bars, PTFE/Alnico v Magnet



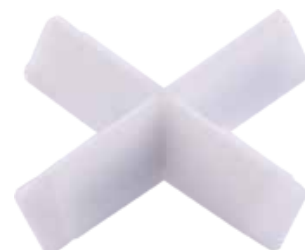
- Double ended stirrer bars have double paddle action for efficient stirring plus high stability.
- Strong alloy magnets sheathed in pure white inert PTFE.
- Resistant to virtually all chemical attack and temperatures up to 260°C.

Code	H (Ø) x L (mm)	No. per Case	Price /Case (₹)
P80133	8 x 35	5	2169
P80134	8 x 55	5	2615

128

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 quiet operation.
- Strong alloy magnets sheathed in pure white inert PTFE.
- Resistant to virtually all chemical attack and temperatures up to 260°C.



Code	H (Ø) x L (mm)	No. per 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.	3141



EQUIPMENT

SWIRLTOP – Ultra Flat Magnetic Stirrer

- This ultra flat magnetic stirrer used in biotech labs provides better mixing and is ideal for application of physical and 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.
- Slip proof and stable.

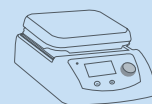
Specifications

Voltage	220-240V
Frequency	50Hz
Speed Range	15 – 1500 rpm
Max. Stirring Quantity	0.8 L
Max Load Capacity	2 Kg
Dimensions of work plate	90 x 90 mm
Dimensions	175 x 120 x 15 mm
Weight	0.3 kg
Permissible ambient Temperature	5 - 45° C
Permissible ambient	80%



Code	Product	Workplate Size (cm)	No. per Case	Price /Case (₹)
E11307	Ultra Flat Magnetic Stirrer	9 x 9	1	10500

SWIRLTOP - Analog Magnetic Stirrer & Hot Plate



- Swirl Top unit feature an extremely durable, chemical resistant white ceramic work surface.
- Swirl Top has advanced microprocessor control with convenient turn knobs that allow quick, precise adjustment and maintains accurate temperature and speed.
- Swirl Top is compatible with a wide variety of popular glass beakers, flasks, bottles and vessels.
- E11215 comes complete with support rod for mounting thermometers and temperature probes.

Specifications

Voltage	220 - 240 V
Frequency	50 Hz
Shaking Movement	Orbital
Temperature Range	80 – 380° C
Speed Range	60 – 1500 rpm
Dimension	200 x 230 x 115 mm
Weight	4 kg
Permissible ambient temperature	5 – 45° C
Permissible relative humidity	80%



Code	Product	Top Plate Size (cm)	No. per Case	Price / Case (₹)
E11211	Magnetic Stirrer	19 x 19	1	17170
E11213	Hot Plate	19 x 19	1	17170
E11215	Magnetic Stirrer & Hot Plate	19 x 19	1	22915



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Swirltop – Digital (LCD) Magnetic Stirrer & Hot Plate

- Swirl Top unit feature an extremely durable, chemical resistant white ceramic work surface.
- Swirl Top has advanced microprocessor control with convenient turn knobs that allow quick, precise adjustment and maintains accurate temperature and speed.
- Large, backlit LCD display provide constant visualization of speed and temperature while safety LED indicates when the top plate is above 50°C
- This digital system is compatible with a wide variety of popular glass beakers, flasks, bottles and vessels.
- Optional probe is available to derive precise temperature control. When connected the probe provides direct feedback to the microprocessor that continuously adjusts and maintains the selected temperature in the sample within accuracy of $\pm 0.5^{\circ}\text{C}$

Specifications

Voltage	220 - 240 V
Frequency	50 Hz
Shaking Movement	Orbital
Temperature Range	5 – 380° C
Speed Range	200 – 1500 rpm
Dimension	177 x 267 x 102 mm
Weight	2.2 kg
Permissible ambient temperature	5 – 45° C
Permissible relative humidity	80%

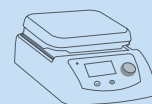


Code	Product	Workplate Size (cm)	No. per Case	Price /Case (₹)
E11225	Digital Magnetic Stirrer	16.5 x 16.5	1	18500
E11226	Digital Hot Plate	16.5 x 16.5	1	18500
E11227	Digital Magnetic Stirrer & Hot Plate	16.5 x 16.5	1	27000

Spare Accessories

Code	Product	No. per Case	Price /Case (₹)
E11228	Support Rod	1	4800
E11229	External Temperature Probe	1	9000

SWIRLTOP – DIGITAL (LED) Digital Magnetic Stirrer & Hot Plate



- Swirl Top unit feature 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 $\pm 0.5^{\circ}\text{C}$
- 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 allow quick, precise adjustment and maintains accurate temperature and speed.
- Large, backlit LED display provide constant visualization of speed and and temperature with 50°C HOT warning indicator.
- This digital system is compatible with a wide variety of popular glass beakers, flasks, bottles and vessels.
- Heat resistant ABS casing.

Specifications

Voltage	220 - 240 V
Frequency	50 Hz
Motor Type	DC Motor
Shaking Movement	Orbital
Temperature Range	Room Temperature- 280°C
Speed Range	100 – 1500 rpm
Maximum Stirring Quantity	3L
Work Plate Dimensions	Diameter 5 inch
Dimension	150 x 260 x 80 mm
Weight	1.8 kg
Permissible ambient temperature	$5 - 45^{\circ}\text{C}$
Permissible relative humidity	80%



Code	Product	Workplate Size (\varnothing cm)	No. per Case	Price /Case (₹)
E11231	LED Digital Magnetic Stirrer & Hot Plate	13.5	1	20490

Spare Accessories

Code	Product	No. per Case	Price /Case (₹)
E11232	SP / Support Rod	1	3600
E11233	ETP / External Temperature Probe	1	7500

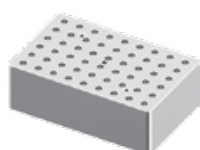
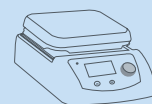
HOTBLOCK - LED Digital Dry Bath

- Abdos LED Digital Dry Bath is ideal for molecular biology, histology, clinical, environmental and industrial laboratories, 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.
- In-built over temperature protection.
- Various optional blocks are available for best performance.
- Protection class according to DIN EN 60529.

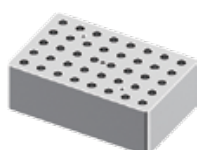
Specifications

Voltage	220 - 240 V
Frequency	50 Hz
Power	160 W
Dimension of Blocks	150 x 95 mm
Heating Temperature Range	+5 – 120° C
Control Accuracy	± 0.5° C
Safety Temperature	140° C
Timer	Yes
Time Setting Range	1 – 99h59min
Operation Type	Continuous / timed operation
Dimension	175 x 290 x 85 mm
Weight	1.6 kg (without heating block)
Permissible ambient temperature	5 – 45° C
Permissible relative humidity	80%

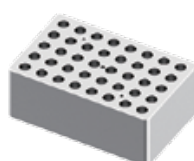




E11331



E11332



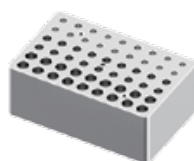
E11333



E11334



E11335



E11336

Code	Product	Block Size (cm)	No. per Case	Price / Case (₹)
E11330	LED Digital Dry Bath	15 x 9.5	1	35000

Spare Accessories

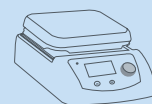
Code	Product	Places	No. per Case	Price / Case (₹)
E11331	Heating Block for 0.2 ml	54	1	12300
E11332	Heating Block for 0.5 ml	40	1	12300
E11333	Heating Block for 1.5/2.0 ml	40	1	12300
E11334	Heating Block for 5/15 ml	28	1	12300
E11335	Heating Block for 50 ml	8	1	12300
E11336	Heating Block for 0.2, 0.5, 1.5/2.0 ml	18	1	12300

SWIRLEX – LCD Digital Overhead Stirrer

- 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 hallmark.
- Digital LCD display for precise monitoring of set and actual speed.
- LCD torque displays real time information on viscosity changes.
- Protection and safety circuits ensures 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 via RS232 interface.

Specifications	E11310	E11311
Voltage	220-240V	220- 240 V
Frequency	50Hz	50Hz
Power	70 W	130 W
Speed Range	50 – 2200 rpm	50 – 2200 rpm
Overload Protection	LED lights, motor automatically stops	LED lights, motor automatically stops
Motor Protection	LED lights, motor automatically stops	LED lights, motor automatically stops
Speed Display Accuracy	± 3 rpm	± 3 rpm
Max. Stirring Quantity	20 L	40 L
Max Torque	40 Ncm	60 Ncm
Max Viscosity	10000 mPas	50000 mPas
Chuck range diameter	0.5 – 10 mm	0.5 – 10 mm
Dimensions	83 x 220 x 186 mm	83 x 220 x 186 mm
Weight	2.6 kg	2.8 kg
Permissible ambient Temperature	5 - 45°C	5 - 45°C
Permissible ambient	80%	80%
Protection class according	IP42	IP42





E11312



E11313



E11314



E11315



E11316



E11317



E11318



E11318



E11319

Code	Product	Maximum Stirring Quantity (Lts)	No. per Case	Price /Case (₹)
E11310	Digital Overhead Stirrer	20	1	66000
E11311	Digital Overhead Stirrer	40	1	79000

Spare Accessories

Code	Product	Dimensions (cm)	No. per Case	Price /Case (₹)
E11312	Universal Plate Stand including support holder and fixing device	20 x 31 (L x W)	1	10000
E11313	Stainless Steel Crossed Stirrer	40 x 5 (L x Ø)	1	1150
E11314	Stainless Steel Straight Stirrer	40 x 6 (L x Ø)	1	2900
E11315	Stainless Steel Blade Stirrer	40 x 6.8 (L x Ø)	1	2900
E11316	Stainless Steel Centrifugal Stirrer	40 x 9 (L x Ø)	1	2900
E11317	PTFE Crossed Stirrer	35 x 6.5 (L x Ø)	1	4500
E11318	PTFE Straight Stirrer	35 x 7 (L x Ø)	1	4500
E11319	PTFE Blade Stirrer	35 x 6.8 (L x Ø)	1	4500
E11320	PTFE Centrifugal Stirrer	35 x 8.5 (L x Ø)	1	4500

*E11310 & E11311 does not include universal plate stand.

SWIRLEX - Vortex Shaker

- Swirlex is suitable for touch or continuous operation.
- Swirlex vortex shaker is used for gentle mixing to vigorous resuspension of cells biological and canonical liquid components in tubes using eccentric mechanism.
- Swirlex has a wide speed range of 0-2500 rpm.
- Built from sturdy cast casing.
- Swirlex vortex shakers contain specially designed silicone feet and steel base excellent for damping vibration.
- Swirlex is eccentric with oilless ball bearings.

Specifications

Voltage	220-240 V
Frequency	50 Hz
Power	60 W
Shaking Movement	Orbital
Outer Diameter	4 mm
Speed Range	0-2500 rpm
Speed Display	Analog Type
Run Type	Continuous / touch operation
Dimension	127x130 x160mm
Weight	3.5 kg
Permissible ambient temperature	5-45° C
Permissible relative humidity	80%

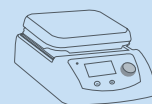


Code	Product	No. per case	Price /Case (₹)
E11190	Swirlex - Adjustable Vortex Shaker	1	9384

Spare Accessories

Code	Product	No. per case	Price /Case (₹)
E11191	Tube holding rod	1	3555
E11192	Universal 100 mm top plate with 4 vacuum suction feet	1	1030
E11198	Platform pad for tubes and vessels Ø 99 mm	1	1339
E11197	Tube adapter for 48 holes test tubes Ø 6 mm	1	1339
E11193	Tube adapter for 18 holes test tubes Ø 10 mm	1	1339
E11194	Tube adapter for 12 holes test tubes Ø 12 mm	1	1339
E11195	Tube adapter for 8 holes test tubes Ø 16 mm	1	1339
E11196	Tube adapter for 8 holes test tubes Ø 20 mm	1	1339

*E11192 is required to run Abdos E11197, E11193, E11194, E11195 & E11196 adapters.



- Swirlmax is a classic tube roller that can be used for rocking and rolling for complete mixing.
- Swirlmax is ideal for mixing blood samples, viscous substances and liquid-solid suspensions
- Swirlmax is used in variety of applications, prevention of blood coagulation and immune precipitation
- Swirlmax has a total of six roller with small footprints and it is very easy to clean.
- Swirlmax has a quite DC brushless motor which is reliable, sound and maintenance free.
- Swirlmax can be used in cold rooms or in incubators.



Specifications

Voltage	220-240V
Frequency	50Hz
Power	25 W
Motor Type	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	450 x 260 x 120 mm
Weight	4.5 kg
Permissible ambient Temperature	5-45° C
Permissible ambient Humidity	80%

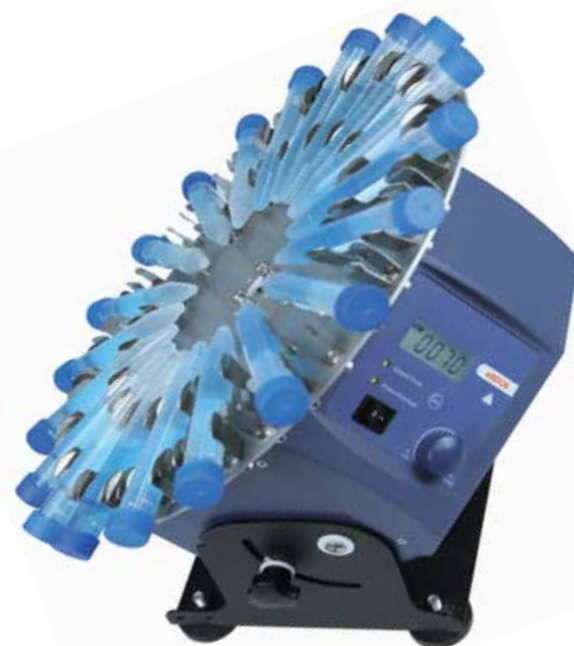
Code	Product	No. per Case	Price /Case (₹)
E11230	Tube Roller	1 nos.	18591

WAVEX – TUBE ROTATOR

- Wavex tube rotators 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 tube rotator has a disk type design.
- LCD displays and digital speed control allows procedures to be accurate.
- Wavex tube rotator has a dual dish accessories for larger tubes.

Specifications

Voltage	220-240V
Frequency	50Hz
Power	40 W
Motor Type	DC Motor
Tilt Angle	0 - 90°
Speed Range	0 - 70 rpm
Speed & Timer Display	LCD
Time Setting Range	1 - 1199 min
Operation Type	Continuous / timed operation
Dimensions	280 x 210 x 300 mm
Weight	8 kg
Permissible ambient Temperature	5-45° C
Permissible ambient Humidity	80%



E11271



E11272



E11273

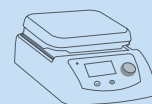


E11274

Code	Product	No. per Case	Price / Case (₹)
E11270	Wavex- Tube Rotator	1	34500

Spare Accessories

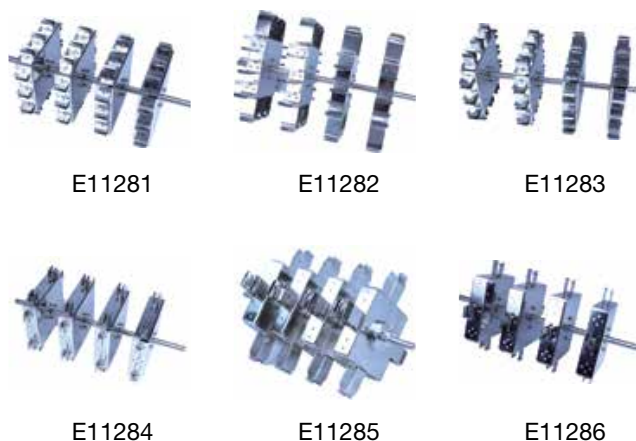
Code	Product	No. per Case	Price / Case (₹)
E11271	Disk accessory for 1.5 ml x 60 micro centrifuge tubes	1	5200
E11272	Disk accessory for 50 ml x 8 centrifuge tubes	1	4000
E11273	Disk accessory for 15 ml x 16 tubes	1	4000
E11274	Disk support rods used with disk accessories	4	2075



- Wavex rotating mixer give gentle but effective mixing of biological samples to be held in 1.5ml 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.

Specifications

Voltage	220-240V
Frequency	50Hz
Power	40
Motor Type	DC Motor
Tilt Angle	0 - 90°
Speed Range	0 - 70rpm
Speed & Timer Display	LCD
Time Setting Range	1 - 1199
Operation Type	Continuous / timed operation
Dimensions	220 x 510 x 260 mm
Weight	8 kg
Permissible ambient Temperature	5-45° C
Permissible ambient Humidity	80%



E11281

E11282

E11283

E11284

E11285

E11286

Code	Product	No. per Case	Price /Case (₹)
E11280	Wavex- Rotating Mixer	1	35800

Spare Accessories

Code	Product	No. per Case	Price /Case (₹)
E11281	Rotisserie accessory for 1.5 ml x 48 micro centrifuge tubes horizontally	1	5200
E11282	Rotisserie accessory for 50 ml x 24 centrifuge tubes horizontally	1	6000
E11283	Rotisserie accessory for 15 ml x 24 centrifuge tubes horizontally	1	6000
E11284	Rotisserie accessory for 1.5 ml x 32 micro centrifuge tubes vertically	1	6000
E11285	Rotisserie accessory for 50 ml x 16 centrifuge tubes vertically	1	6000
E11286	Rotisserie accessory for 15 ml x 16 centrifuge tubes vertically	1	6000
E11274	Disk support rods used with disk accessories	4	2075

WAVEMAX - ROCKING SHAKER

- Abdos Rocking Shaker is designed to provide precise speed and tilt angles required for broad range of molecular and biological mixing application.
- Abdos Rocking Shakers are used for staining and destaining gel, hybridization procedure, haematology and blotting techniques.
- The speed and tilt is adjustable for a wide range of applications.
- These are safe to be used in cold room and incubator.
- Abdos Rocking Shaker have a unique dual platform accessory which can be brought separately to double work surface.



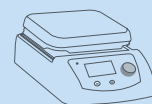
Specifications

Voltage	220-240 V
Frequency	50 Hz
Shaking Movement	Rocking (2 Dimensional)
Speed Range	2 – 30 rpm, Variable
Tilt Angle	0° - 30°, Variable
Load Capacity	Maximum 2.3 kg
Dimension	350 x 300 x 200 mm
Weight	3.4 kg
Permissible ambient temperature	4 – 45° C
Permissible relative humidity	80%

Code	Product	Platform Size (cm)	No. per Case	Price / Case (₹)
E11240	WAVEMAX- Rocking Shaker with flat mat	35 x 30	1	35000

Spare Accessories

Code	Product	No. per Case	Price / Case (₹)
E11241	Staking Platform with Flat Mat with 3 feet clearance	1	5000
E11242	Dimpled Mat	1	1700
E11243	Bungee Cord to secure vessels	4	1500



- Abdos Dancing Shaker is designed to provide precise speed and tilt angles required for broad range of molecular and biological mixing application.
- Abdos Dancing Shakers are used for staining and destaining gel, mixing of lab samples and blotting techniques.
- Abdos Dancing Shaker has a unique Instant Tilt technology wherein the user can simply grip the platform with two hands and move it to the desired position without any tool and disassembly.
- These are safe to be used in cold room and incubator.
- Abdos Rocking Shaker have a unique dual platform accessory which can be brought separately to double work surface.

Specifications

Voltage	220-240 V
Frequency	50 Hz
Shaking Movement	Dancing (3 Dimensional)
Speed Range	2 – 30 rpm, Variable
Tilt Angle	0° - 30° Variable
Load Capacity	Maximum 2.3 kg
Dimension	300 x 300 x 200 mm
Weight	3.4 kg
Permissible ambient temperature	4 to +45° C
Permissible relative humidity	80%



Code	Product	Platform Size (cm)	No. per Case	Price /Case (₹)
E11250	WAVEMAX – Dancing Shaker with flat mat	30 x 30	1	35000

Spare Accessories

Code	Product	No. per Case	Price /Case (₹)
E11251	Staking Platform with Flat Mat with 3 feet clearance	1	5000
E11252	Staking Platform with Dimpled Mat with 3 feet clearance	1	5000
E11243	Bungee Cord to secure vessels	4	1500

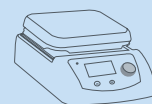
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WAVEMAX - Classic Rocking Shaker & LCD Digital Rocking Shaker

- Abdos rocking shakers are used for staining and destaining gel, hybridization procedure, hematology and blotting techniques.
- Abdos digital rocking shaker 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.
- Special designed and developed compact space-saving design fits easily in the incubator.
- Abdos rocking shaker is designed to provide precise speed and tilt angles required for broad range of molecular and biological mixing applications.
- Space Accessories have wide range of platforms for use with variety of vessels.
- Multi voltage

Specifications	E11401	E11410
Voltage	220-240V	220 – 240V
Frequency	50Hz	50Hz
Power	20W	50W
Motor Type	DC Motor	DC Motor
Rocking Motion	See-saw rocking	See-saw rocking
Maximum load capacity (with platform)	3 kg	10 kg
Tilt Angle	7°	9°
Speed Range	0 - 80 rpm	10 – 70 rpm
Speed & Timer Display	Analog	LCD
Time Range	NA	1 min – 19h59min
Operation Type	Continuous operation	Continuous /timed operation
Dimensions	270 x 330 x 130 mm	360 x 410 x 200
Weight	3.2 kg	9 kg
Permissible ambient Temperature	5-45° C	5-45° C
Permissible ambient Humidity	80%	80%





Fixing Clamps



Universal attachment with bars



Dish attachment with non-slip mat

Classic Rocking Shaker

Code	Product	No. per Case	Price /Case (₹)
E11401	Wavemax – Classic Rocking Shaker with flat mat	1	40000

LCD Digital Rocking Shaker

Code	Product	No. per Case	Price /Case (₹)
E11410	Wavemax – Digital Rocking Shaker with flat mat	1	87000

Spare Accessories for Rocking Shaker

Code	Product	No. per Case	Price /Case (₹)
E11411	Universal attachment with 4 Bars	1	10500
E11413	Dish attachment with non-slip mat & fixed string	1	9500
E11414	Fixing clip attachment	1	7000
E11415	Fixing clip for for 25 ml flask	1	900
E11416	Fixing clip for for 50 ml flask	1	900
E11417	Fixing clip for for 100 ml flask	1	900
E11418	Fixing clip for for 200/250 ml flask	1	1700
E11419	Fixing clip for for 500 ml flask	1	1700

* Pls note E11414 is required to run E11415, E11416, E11417, E11418 & E11419.

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WAVEMAX – Classic Dancing (3D) Shaker & LCD Digital (3D) Dancing Shaker

- Abdos dancing shakers are used for staining and destaining gel, hybridization procedure, hematology 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 LCD dancing shaker 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.
- Special designed and developed compact space-saving design fits easily in the incubator.
- Space Accessories have wide range of platforms for use with variety of vessels.
- Multi voltage

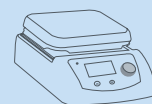
Specifications

E11420

E11430

Specifications	E11420	E11430
Voltage	220-240V	220 – 240V
Frequency	50Hz	50Hz
Power	20W	50W
Motor Type	DC Motor	DC Motor
Rocking Motion	3 Dimensional Orbital	3 Dimensional Orbital
Maximum load capacity (with platform)	3 kg	5 kg
Tilt Angle	7°	9°
Speed Range	0 - 80 rpm	10-70 rpm
Speed & Timer Display	Analog	LCD
Time Range	NA	1 min – 19h59min
Operation Type	Continuous operation	Continuous/ timed operation
Dimensions	270 x 330 x 130 mm	360 x 430 x 106 mm
Weight	2.7 kg	9 kg
Permissible ambient Temperature	5-45° C	5-45° C
Permissible ambient Humidity	80%	80%





Fixing Clamps



Universal attachment with bars



Dish attachment with non-slip mat

Classic Dancing (3D) Shaker

Code	Product	No. per Case	Price /Case (₹)
E11420	Wavemax – Classic Dancing Shaker with flat mat	1	40000

LCD Digital Dancing (3D) Shaker

Code	Product	No. per Case	Price /Case (₹)
E11430	Wavemax – Digital Dancing Shaker with flat mat	1	87000

Spare Accessories for Dancing Shaker

Code	Product	No. per Case	Price /Case (₹)
E11411	Universal attachment with 4 Bars	1	10500
E11413	Dish attachment with non-slip mat & fixed string	1	9500
E11414	Fixing clip attachment	1	7000
E11415	Fixing clip for for 25 ml flask	1	900
E11416	Fixing clip for for 50 ml flask	1	900
E11417	Fixing clip for for 100 ml flask	1	900
E11418	Fixing clip for for 200/250 ml flask	1	1700
E11419	Fixing clip for for 500 ml flask	1	1700

* Pls note E11414 is required to run E11415, E11416, E11417, E11418 & E11419.

WAVEMAX - Classic Orbital & Linear Shaker

- Abdos orbital and linear shakers are capable of mixing and shaking liquids in bottles, flasks, vessels, test tubes and dishes.
- Continuous operation with speed range of 0 – 200 rpm.
- Special designed and developed compact space-saving design fits easily in the incubator and refrigerator.
- Space Accessories have wide range of platforms for use with variety of vessels.
- Multi voltage

Specifications	E11440	E11450
Voltage	220-240V	220 – 240V
Frequency	50Hz	50Hz
Power	30W	30W
Motor Type	DC Motor	DC Motor
Shaking Motion	Orbital	Linear
Orbital Diameter	20 mm	20 mm
Maximum load capacity (with platform)	3 kg	3 kg
Speed Range	0 – 200 rpm	0 – 200 rpm
Operation Type	Continuous operation	Continuous operation
Dimensions	270 x 330 x 110 mm	270 x 330 x 110 mm
Weight	3.1 kg	3.1 kg
Permissible ambient Temperature	5-45° C	5-45° C
Permissible ambient Humidity	80%	80%



Classic Orbital Shaker

Code	Product	No. per Case	Price /Case (₹)
E11440	Wavemax – Classic Orbital	1	40000

Classic Linear Shaker

Code	Product	No. per Case	Price /Case (₹)
E11450	Wavemax – Classic Linear Shaker	1	40000

WAVEMAX - LCD Digital Orbital & Linear Shaker



- Abdos orbital and linear shakers are capable of mixing and shaking liquids in bottles, flasks, vessels, test tubes and dishes.
- Independent LCD display for adjusting speed and time, speed and timer can be viewed simultaneously.
- Special designed and developed compact space-saving design fits easily in the incubator and refrigerator.
- Maximum load capacity of 2.5 kg with platform.
- Electronic time switching clock controls time or continuous operation mode.
- Space Accessories have wide range of platforms for use with variety of vessels.
- Over speed detection and protection.
- Multi voltage

Specifications	E11460	E11470
Voltage	220-240V	220 – 240V
Frequency	50Hz	50Hz
Power	30W	30W
Motor Type	Brushless DC Motor	Brushless DC Motor
Shaking Motion	Orbital	Linear
Orbital Diameter	4 mm	4 mm
Maximum load capacity (with platform)	2.5 kg	2.5 kg
Speed Range	100 – 800 rpm	100 - 350 rpm
Speed & Timer Display	LCD	LCD
Time Range	1 min – 19h59 min	1 min -19h59min
Operation Type	Continuous / timed operation	Continuous/timed operation
Dimensions	300 x 340 x 100 mm	300 x 340 x 100 mm
Weight	8.1 kg	8.1 kg
Permissible ambient Temperature	5-45° C	5-45° C
Permissible ambient Humidity	80%	80%



EQUIPMENT



Universal attachment with bars



Dish attachment with non-slip mat



Fixing clamp attachment

LCD Digital Orbital Shaker

Code	Product	No. per Case	Price /Case (₹)
E11460	Wavemax – Orbital Shaker	1	70000

LCD Digital Linear Shaker

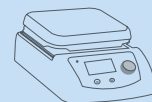
Code	Product	No. per Case	Price /Case (₹)
E11470	Wavemax – Linear Shaker	1	70000

Spare Accessories for E11440, E11450, E11460 & E11470

Code	Product	No. per Case	Price /Case (₹)
E11451	Universal attachment with 3 Bars	1	9500
E11452	Dish attachment with non-slip mat	1	9000
E11453	Fixing clip attachment	1	5000
E11415	Fixing clip for for 25 ml flask	1	900
E11416	Fixing clip for for 50 ml flask	1	900
E11417	Fixing clip for for 100 ml flask	1	900
E11418	Fixing clip for for 200/250 ml flask	1	1700
E11419	Fixing clip for for 500 ml flask	1	1700

* Pls note E11453 is required to run E11415, E11416, E11417, E11418 & E11419.

WAVEMAX - Heavy Duty LCD Digital Orbital & Linear Shaker



- Abdos orbital and linear shakers are capable of mixing and shaking liquids in bottles, flasks, vessels, test tubes and 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.
- Special designed and developed compact space-saving design fits easily in the incubator and refrigerator.
- Electronic time switching clock controls time or continuous operation mode.
- Space Accessories have wide range of platforms for use with variety of vessels.
- Over speed detection and protection.
- Multi voltage

Specifications	E11480	E1149
Voltage	220-240V	220 – 240V
Frequency	50Hz	50Hz
Power	30W	30W
Motor Type	Brushless DC Motor	Brushless DC Motor
Shaking Motion	Orbital	Linear
Orbital Diameter	10 mm	10 mm
Maximum load capacity (with platform)	7.5 kg	7.5 kg
Speed Range	100 – 500 rpm	100 - 350 rpm
Speed & Timer Display	LCD	LCD
Time Range	1 min – 19h59 min	1 min – 19h59min
Operation Type	Continuous/timed operation	Continuous/timed operation
Dimensions	370 x 420 x 100 mm	370 x 420 x 100 mm
Weight	13.5 kg	13.5 kg
Permissible ambient Temperature	5-45° C	5-45° C
Permissible ambient Humidity	80%	80%





Fixing Clamps



Universal attachment with bars



Dish attachment with non-slip mat

LCD Digital Orbital & Linear Shaker

Code	Product	No. per Case	Price /Case (₹)
E11480	Wavemax – Heavy Duty Orbital Shaker	1	75000

LCD Digital Linear Shaker

Code	Product	No. per Case	Price /Case (₹)
E11490	Wavemax – Heavy Duty Linear Shaker	1	75000

Spare Accessories for E11480, E11490

Code	Product	No. per Case	Price /Case (₹)
E11411	Universal attachment with 4 Bars	1	10500
E11413	Dish attachment with non-slip mat & fixed string	1	9500
E11414	Fixing clip attachment	1	7000
E11415	Fixing clip for for 25 ml flask	1	900
E11416	Fixing clip for for 50 ml flask	1	900
E11417	Fixing clip for for 100 ml flask	1	900
E11418	Fixing clip for for 200/250 ml flask	1	1700
E11419	Fixing clip for for 500 ml flask	1	1700

* Pls note E11414 is required to run E11415, E11416, E11417, E11418 & E11419.

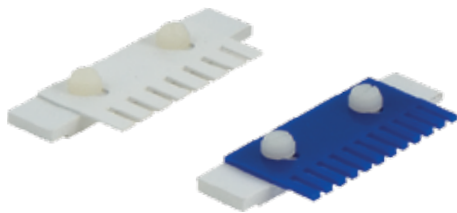
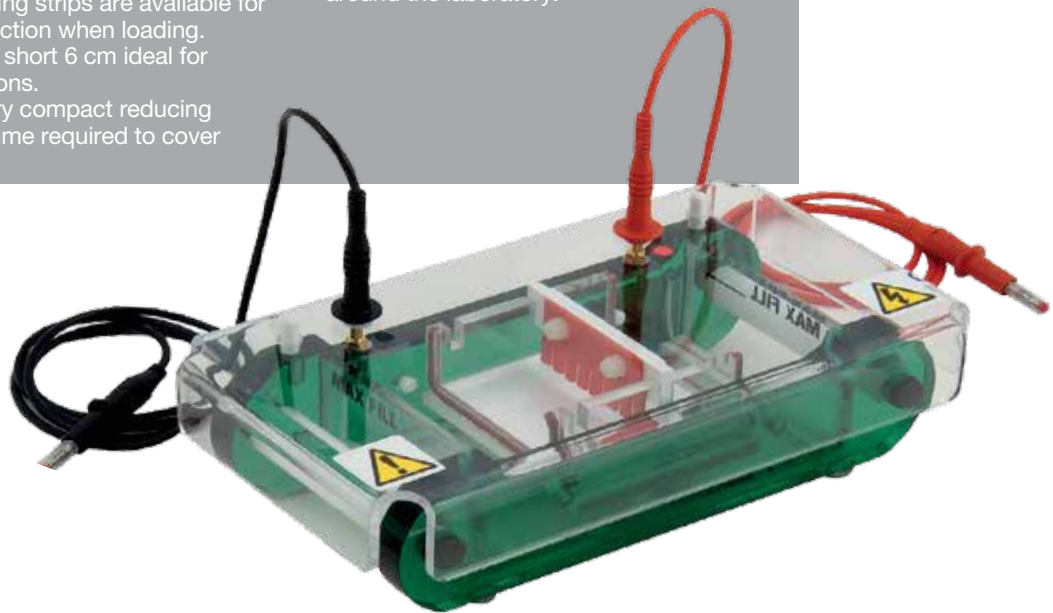
ELECTROPHORESIS



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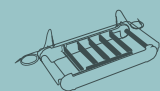
HU6 Mini Horizontal Submarine Gel Electrophoresis System

- The system has four casting options to provide total flexibility in gel casting either directly within the tank or externally when tank is in use.
- The combs are colour Coded and height adjustable to offer complete control over loading volume and well depth to a maximum 32-sample throughput.
- Coloured loading strips are available for easy well detection when loading.
- Gel length is a short 6 cm ideal for rapid separations.
- The tank is very compact reducing the buffer volume required to cover the gel, providing greater control over the voltage gradient and run-time.
- UV-transparent acrylic casting tray allows user to image the gel without risk of damage due to handling.
- The system has handles on the side for safe and easy transportation around the laboratory.



Technical Specifications:

Unit Dimensions (W x L x H)	13 x 24 x 6.5 cm
Gel Dimensions (W x L)	6 x 7.5 cm
Buffer Volume	325 ml
Maximum Sample Capacity	32
Combs	2
Comb Thickness	1, 1.5 or 2 mm
Comb Throughput	8 to 16 samples
Comb Slots	2
Migration Distance Between Combs	3.5 cm
Recommended Running Voltage	70 to 90V
Power Output Connectors (diameter)	Shrouded, 4 mm
Recommended Power Supply	Consort EV245



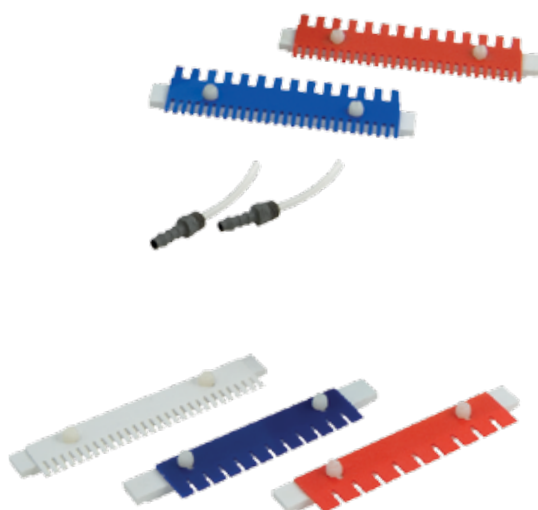
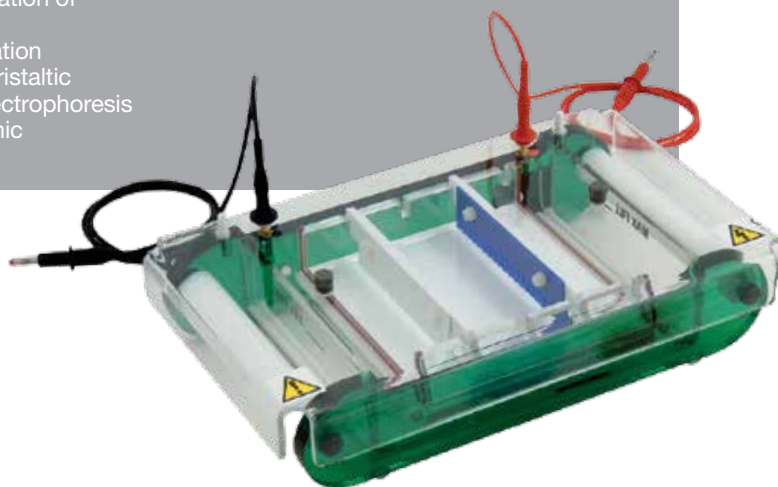
Code	Mini Horizontal Submarine Gel Electrophoresis System	No. per Case	Price (₹)
HU6	Mini horizontal gel unit with removable casting tray and 2x1 mm thick, 8-sample combs and coloured loading strips	1	51500
Accessories for HU6 Mini Horizontal Submarine Gel Electrophoresis System			
HU6-UT	Gel casting tray 6 x 7.5 cm	1	8500
HU6-SCG	Silicon casting gates	2	4800
HU-SG	Silicone gasket, 1 metre	1	2000
HU6-SS	Scie-Plas Super seals	2	4000
HU6-CS	Coloured loading strips	6	1800
HU6-CU	External casting unit for 3 gel casting trays	1	9500
HU6-GS	Gel scoop 6 x 8.5 cm	1	7000
PT-0.2	0.2mm thick, platinum electrode wire	2	13000
CABLE-4	1 metre power leads with shrouded 4mm power output connectors	2	8000
HU6-C1-8	HU6 Comb, Thickness 1 mm, 8-wells, well volume: 20 µl	1	4200
HU6-C1-12MC	HU6 Comb, Thickness 1 mm, 12-wells, well volume: 11 µl (Multichannel Pipette Compatible)	1	4200
HU6-C1-16	HU6 Comb, Thickness 1 mm, 16-wells, well volume: 10 µl	1	4200
HU6-C1.5-8	HU6 Comb, Thickness 1.5 mm, 8-wells, well volume: 30 µl	1	4200
HU6-C1.5-12MC	HU6 Comb, Thickness 1.5 mm, 12-wells, well volume: 17 µl (Multichannel Pipette Compatible)	1	4200
HU6-C1.5-16	HU6 Comb, Thickness 1.5 mm, 16-wells, well volume: 15 µl	1	4200
HU6-C2-8	HU6 Comb, Thickness 2 mm, 8-wells, well volume: 40 µl	1	4200
HU6-C2-12MC	HU6 Comb, Thickness 2 mm, 12-wells, well volume: 22 µl (Multichannel Pipette Compatible)	1	4200
HU6-C2-16	HU6 Comb, Thickness 2 mm, 16-wells, well volume: 20 µl	1	4200

MC Indicates Multi-Channel pipette compatible

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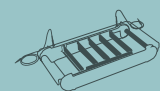
HU13 Midi Horizontal Submarine Gel Electrophoresis System

- The system has four casting options to provide total flexibility in gel casting either directly within the tank or externally when tank is in use.
- The combs are colour Coded and height adjustable to offer complete control over loading volume and well depth to a maximum 112 - sample throughput.
- Coloured loading strips are available for easy well detection when loading.
- The system has four comb positions at 3.5cm intervals along the tray for fast separation of multiple samples.
- The system comes with buffer circulation ports that may be connected to a peristaltic pump for buffer circulation during electrophoresis to maintain buffer pH and prevent ionic gradient formation.
- The tank is very compact reducing the buffer volume required to cover the gel, providing greater control over the voltage gradient and run-time.
- UV-transparent acrylic casting tray allows user to image the gel without risk of damage due to handling.
- The system has handles on the side for safe and easy transportation around the laboratory.



Technical Specifications:

Unit Dimensions (W x L x H)	20 x 32 x 7 cm
Gel Dimensions (W x L)	12.8 x 15 cm
Buffer Volume	900 ml
Buffer Recirculation Ports	2
Maximum Sample Capacity	112
Combs	2
Comb Thickness	1, 1.5 or 2 mm
Comb Throughput	10 to 28 samples
Comb Slots	4
Migration Distance Between Combs	3.5 cm
Recommended Running Voltage	100 to 125V
Power Output Connectors (diameter)	Shrouded, 4 mm
Recommended Power Supply	Consort EV245

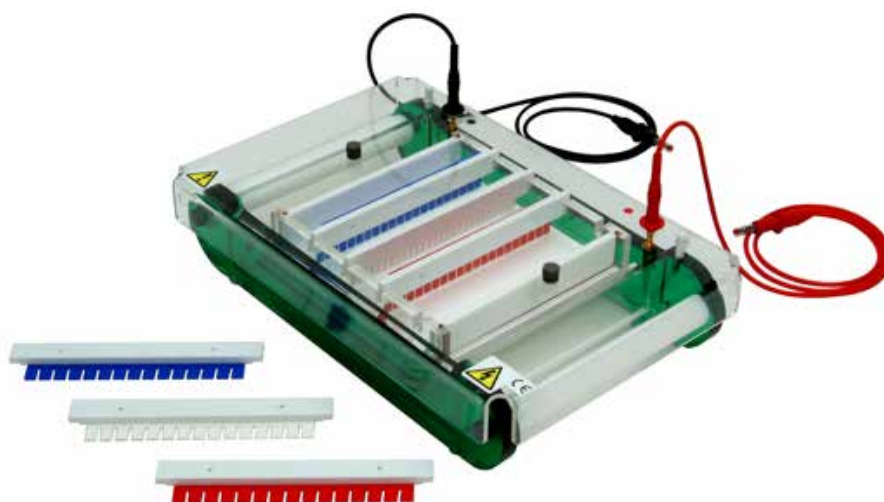


Code	Midi Horizontal Submarine Gel Electrophoresis System	No. Per Case	Price (₹)
HU13	Midi horizontal gel unit with removable casting tray and 2x1mm thick, 16-sample combs, coloured loading strips and buffer recirculation ports.	1	63000
Accessories for HU13 Midi Horizontal Submarine Gel Electrophoresis System			
HU13-UT	Gel casting tray 12.8 x 15cm	1	9500
HU-BRP	Buffer Recirculation ports	2	3800
HU13-SCG	Silicon casting gates	2	5500
HU-SG	Silicone gasket, 1 metre	1	2000
HU13-SS	Scie-Plas Super seals	2	4650
HU13-CS	Coloured loading strips	12	2300
HU13-CU	External casting unit for 3 gel casting trays	1	13000
HU13-GS	Gel scoop 13 x 15 cm	1	8150
PT-0.2	0.2mm thick, platinum electrode wire	2	13000
CABLE-4	1 metre power leads with shrouded 4mm power output connectors	2	8000
HU13-C1-10	HU13 Comb, Thickness 1 mm, 10-wells, well volume: 40 µl	1	5350
HU13-C1-12MC	HU13 Comb, Thickness 1 mm, 12-wells, well volume: 35 µl (Multichannel Pipette Compatible)	1	5350
HU13-C1-16	HU13 Comb, Thickness 1 mm, 16-wells, well volume: 25 µl	1	5350
HU13-C1-20	HU13 Comb, Thickness 1 mm, 20-wells, well volume: 17 µl	1	5350
HU13-C1-24	HU13 Comb, Thickness 1 mm, 24-wells, well volume: 13 µl	1	5350
HU13-C1-28MC	HU13 Comb, Thickness 1 mm, 28-wells, well volume: 13 µl (Multichannel Pipette Compatible)	1	5350
HU13-C1.5-10	HU13 Comb, Thickness 1.5 mm, 10-wells, well volume: 60 µl	1	5350
HU13-C1.5-12MC	HU13 Comb, Thickness 1.5 mm, 12-wells, well volume: 50 µl (Multichannel Pipette Compatible)	1	5350
HU13-C1.5-16	HU13 Comb, Thickness 1.5 mm, 16-wells, well volume: 35 µl	1	5350
HU13-C1.5-24	HU13 Comb, Thickness 1.5 mm, 24-wells, well volume: 20 µl	1	5350
HU13-C1.5-28MC	HU13 Comb, Thickness 1.5 mm, 28-wells, well volume: 20 µl (Multichannel Pipette Compatible)	1	5350
HU13-C2-10	HU13 Comb, Thickness 2 mm, 10-wells, well volume: 85 µl	1	5350
HU13-C2-12MC	HU13 Comb, Thickness 2 mm, 12-wells, well volume: 70 µl (Multichannel Pipette Compatible)	1	5350
HU13-C2-16	HU13 Comb, Thickness 2 mm, 16-wells, well volume: 50 µl	1	5350
HU13-C2-20	HU13 Comb, Thickness 2 mm, 20-wells, well volume: 35 µl	1	5350
HU13-C2-24	HU13 Comb, Thickness 2 mm, 24-wells, well volume: 25 µl	1	5350
HU13-C2-28MC	HU13 Comb, Thickness 2 mm, 28-wells, well volume: 25 µl (Multichannel Pipette Compatible)	1	5350

MC Indicates Multi-Channel pipette compatible

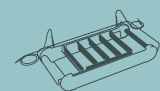
HU15 Standard Horizontal Submarine Gel Electrophoresis System

- The system has 15 x 15 cm gel tray that is ideal for high-resolution techniques, such as screening PCR products and RFLP analysis.
- The combs are colour Coded and height adjustable to offer complete control over loading volume and well depth.
- Coloured loading strips are available for easy well detection when loading.
- The system has four comb slots at 3.5cm intervals along the tray for fast separation of a maximum of 120t samples.
- The system comes with buffer circulation ports that may be connected to a peristaltic pump for buffer circulation during electrophoresis to maintain buffer pH and prevent ionic gradient formation.
- Multi-channel pipette has maximum 30 sample throughput to reduce gel-loading time while preparatory combs enable nucleic acids to be scaled-up for cloning.
 - UV-transparent acrylic casting tray allows user to image the gel without risk of damage due to handling.
- The system has handles on the side for safe and easy transportation around the laboratory.



Technical Specifications:

Unit Dimensions (W x L x H)	21.5 x 33.5 x 7 cm
Gel Dimensions (W x L)	15 x 15 cm
Buffer Volume	1200 ml
Buffer Recirculation Ports	2
Maximum Sample Capacity	120
Combs	2
Comb Thickness	1, 1.5 or 2 mm
Comb Throughput	1 to 30 samples
Comb Slots	4
Migration Distance Between Combs	3.5 cm
Recommended Running Voltage	100 to 125V
Power Output Connectors (diameter)	Shrouded, 4 mm
Recommended Power Supply	Consort EV245



Code	Standard Horizontal Submarine Gel Electrophoresis System	No. Per Case	Price (₹)
HU15	Standars horizontal gel unit with removable casting tray including casting gates with integral silicone seals and 2x1mm thick, 16-sample combs, coloured loading strips and buffer recirculation ports.	1	78500
Accessories for HU15 Standard Horizontal Submarine Gel Electrophoresis System			
HU15-UT	Gel casting tray 15 x 15 cm, including casting gates with integral silicone seals	1	20000
HU-BRP	Buffer Recirculation ports	2	3800
HU-SG	Silicone gasket, 1 metre	1	2000
HU15-SS	Scie-Plas Super Seals	2	4750
HU15-CS	Coloured loading strips	12	2900
HU15-GS	Gel scoop 13 x 15 cm	1	5300
PT-0.2	0.2mm thick, platinum electrode wire	2	13000
CABLE-4	1 metre power leads with shrouded 4mm power output connectors	2	8000
HU15-C1-10	HU15 Comb, Thickness 1 mm, 10-wells, well volume: 64 µl	1	5350
HU15-C1-15	HU15 Comb, Thickness 1 mm, 15-wells, well volume: 35 µl	1	5350
HU15-C1-16MC	HU15 Comb, Thickness 1 mm, 16-wells, well volume: 32 µl (Multichannel Pipette Compatible)	1	5350
HU15-C1-20	HU15 Comb, Thickness 1 mm, 20-wells, well volume: 29 µl	1	5350
HU15-C1-25	HU15 Comb, Thickness 1 mm, 25-wells, well volume: 17 µl	1	5350
HU15-C1-30MC	HU15 Comb, Thickness 1 mm, 30-wells, well volume: 12 µl (Multichannel Pipette Compatible)	1	5350
HU15-C1.5-10	HU15 Comb, Thickness 1.5 mm, 10-wells, well volume: 96 µl	1	5350
HU15-C1.5-15	HU15 Comb, Thickness 1.5 mm, 15-wells, well volume: 52 µl	1	5350
HU15-C1.5-16MC	HU15 Comb, Thickness 1.5 mm, 16-wells, well volume: 48 µl (Multichannel Pipette Compatible)	1	5350
HU15-C1.5-20	HU15 Comb, Thickness 1.5 mm, 20-wells, well volume: 43 µl	1	5350
HU15-C1.5-25	HU15 Comb, Thickness 1.5 mm, 25-wells, well volume: 25 µl	1	5350
HU15-C1.5-30MC	HU15 Comb, Thickness 1.5 mm, 30-wells, well volume: 18 µl (Multichannel Pipette Compatible)	1	5350
HU15-C2-10	HU15 Comb, Thickness 2 mm, 10-wells, well volume: 128 µl	1	5350
HU15-C2-15	HU15 Comb, Thickness 2 mm, 15-wells, well volume: 70 µl	1	5350
HU15-C2-16MC	HU15 Comb, Thickness 2 mm, 16-wells, well volume: 64 µl (Multichannel Pipette Compatible)	1	5350
HU15-C2-20	HU15 Comb, Thickness 2 mm, 20-wells, well volume: 58 µl	1	5350
HU15-C2-25	HU15 Comb, Thickness 2 mm, 25-wells, well volume: 34 µl	1	5350
HU15-C2-30MC	HU15 Comb, Thickness 2 mm, 30-wells, well volume: 24 µl (Multichannel Pipette Compatible)	1	5350

MC Indicates Multi-Channel pipette compatible

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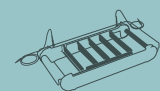
HU20 Maxi-Standard Horizontal Submarine Gel Electrophoresis System

- The system has large 20 x 20 cm gel tray that is ideal for high-resolution techniques, such as screening PCR products and RFLP analysis.
- The combs are colour Coded and height adjustable to offer complete control over loading volume and well depth.
- Coloured loading strips are available for easy well detection when loading.
- The system has four comb slots at 5cm intervals along the tray for fast separation of a maximum of 168 samples.
- The system comes with buffer circulation ports that may be connected to a peristaltic pump for buffer circulation during electrophoresis to maintain buffer pH and prevent ionic gradient formation.
- The combs in this system is compatible to multi-channel pipette with maximum of 42 sample throughput to reduce gel-loading time.
- UV-transparent acrylic casting tray allows user to image the gel without risk of damage due to handling.
- The system has handles on the side for safe and easy transportation around the laboratory.



Technical Specifications:

Unit Dimensions (W x L x H)	27 x 47.5 x 8 cm
Gel Dimensions (W x L)	20 x 20 cm
Buffer Volume	2200 ml
Buffer Recirculation Ports	2
Maximum Sample Capacity	168
Combs	2
Comb Thickness	1, 1.5 or 2 mm
Comb Throughput	16 to 42 samples
Comb Slots	4
Migration Distance Between Combs	5 cm
Recommended Running Voltage	150 to 175V
Power Output Connectors (diameter)	Shrouded, 4 mm
Recommended Power Supply	Consort EV245



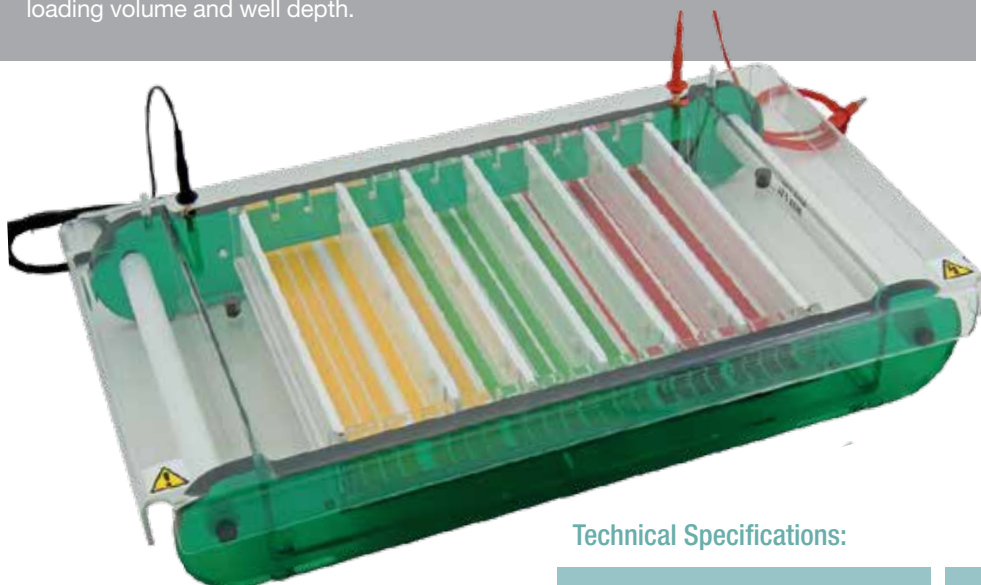
Code	Maxi-Standard Horizontal Submarine Gel Electrophoresis System	No. Per Case	Price (₹)
HU20	Maxi- standard horizontal gel unit with removable casting tray, including casting gates with integral silicon seals, 2x1mm thick, 16-sample combs, coloured loading strips and buffer recirculation ports.	1	97500
Accessories for HU20 Maxi-Standard Horizontal Submarine Gel Electrophoresis System			
HU20-UT	Gel casting tray 20x20cm, including casting gates with integral silicon seals	1	21000
HU-BRP	Buffer Recirculation ports	2	3800
HU20-CG	Silicon casting gates with integral silicon seals	2	9500
HU-SG	Silicone gasket, 1 metre	1	2000
HU20-SS	Scie-Plas Super seals	2	4750
HU20-CS	coloured loading strips	12	2900
HU20-GS	Gel scoop 20 x 25 cm	1	8250
PT-0.2	0.2mm thick, platinum electrode wire	2	13000
CABLE-4	1 metre power leads with shrouded 4mm power output connectors	2	8000
HU20-C1-16	HU20 Combs Thickness 1 mm, 16-wells, well volume: 35 µl	1	5750
HU20-C1-20MC	HU20 Combs Thickness 1 mm, 20-wells, well volume: 30 µl (Multi Channel Pipette Compatible)	1	5750
HU20-C1-28	HU20 Combs Thickness 1 mm, 28-wells, well volume: 20 µl	1	5750
HU20-C1-40MC	HU20 Combs Thickness 1 mm, 40-wells, well volume: 13 µl (Multi Channel Pipette Compatible)	1	5750
HU20-C1.5-16	HU20 Combs Thickness 1.5 mm, 16-wells, well volume: 55 µl	1	5750
HU20-C1.5-20MC	HU20 Combs Thickness 1.5 mm, 20-wells, well volume: 45 µl (Multi Channel Pipette Compatible)	1	5750
HU20-C1.5-28	HU20 Combs Thickness 1.5 mm, 28-wells, well volume: 30 µl	1	5750
HU20-C1.5-40MC	HU20 Combs Thickness 1.5 mm, 40-wells, well volume: 19 µl (Multi Channel Pipette Compatible)	1	5750
HU20-C2-16	HU20 Combs Thickness 2 mm, 16-wells, well volume: 75 µl	1	5750
HU20-C2-20MC	HU20 Combs Thickness 2 mm, 20-wells, well volume: 60 µl (Multi Channel Pipette Compatible)	1	5750
HU20-C2-28	HU20 Combs Thickness 2 mm, 28-wells, well volume: 40 µl	1	5750
HU20-C2-40MC	HU20 Combs Thickness 2 mm, 40-wells, well volume: 25 µl (Multi Channel Pipette Compatible)	1	5750

MC Indicates Multi-Channel pipette compatible

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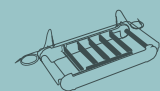
HU25 Maxi -Plus Standard Horizontal Submarine Gel Electrophoresis System

- This system has large 25 x 30 cm gel tray ideal for high-throughput techniques such as HLA typing and screening PCR® products.
- Twelve comb slots at 2 cm intervals along the tray for rapid, high throughput separation of a maximum 624 samples.
- Multi-channel pipette compatible combs with a maximum 52-sample throughput-allow samples to be loaded quickly and easily from 96 and 384-well thermal cyclers.
- Colour Coded and height-adjustable combs offer complete control over loading volume and well depth.
- Buffer recirculation ports maybe connected to a peristaltic pump for buffer recirculation during electrophoresis to maintain buffer pH and prevent ionic gradient formation.
- This system contains coloured loading strips for easy well detection when loading.
- UV-transparent acrylic casting tray allows the user to image the gel without risk of damage due to handling.
- The system contains side handles for safe and easy transportation around the laboratory.



Technical Specifications:

Unit Dimensions (W x L x H)	33 x 56 x 9 cm
Gel Dimensions (W x L)	25 x 30 cm
Buffer Volume	3000 ml
Buffer Recirculation Ports	2
Maximum Sample Capacity	624
Combs	6
Comb Thickness	1, 1.5 or 2 mm
Comb Throughput	26 to 52 samples
Comb Slots	12
Migration Distance Between Combs Slots	2 cm
Recommended Running Voltage	150 to 200V
Power Output Connectors (diameter)	Shrouded, 4 mm
Recommended Power Supply	Consort EV245



Code	Maxi -Plus Standard Horizontal Submarine Gel Electrophoresis System	No. Per Case	Price (₹)
HU25	Maxi Plus Standard horizontal gel unit with removable casting tray, including casting gates with integral silicon seals, 6 x 1 mm thick, 26 sample combs, coloured loading strips and buffer recirculation	1	125000
Accessories for HU25 Maxi-Plus Standard Horizontal Submarine Gel Electrophoresis System			
HU25-UT	Gel casting tray, 25 x 30 cm, including casting gates with integral silicone seals	1	27000
HU-BRP	Buffer Recirculation ports	2	3800
HU-SG	Silicone gasket, 1 metre	1	2000
HU25-SS	Scie Plas Super Seals	2	5150
HU25-GS	Gel scoop, 25 x 32.5 cm	1	9400
PT-0.2	0.2 mm, thick, platinum electrode wire	2	13000
Cable-4	1 metre power leads with shrouded 4mm power output connectors	2	8000
HU25-C1-26MC	HU25 Combs Thickness 1 mm, 26-wells, well volume: 30 µl (Multi Channel Pipette Compatible)	1	8060
HU25-C1-52MC	HU25 Combs Thickness 1 mm, 52-wells, well volume: 13 µl (Multi Channel Pipette Compatible)	1	8060
HU25-C1.5-26MC	HU25 Combs Thickness 1.5 mm, 26-wells, well volume: 45 µl (Multi Channel Pipette Compatible)	1	8060
HU25-C1.5-52MC	HU25 Combs Thickness 1.5 mm, 52-wells, well volume: 20 µl (Multi Channel Pipette Compatible)	1	8060
HU25-C2-52MC	HU25 Combs Thickness 2 mm, 52-wells, well volume: 25 µl (Multi Channel Pipette Compatible)	1	8060

MC indicates Multi-channel pipette compatible.

TV50 Single Plate Mini - Gel Electrophoresis System

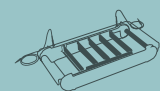
- The system is a single plate 10 x 10 cm mini-gel unit a simple, non-cooled cost-effective solution for low throughput PAGE.
- The system contains 2 and 10 gel multicasters.
- The system is compatible with standard, 10 x 10cm (W x H) commercially available precast gels.
- Two (2) mm thick float glass plates guarantee uniform gel thickness and even sample migration with ground edges to inhibit sample leakage during casting.
- Optional TV 100 silicone gasket allows the GRM to be adapted for the 'non-eared' or short glass plates of major alternative brands.
- Single screw for fast electrophoresis set-up.
- Low buffer volume within the inner chamber of the GRM and bottom reservoir economises buffer consumption.
- Ventilation holes in the system prevent the build-up of condensation during electrophoresis.
- Colour Coded combs and spacers available in 0.75, 1, 1.5 and 2 mm thickness.
- The system has a small footprint area and occupies minimal bench space.

Technical Specifications:

Unit Dimensions (W x D x H)	21.5 x 12.5 x 13.5 cm
Bottom Reservoir Dimensions (W x D x H)	16.5 x 6 x 3.5 cm
Plate Dimensions (W x H x T)	10 x 10 x 0.2 cm
Standard Spacer Dimensions (W x H x T)	1 x 10 x 0.1 cm
Active Gel Dimensions (W x H)	8 x 8.5 cm
Maximum Sample Capacity	1 x 20
Recommended Buffer Volume	
Inner Buffer Chamber	50 ml
Lower Buffer Chamber	250 ml
Recommended Running Conditions for Denaturing/ Native PAGE Gel	Voltage 50 – 100 V (5 -10V/cm) Current 5-10mA Time 1.5 – 2.5h
Power Output Connectors (diameter)	Shrouded, 4 mm
Recommended Power Supply	Consort EV245



Code	Vertical Mini Single Plate Mini Gel Electrophoresis unit	No. Per Case	Price (₹)
TV50	Single-plate mini-gel unit with GRM and integral lower buffer chamber, lid, 2x(10x10cm; W x H) plain glass plates, 2x1mm spacers, 2 x spacer aligners, 2 x(10x10cm) notched glass plates and 1 x 1mm thick 12-sample comb	1	63000



Code	Accessories for TV50 Single Plate Mini Gel Electrophoresis Unit	No. Per Case	Price (₹)
TV100-PGS0.75	(10x10cm) plain glass plates with 0.75mm bonded spacers for TV50	2	7000
TV100-PGS1	(10x10cm) plain glass plates with 1 mm bonded spacers for TV50	2	7000
TV100-PGS1.5	(10x10cm) plain glass plates with 1.5 mm bonded spacers for TV50	2	7000
TV100-PGS2	(10x10cm) plain glass plates with 2 mm bonded spacers for TV50	2	7000
TV100-PG	(10x10cm) plain glass plates for TV50	2	3250
TV100-NG	(10x10cm) notched glass plates for TV50	2	7200
TV100-S0.75	0.75mm thick spacers for TV50	2	2600
TV100-S1	1 mm thick spacers for TV50	2	2600
TV100-S1.5	1.5 mm thick spacers for TV50	2	2600
TV100-S2	2 mm thick spacers for TV50	2	2600
TV100-SA	Spacer aligners for TV50	2	3300
TV100-MC2	Caster system for 2x (10 x 10cm) gradient mini-gels	1	59500
TV100-MC10	Caster system for 10x (10 x 10cm) gradient mini-gels	1	74750
PT-0.2	0.2mm thick, platinum electrode wire	2	13000
CABLE-4	1 metre power leads with shrouded 4 mm power connectors	2	8000
TV100-C0.75-8MC	TV50 Combs Thickness 0.75 mm, 8-wells, well volume: 67 µl (Multi Channel Pipette Compatible)	1	4000
TV100-C0.75-10	TV50 Combs Thickness 0.75 mm, 10-wells, well volume: 45 µl	1	4000
TV100-C0.75-12	TV50 Combs Thickness 0.75 mm, 12-wells, well volume: 42 µl	1	4000
TV100-C0.75-16MC	TV50 Combs Thickness 0.75 mm, 16-wells, well volume: 28 µl (Multi Channel Pipette Compatible)	1	4000
TV100-C0.75-20	TV50 Combs Thickness 0.75 mm, 20-wells, well volume: 22 µl	1	4000
TV100-C1-8MC	TV50 Combs Thickness 1 mm, 8-wells, well volume: 90 µl (Multi Channel Pipette Compatible)	1	4000
TV100-C1-10	TV50 Combs Thickness 1 mm, 10-wells, well volume: 60 µl	1	4000
TV100-C1-12	TV50 Combs Thickness 1 mm, 12-wells, well volume: 56 µl	1	4000
TV100-C1-16MC	TV50 Combs Thickness 1 mm, 16-wells, well volume: 37 µl (Multi Channel Pipette Compatible)	1	4000
TV100-C1-20	TV50 Combs Thickness 1 mm, 20-wells, well volume: 30 µl	1	4000
TV100-C1.5-8MC	TV50 Combs Thickness 1.5 mm, 8-wells, well volume: 120 µl (Multi Channel Pipette Compatible)	1	4000
TV100-C1.5-10	TV50 Combs Thickness 1.5 mm, 10-wells, well volume: 90 µl	1	4000
TV100-C1.5-12	TV50 Combs Thickness 1.5 mm, 12-wells, well volume: 84 µl	1	4000
TV100-C1.5-16MC	TV50 Combs Thickness 1.5 mm, 16-wells, well volume: 55 µl (Multi Channel Pipette Compatible)	1	4000
TV100-C2-8MC	TV50 Combs Thickness 2 mm, 8-wells, well volume: 180 µl (Multi Channel Pipette Compatible)	1	4000
TV100-C2-10	TV50 Combs Thickness 2 mm, 10-wells, well volume: 120 µl	1	4000
TV100-C2-12	TV50 Combs Thickness 2 mm, 12-wells, well volume: 112 µl	1	4000
TV100-C2-16MC	TV50 Combs Thickness 2 mm, 16-wells, well volume: 75 µl (Multi Channel Pipette Compatible)	1	4000

MC Indicates Multi-Channel pipette compatible

TV100Y Standard & TV100YK Twin Plate Mini Gel Electrophoresis Unit with casting

- The system is a twin plate 10 x 10 cm mini-gel unit designed specifically for PAGE techniques requiring self-cast gels, although precast gels may also be used.
- The system contains standard casting units.
- The system is compatible with standard, 10 x 10cm (W x H) commercially available precast gels.
- Two (2) mm thick float glass plates guarantee uniform gel thickness and even sample migration with ground edges to inhibit sample leakage during casting.
- Standard TV100Y-non-cooled + casting and Cooled TV100YK – cooled + casting versions available.
- Enhanced cooling in TV100YK –snap-lock connectors allow the cooling coil to be connected to an external chiller unit for faster, higher voltage separations.
- Glass plate stops within the newly modified GRM –lock the glass plates firmly into position onto soft silicone gaskets in casting base to ensure leak-free gel casting.
- Single screws at either side of each gel clamping plate – act in conjunction with a counterbalanced, dovetailed silicone gasket to disperse pressure evenly along the height and breadth of the gel as the screws are tightened.
- Low buffer volume within the inner chamber of the GRM and bottom reservoir economises buffer consumption.
- Colour Coded combs and spacers available in 0.75, 1, 1.5 and 2 mm thickness.
- The system has a small footprint area and occupies minimal bench space.

Technical Specifications:	TV100Y	TV100YK
Unit Dimensions (W x D x H)	20 x 15 x 14 cm	28 x 15 x 18 cm
Inner Tank Dimensions (W x D x H)	16.5 x 11 x 11.5 cm	16.5 x 11 x 15 cm
Plate Dimensions (W x H x T)	10 x 10 x 0.2 cm	10 x 10 x 0.2 cm
Standard Spacer Dimensions (W x H x T)	1 x 10 x 0.1 cm	1 x 10 x 0.1 cm
Active Gel Dimensions (W x H)	8 x 8.5 cm	8 x 8.5 cm
Maximum Sample Capacity	2 x 16	2 x 16
Recommended Buffer Volume	Inner Buffer Chamber 90 ml Gel Tank 1200 ml	Inner Buffer Chamber 90 ml Gel Tank 1600 ml
Recommended Running Conditions for Denaturing/ Native PAGE Gel	Voltage 50–100 V (5 -10V/cm) Current 5–10mA Time 1.5 – 2.5h	Voltage 100 – 150 V (10 -15V/cm) Current 10–15mA Time 1 – 1.75h
Snap Lock Connectors for Cooling Coil	Inner Diameter n/a Outer Diameter n/a	Inner Diameter 10 mm Outer Diameter 12 mm
Quick-fit Tubing	Inner Diameter n/a Outer Diameter n/a	Inner Diameter 10 mm Outer Diameter 12 mm
Casting Base Silicone Seal Dimensions (W x L x H)	1.5 x 11 x 0.8 cm	1.5 x 11 x 0.8 cm
Power Output Connectors (diameter)	Shrouded, 4 mm	Shrouded, 4 mm
Recommended Power Supply	Consort EV245	Consort EV245

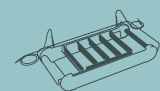


TV100Y-
non-cooled + casting



TV100YK-
cooled + casting

Code	TV100Y Standard & TV100YK Twin Plate Mini Gel Electrophoresis Unit	No.PerCase	Price (₹)
TV100Y	Twin-plate mini-gel unit with GRM and gel tank, lid, 2x(10x10cm;w x h) plain glass plates,4x1 mm spacers,2x spacer aligners, 2x(10x10cm) notched glass plates, 1x dummy plate and 2x 1mm thick 12-sample combs plus casting base and 2 x silicone seals	1	105500
TV100YK	Twin-plate mini-gel unit with GRM and cooled gel tank,with built-in cooling coil and quick-fit tubing, plus lid, 2x(10x10cm;w x h) plain glass plates, 4x1 mm spacers, 2x spacer aligners, 2x(10x10cm) notched glass plates, 1x dummy plate, 2x 1mm thick 12-sample combs, casting base and 2 x silicone seals	1	127000



Code	Accessories for TV100Y & TV100YK Standard Twin Plate Mini Gel Electrophoresis Unit	No. Per Case	Price (₹)
TCS-CC	Quick Fit Tubes for cooling coil	2	9800
TV100-PGS0.75	(10x10cm) plain glass plates with 0.75mm bonded spacers for TV100	2	7000
TV100-PGS1	(10x10cm) plain glass plates with 1 mm bonded spacers for TV100	2	7000
TV100-PGS1.5	(10x10cm) plain glass plates with 1.5 mm bonded spacers for TV100	2	7000
TV100-PGS2	(10x10cm) plain glass plates with 2 mm bonded spacers for TV100	2	7000
TV100-PG	(10x10cm) plain glass plates for TV100	2	3253
TV100-NG	(10x10cm) notched glass plates for TV100	2	7250
TV100 -DP	(10 x 10cm) dummy plate	1	3255
TV100-S0.75	0.75mm thick spacers for TV100	2	2550
TV100-S1	1 mm thick spacers for TV100	2	2550
TV100-S1.5	1.5 mm thick spacers for TV100	2	2550
TV100-S2	2 mm thick spacers for TV100	2	2550
TV100-SA	Spacer aligners for TV100	2	3260
TV100-CB	Cam Pin casting base with 2 silicone seals	1	31250
TV100-CB-Seals	Silicon Seals for cam-pin casting base	2	2150
TV100-MC2	Caster system for 2x(10 x10cm) gradient mini-gels	1	59000
TV100-MC10	Caster system for 10x(10 x10cm) gradient mini-gels	1	75000
TV100-SGB	Silicon gasket for non-earned glass plates	2	6900
PT-0.2	0.2mm thick, platinum electrode wire	2	13000
CABLE-4	1 metre power leads with shrouded 4 mm power connectors	2	8000
TV100-C0.75-8MC	TV100 Combs Thickness 0.75 mm, 8-wells, well volume: 67 µl (Multi Channel Pipette Compatible)	1	4000
TV100-C0.75-10	TV100 Combs Thickness 0.75 mm, 10-wells, well volume: 45 µl	1	4000
TV100-C0.75-12	TV100 Combs Thickness 0.75 mm, 12-wells, well volume: 42 µl	1	4000
TV100-C0.75-16MC	TV100 Combs Thickness 0.75 mm, 16-wells, well volume: 28 µl (Multi Channel Pipette Compatible)	1	4000
TV100-C1-8MC	TV100 Combs Thickness 1 mm, 8-wells, well volume: 90 µl (Multi Channel Pipette Compatible)	1	4000
TV100-C1-10	TV100 Combs Thickness 1 mm, 10-wells, well volume: 60 µl	1	4000
TV100-C1-12	TV100 Combs Thickness 1 mm, 12-wells, well volume: 56 µl	1	4000
TV100-C1-16MC	TV100 Combs Thickness 1 mm, 16-wells, well volume: 37 µl (Multi Channel Pipette Compatible)	1	4000
TV100-C1-20	TV100 Combs Thickness 1 mm, 20-wells, well volume: 30 µl	1	4000
TV100-C1.5-8MC	TV100 Combs Thickness 1.5 mm, 8-wells, well volume: 120 µl (Multi Channel Pipette Compatible)	1	4000
TV100-C1.5-10	TV100 Combs Thickness 1.5 mm, 10-wells, well volume: 90 µl	1	4000
TV100-C1.5-12	TV100 Combs Thickness 1.5 mm, 12-wells, well volume: 84 µl	1	4000
TV100-C1.5-16MC	TV100 Combs Thickness 1.5 mm, 16-wells, well volume: 55 µl (Multi Channel Pipette Compatible)	1	4000
TV100-C2-8MC	TV100 Combs Thickness 2 mm, 8-wells, well volume: 180 µl (Multi Channel Pipette Compatible)	1	4000
TV100-C2-10	TV100 Combs Thickness 2 mm, 10-wells, well volume: 120 µl	1	4000
TV100-C2-12	TV100 Combs Thickness 2 mm, 12-wells, well volume: 112 µl	1	4000
TV100-C2-16MC	TV100 Combs Thickness 2 mm, 16-wells, well volume: 75 µl (Multi Channel Pipette Compatible)	1	4000

MC Indicates Multi-Channel pipette compatible

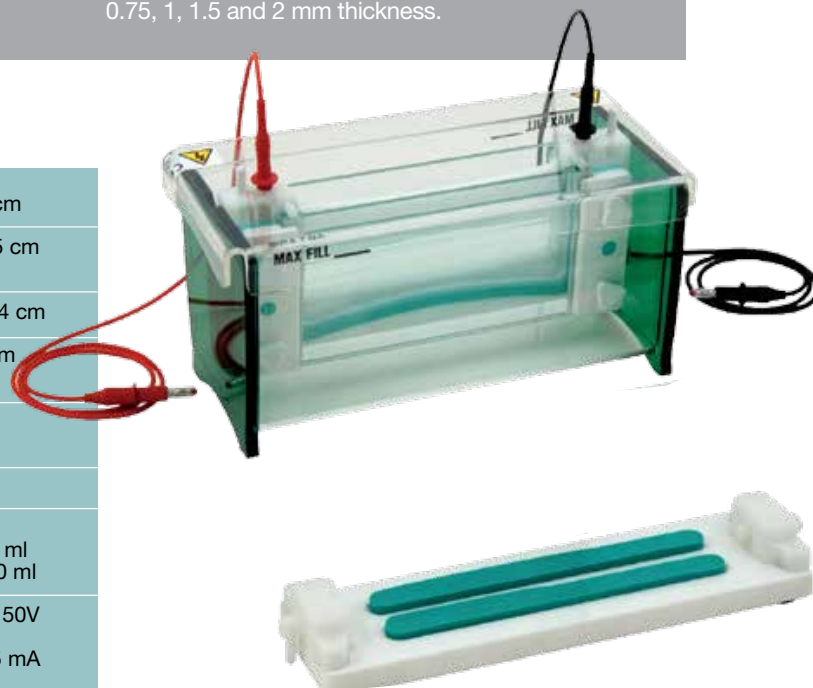
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TV200Y Standard Twin Plate Wide Format Mini Gel Electrophoresis Unit with casting

- The system is a twin plate 20.5 x 10 cm wide format mini-gel unit designed specifically for PAGE techniques requiring self-cast gels.
- The system has wide format 20.5 cm gel width effectively allows 2 mini-gels to be run within the same gels.
- The system contains standard casting units.
- Four (4) mm thick float glass plates guarantee uniform gel thickness and even sample migration and with ground edges to inhibit sample leakage during casting.
- Glass plate stops within the newly modified GRM –lock the glass plates firmly into position onto soft silicone gaskets in casting base to ensure leak-free gel casting.
- Twin screws on each gel-clamp – act in conjunction with a counterbalanced, dovetailed silicone gasket to disperse pressure evenly along the height and breadth of the gel as the screws are tightened.
- Colour Coded combs and spacers available in 0.75, 1, 1.5 and 2 mm thickness.

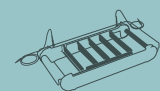
Technical Specifications:

Unit Dimensions (W x D x H)	30 x 15 x 14 cm
Inner Tank Dimensions (W x D x H)	27 x 11 x 11.5 cm
Plate Dimensions (W x H x T)	20.5 x 10 x 0.4 cm
Standard Spacer Dimensions (W x H x T)	2 x 20 x 0.1 cm
Active Gel Dimensions (W x H)	16.5 x 8.5 cm
Maximum Sample Capacity	2 x 48
Recommended Buffer Volume	Inner Buffer Chamber 300 ml Gel Tank 2800 ml
Recommended Running Conditions for Denaturing/ Native PAGE Gel	Voltage 100-150V (10-15V/ cm) Current 10-15 mA Time 1.5 – 2h
Casting Base Silicone Seal Dimensions (W x L x H)	1.7 x 22.5 x 0.8 cm
Power Output Connectors (diameter)	Shrouded, 4 mm
Recommended Power Supply	Consort EV245



TV 200Y with casting

Code	TV200Y Standard Twin Plate Wide Format Mini Gel Electrophoresis Unit	No. Per Case	Price (₹)
TV200Y	Twin-plate wide format mini-gel unit with GRM and gel tank, lid, 2x(20.5x10cm;w x h) plain glass plates,4x1 mm spacers, 2x spacer aligners, 2x(20.5x10cm) notched glass plates, 1x dummy plate and 2x 1mm thick 24-sample combs, casting base and 2 x silicone seals	1	161000



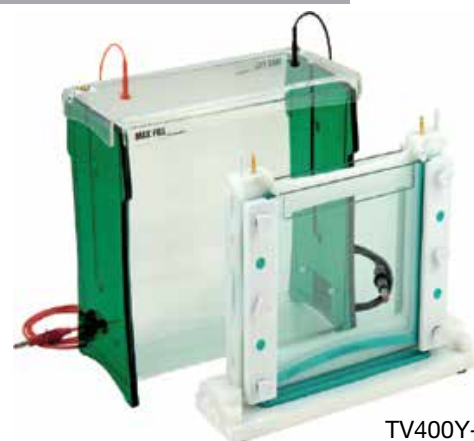
Code	Accessories for TV200Y Standard Twin Plate Wide Format Mini Gel Electrophoresis Unit	No. Per Case	Price (₹)
TV200-GRM	TV200 gel running module	1	62000
TV200-PGS0.75	(20.5x10cm)plain glass plates with 0.75mm bonded spacers for TV200	2	6850
TV200-PGS1	(20.5x10cm)plain glass plates with 1 mm bonded spacers for TV200	2	6850
TV200-PGS1.5	(20.5x10cm)plain glass plates with 1.5 mm bonded spacers for TV200	2	6850
TV200-PGS2	(20.5x10cm)plain glass plates with 2 mm bonded spacers for TV200	2	6850
TV200-PG	(20.5x10cm)plain glass plates for TV200	2	4900
TV200-NG	(20.5x10cm)notched glass plates for TV200	2	11200
TV200-DP	(20.5x10cm) dummy plate	1	3300
TV200-S0.75	0.75mm thick spacers for TV200	2	3300
TV200-S1	1 mm thick spacers for TV200	2	3300
TV200-S1.5	1.5 mm thick spacers for TV200	2	3300
TV400-SA	Spacer aligners for TV200	2	5400
TV400-CB	Cam-pin casting base with 2 silicon seals	1	36000
TV200-MC2	Caster system for 2x(20.5 x10cm) gradient wide format mini-gels	1	75000
PT-0.2	0.2mm thick, platinum electrode wire	2	13000
CABLE-4	1 metre power leads with shrouded 4 mm power connectors	2	8000
TV400-C0.35-24	TV200 Combs Thickness 0.35 mm, 24-wells, well volume: 8 µl	1	4500
TV400-C0.35-36MC	TV200 Combs Thickness 0.35 mm, 36-wells, well volume: 4 µl (Multi Channel Pipette Compatible)	1	4500
TV400-C0.75-18MC	TV200 Combs Thickness 0.75 mm, 18-wells, well volume: 90 µl (Multi Channel Pipette Compatible)	1	4500
TV400-C0.75-24	TV200 Combs Thickness 0.75 mm, 24-wells, well volume: 71 µl	1	4500
TV400-C0.75-36MC	TV200 Combs Thickness 0.75 mm, 36-wells, well volume: 37 µl (Multi Channel Pipette Compatible)	1	4500
TV400-C0.75-48	TV200 Combs Thickness 0.75 mm, 48-wells, well volume: 35 µl	1	4500
TV400-C1-18MC	TV200 Combs Thickness 1 mm, 18-wells, well volume: 120 µl (Multi Channel Pipette Compatible)	1	4500
TV400-C1-24	TV200 Combs Thickness 1 mm, 24-wells, well volume: 95 µl	1	4500
TV400-C1-36MC	TV200 Combs Thickness 1 mm, 36-wells, well volume: 50 µl (Multi Channel Pipette Compatible)	1	4500
TV400-C1-48	TV200 Combs Thickness 1 mm, 48-wells, well volume: 47 µl	1	4500
TV400-C1.5-18MC	TV200 Combs Thickness 1.5 mm, 18-wells, well volume: 180 µl (Multi Channel Pipette Compatible)	1	4500
TV400-C1.5-24	TV200 Combs Thickness 1.5 mm, 24-wells, well volume: 142 µl	1	4500
TV400-C1.5-36MC	TV200 Combs Thickness 1.5 mm, 36-wells, well volume: 75 µl (Multi Channel Pipette Compatible)	1	4500
TV400-C1.5-48	TV200 Combs Thickness 1.5 mm, 48-wells, well volume: 70 µl	1	4500

MC Indicates Multi-Channel pipette compatible

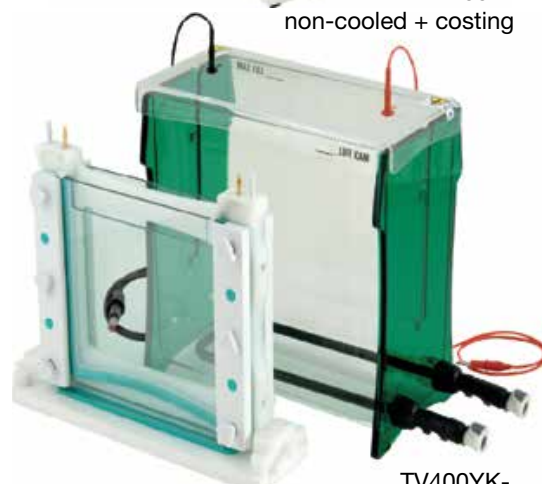
TV400Y Standard & TV400YK Cooled Twin Plate Maxi-Gel Electrophoresis Unit with casting

- The system is a twin plate 20.5 x 20 cm maxi-gel unit designed specifically for higher resolution PAGE techniques requiring self-cast gels.
- The system has large format 20.5 x 20.5 cm glass plate dimensions are ideal for running higher percentage polyacrylamide gels to resolve smaller proteins of similar molecular weight.
- The system contains standard casting units.
- Four (4) mm thick float glass plates guarantee uniform gel thickness and even sample migration and with ground edges to inhibit sample leakage during casting.
- Standard TV400Y - non-cooled + casting and Cooled TV400YK – cooled + casting versions available.
- Enhanced cooling in TV400YK –snap-lock connectors allow the cooling coil to be connected to an external chiller unit for faster, higher voltage separations.
- Glass plate stops within the newly modified GRM –lock the glass plates firmly into position onto soft silicone gaskets in casting base to ensure leak-free gel casting.
- Triple screw on each gel clamp – act in conjunction with a counterbalanced, dovetailed silicone gasket to disperse pressure evenly along the height and breadth of the gel as the screws are tightened.
- Colour Coded combs and spacers available in 0.75, 1, 1.5 and 2 mm thickness.

Technical Specifications:	TV400Y	TV400K
Unit Dimensions (W x D x H)	28.5 x 15 x 27.5 cm	38 x 15 x 27.5 cm
Inner Tank Dimensions (W x D x H)	27 x 12.5 x 25 cm	27 x 12.5 x 25 cm
Plate Dimensions (W x H x T)	20.5 x 20 x 0.4 cm	20.5 x 20 x 0.4 cm
Standard Spacer Dimensions (W x H x T)	2 x 20 x 0.1 cm	2 x 20 x 0.1 cm
Active Gel Dimensions (W x H)	16.5 x 17.5 cm	16.5 x 17.5 cm
Maximum Sample Capacity	2 x 48	2 x 48
Recommended Buffer Volume	Inner Buffer Chamber 700 ml Gel Tank 4200 ml	Inner Buffer Chamber 700 ml Gel Tank 4200 ml
Recommended Running Conditions for Denaturing/ Native PAGE Gel	Voltage 175 – 225V (8.75 – 11.25V/cm) Current 20 – 30mA Time 2.5 -3.5h	Voltage 200 – 300V (10 – 15V/cm) Current 30 – 40mA Time 2 – 2.5h
Snap Lock Connectors for Cooling Coil	Inner Diameter n/a Outer Diameter n/a	Inner Diameter 10 mm Outer Diameter 12 mm
Quick-fit Tubing	Inner Diameter n/a Outer Diameter n/a	Inner Diameter 10 mm Outer Diameter 12 mm
Casting Base Silicone Seal Dimensions (W x L x H)	1.7 x 22.5 x 0.8 cm	1.7 x 22.5 x 0.8 cm
Power Output Connectors (diameter)	Shrouded, 4 mm	Shrouded, 4 mm
Recommended Power Supply	Consort EV245	Consort EV245

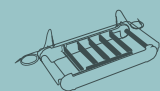


TV400Y-
non-cooled + costing



TV400YK-
cooled + costing

Code	TV400Y Standard & TV400YK Cooled Twin Plate Maxi-Gel Electrophoresis Unit	No. Per Case	Price (₹)
TV400Y	Twin Plate wide format mini gel unit with GRM and gel tank, lid, 2 x (20.5 x 20cm; w x h) Plain Glass plates 4 x 1 mm spacers, 2 x spacer alingers, 2 x (20.5 x 20cm) notched glass plates, 1 x dummy plate and 2 x 1mm thick 24 sample combs casting base and 2 x silicons seals	1	161000



Code	TV400Y Standard & TV400YK Cooled Twin Plate Maxi-Gel Electrophoresis Unit	No. Per Case	Price (₹)
TV400YK	Twin Plate wide format mini gel unit with GRM and cooled gel tank, lid, with in-built cooling coil and quick-fit tubing, plus lid, 2 x (20.5 x 20cm; w x h) Plain Glass plates, 4 x 1 mm spacers, 2 x spacer aligners, 2 x (20.5 x 20cm) notched glass plates, 1 x dummy plate, 2 x 1mm thick 24 sample combs, casting base and 2 x silicon seals	1	194500
Accessories for TV400Y Standard & TV400YK Cooled Twin Plate Maxi-Gel Electrophoresis Unit			
TV400-GRM	TV400 gel running module	1	83000
TCS-CC	Quick - fit tubes for cooling coil	2	9800
TV400-PGS0.75	(20.5x20cm)plain glass plates with 0.75mm bonded spacers for TV400	2	6150
TV400-PGS1	(20.5x20cm)plain glass plates with 1 mm bonded spacers for TV400	2	6150
TV400-PGS1.5	(20.5x20cm)plain glass plates with 1.5 mm bonded spacers for TV400	2	6150
TV400-PG	(20.5x20cm)plain glass plates for TV400	2	5700
TV400-NG	(20.5x20cm)notched glass plates for TV400	2	8600
TV400-DP	(20.5x10cm) dummy plate	1	6900
TV400-S0.75	0.75mm thick spacers for TV400	2	3050
TV400-S1	1 mm thick spacers for TV400	2	3050
TV400-S1.5	1.5 mm thick spacers for TV400	2	3050
TV400-S2	2 mm thick spacers for TV400	2	3050
TV400-SA	Spacer aligners for TV400	2	5450
TV400-CB	Cam-pin casting base with 2 silicon seals	1	36000
TV400-MC2	Caster system for 2x(20.5 x10cm) gradient wide format mini-gels	1	90000
PT-0.2	0.2mm thick, platinum electrode wire	2	13000
CABLE-4	1 metre power leads with shrouded 4 mm power connectors	2	8000
TV400-C0.35-24	TV400 Combs Thickness 0.35 mm, 24-wells, well volume: 8 µl	1	4500
TV400-C0.35-36MC	TV400 Combs Thickness 0.35 mm, 36-wells, well volume: 4 µl (Multi Channel Pipette Compatible)	1	4500
TV400-C0.75-18MC	TV400 Combs Thickness 0.75 mm, 18-wells, well volume: 90 µl (Multi Channel Pipette Compatible)	1	4500
TV400-C0.75-24	TV400 Combs Thickness 0.75 mm, 24-wells, well volume: 71 µl	1	4500
TV400-C0.75-36MC	TV400 Combs Thickness 0.75 mm, 36-wells, well volume: 37 µl (Multi Channel Pipette Compatible)	1	4500
TV400-C0.75-48	TV400 Combs Thickness 0.75 mm, 48-wells, well volume: 35 µl	1	4500
TV400-C1-18MC	TV400 Combs Thickness 1 mm, 18-wells, well volume: 120 µl (Multi Channel Pipette Compatible)	1	4500
TV400-C1-24	TV400 Combs Thickness 1 mm, 24-wells, well volume: 95 µl	1	4500
TV400-C1-36MC	TV400 Combs Thickness 1 mm, 36-wells, well volume: 50 µl (Multi Channel Pipette Compatible)	1	4500
TV400-C1-48	TV400 Combs Thickness 1 mm, 48-wells, well volume: 47 µl	1	4500
TV400-C1.5-18MC	TV400 Combs Thickness 1.5 mm, 18-wells, well volume: 180 µl (Multi Channel Pipette Compatible)	1	4500
TV400-C1.5-24	TV400 Combs Thickness 1.5 mm, 24-wells, well volume: 142 µl	1	4500
TV400-C1.5-36MC	TV400 Combs Thickness 1.5 mm, 36-wells, well volume: 75 µl (Multi Channel Pipette Compatible)	1	4500
TV400-C1.5-48	TV400 Combs Thickness 1.5 mm, 48-wells, well volume: 70 µl	1	4500

MC indicates Multi-channel pipette compatible.

POWER SUPPLIES

Code	Consort EV245
VOLTAGE	0...400V
CURRENT	0...500mA
POWER	0...50W
PARAMETER RANGE	1...100% of full scale
TIMER	0...99:59h
VOLT- HOURS	0...99.99kVh
DISPLAY	LCD, 2 x 16 characters
RESOLUTION	1V, 1mA, 1W
PROGRAMS	9 x 9 set of parameters
OUTPUTS	3 in parallel, 4mm sockets
MINIMUM LOAD RESISTANCE	30Ω
BUFFER DEPLETION DETECTION	On/off, programmable
NO LOAD DETECTION	On/off, programmable
GROUND LEAKAGE DETECTION	✓
OVERLOAD DETECTION	✓
COMPUTER CONTROL	✓
DATA/ LOGGING	3600 values
RS232	9600b/s
AMBIENT TEMPERATURE	0...40°C
RELATIVE HUMIDITY	0...95% non condensing
POWER REQUIREMENTS	210...250VAC, 50/60Hz, 75W
DIMENSIONS (W*D*H)	24x20x13 cm
WEIGHT	3 Kg

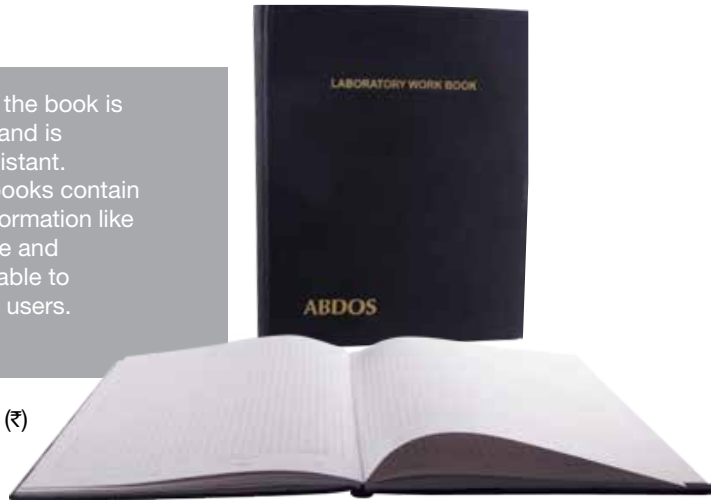
Code	Power Supply System	No. per case	Price (₹)
Consort EV245	400 Volt, 500 mAmps, 50 Watts 230VAC	1	110000
4/4 MMA	4mm -to- 4mm adapter for power supplies with 4mm output terminals	2	3300
4/2 MMA	4mm -to- 2mm adapter for power supplies with 2mm output terminals	2	3300
2/4 MMA	2mm -to- 4mm adapter for power supplies with 4mm output terminals	2	3300

UTILITIES



156 Laboratory Workbook

- Abdos Laboratory workbooks is used to keep important indispensable data such as lab work, details on experiment and design and development.
- All pages are numbered with enough space for date, title, project number, book number and signature.
- The cover of the book is water-proof and is chemical resistant.
- These workbooks contain important information like periodic table and conversion table to help our end users.



Code	No. of Pages	No. per Case	Price /Case (₹)
U50101	100	5	2500



157 Biohazard Disposable Bags, PP

- Bright red colour polypropylene bags are easy to open and is used to dispose used Micro Tips, Tubes and other plastic products.
- These bags are printed with biohazard symbol, writing indicator white patch and pass ASTM 1922 tear resistance and ASTM 1709 dart impact tests.
- Can be autoclaved

Code	Size (cm)	No. per Case	Price /Case (₹)
U40103	48 x 58	200	2525
U40104	64 x 89	200	5500

158 Autoclavable Bags, PP

- These polypropylene autoclave bags made of 100 micron thickness are used for discarding used petri dishes, membrane filters, cell culture flasks, pipettes, culture plates and other plastic products.
- These bags are transparent.
- Can be autoclaved

Code	Size (cm)	No. per Case	Price /Case (₹)
U40108	42 x 30	100	1400
U40109	61 x 41	100	2750





159

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 has 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	Size (cm)	No. per Case	Price /Case (₹)
U40110	26 x 25	100	650
U40111	34 x 33	100	999

160

Safety Goggles, PC



- Polycarbonate lens with side shield.
- Impact resistant and lightweight frames for comfortable eyewear.
- 99.9% UVA/UVB protection.

Code	No. per Case	Price /Case (₹)
U40101	2	484

161

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 (mm)	Size	No. per Case	Price /Case (₹)
P70106	23 x 16 x 18	Small	1	2192
P70107	23 x 16 x 25	Large	1	2768



162

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 B x T (Inch)	No. per Case	Price /Case (₹)
U40102	15.5 x 8 x 0.04	1	2375

163

N95 Mask



- These mask are disposable respirators that provide protection from particulates.
- Large breathing chambers.
- Option of exhalation valve, foam on the entire sealing surface and layer of carbon to provide odour relief from nuisance level of gases and vapour.
- N95 NIOSH approved.

Code	Description	Size	Colour	No. per Case	Price/Case (₹)
U20417	N 95 Particulate respirator	Regular	White	20	1400
U20418	N 95 Particulate respirator with exhalation	Regular	White	10	2100

164

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.
- LINTGURD anti-stat polyshield on each pop-up box helps to further reduce the lint and static buildup.
- Non-abrasive wipers wont scratch on delicate surface when used wet.
- Absorbent wipers hence easily wipe up liquid and dust.
- 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	Size (cm)	No. per Pack	Price /Pack (₹)	No. per Case	Price /Case (₹)
U20409	11.17 x 21.3	280 sheets	220	60 packs	13200
U20410	37.33 x 42.16	140 sheets	750	15 packs	11250



165

Abdos Brand - Skincare Blue Nitrile Gloves - 9.5 inches length

- These gloves are ideal product to protect you 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 fingertips 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 and EN 455 Standards.

Code	Size	No. per Case	Price /Case (₹)
U20341	Small	100	540
U20342	Medium	100	540
U20343	Large	100	540



166

Abdos Brand - Skincare White Latex Gloves - 9.5 inches length

- These gloves are ideal product to protect you 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 D6319 and EN 455 Standards.



Code	Size	No. per Case	Price /Case (₹)
U20344	Small	100	475
U20345	Medium	100	475
U20346	Large	100	475

* Prices for Skincare Gloves are subject to changes.

167 Safeskin Purple Nitrile Gloves

- These gloves are ideal product to protect you 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.



Safe Skin Purple Nitrile Gloves - 9.5 inches length

Code	Size	No. per Case	Price /Case (₹)
U20301	Small	100	930
U20302	Medium	100	930
U20303	Large	100	930



Safe Skin Purple Nitrile Gloves - 12.0 inches length

Code	Size	No. per Case	Price /Case (₹)
U20304	Small	50	860
U20305	Medium	50	860
U20306	Large	50	860

* Prices for Safe Skin Purple Gloves are subject to changes.

168 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. per Case	Price /Case (₹)
P70301	1	260 x 100 x 138	1	1288
P70302	2	260 x 100 x 270	1	1690
P70303	3	260 x 100 x 415	1	2240



169

Wypall X70 Wipers

- An ideal product to replace cloth towels or rags.
 - They can exceptionally absorb oil, grease, solvents and water.
 - 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	Size (cm)	Colour	No. per Case	Price /Case (₹)
U20407	24.7 x 20	White	1roll-100mtr	2862
U20413	24.7 x 20	Blue	1roll-100mtr	2862
U20414	26 x 26	White	50 sheets	540
U20415	25.4 x 38.1	Blue	50 sheets	689



170

Wypall L 40 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 (cm)	Colour	No. per Case	Price /Case(₹)
U20408	21.75 x 36.5	White	56 sheets	499
U20423	38 x 23.4	Blue	1roll-300mtr (approx)	4240

171 Kimcare NTO Hand Cleaner

- Polymer beads for scrubbing without abrasion.
- Kimcare NTO hand cleaner contains orange peel extract for effective cleaning.
- Fresh, Citrus scent.
- Removes tough grime with or without water.
- Comes in high capacity container for easy and convenient dispensing.



Code	Capacity (ml)	No. per Case	Price /Case (₹)
U20421	200	10	2439
U20422	3500	1	2333

172 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	Size (Inch x Feet)	No. per Case	Price /Case (₹)
U30101	2 x 250	1 Roll	2050
U30102	4 x 125	1 Roll	1975
U30103	20 x 50	1 Roll	4000

* Prices for Parafilm M are subject to changes.

173 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 (Inch)	L x W x H, mm	No. per Case	Price /Case (₹)
P70401	2 & 4	180 x 120 x 160	1	2524

* Dispenser does not include Parafilm M



174

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 (inch.)	L x W x H, mm	No. per Case	Price /Case(₹)
P70402	2 & 4	156 x 120 x 156	1	3260

* Dispenser does not include Parafilm M

175

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. per Case	Price /Case (₹)
U20610	136 x 19 x 28	1	3200

176

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	Size (Inch x Feet)	Colour	No. per Case	Price /Case (₹)
U20101 C	0.75 x 108	Clear	1 Roll	5129
U20101 W	0.75 x 108	White	1 Roll	5129
U20101 B	0.75 x 108	Blue	1 Roll	5129

177 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°C (liquid and vapor phase nitrogen), boiling water baths (100°C), autoclaving and moderate oven temperature (150°C). They will resist water soaking for at least 24 hours at room temperature and water vapor (100% relative humidity) at 35°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 contracts 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 (Inch)	No. per Case	Price /Case (₹)
U10401	0.94 x 0.50	1000	2965
U10402	1.28 x 0.50	1000	2965

Cryo-Tags

Code	Size (Inch)	No. per Case	Price /Case (₹)
U10501	1.50 x 0.75	1000	2965



178 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°C (liquid and vapor phase nitrogen), boiling water bath (100°C), autoclaving and moderate oven temperature (150°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	Size (Inch)	No. per Case	Price /Case (₹)
U10301	1/2	1000	2475
U10302	3/8	1000	2475



179 Tough Tags

- 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°C to 121°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	Size (Inch)	No. per Case	Price /Case (₹)
U10201	1.28 x 0.50	1000	2965
U10202	0.94 x 0.50	1000	2965



180 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. per Case	Price /Case (₹)
U10601	1	7000

181

Petri-Seal

- Petri-Seal stretches and conforms to form a tight seal and is temperature resistant, waterproof 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	Size (Inch x Feet)	Colour	No. per Case	Price /Case (₹)
U10901 C	0.5 x 108	Clear	1 Roll	4399
U10901 W	0.5 x 108	White	1 Roll	4399
U10901 B	0.5 x 108	Blue	1 Roll	4399
U10901 R	0.5 x 108	Red	1 Roll	4399
U10901 Y	0.5 x 108	Yellow	1 Roll	4399

182

Dura Seal



- Dura-Seal the durable, heat and solvent- resistant stretch film, has substantial advantages over common laboratory stretch films.
- Its superior heat-resistant allows for containers to be incubated in boiling water baths without suffering the characteristic melting of paraffin-based alternatives.
- Dura Seal is polyethylene based and free of any adhesives, it can resist essentially all caustic agents and organic solvents.

Code	Size (Inch x Feet)	No. per Case	Price /Case (₹)
U10101	2 x 500	1 Roll	4519
U10102	4 x 250	1 Roll	4519

Method of Use:

Dura-Seal is easy to use. There is no interleaf paper to strip away, users have to just stretch the film symmetrically over a container opening and the 1.5mm thick film contracts inwardly around the opening or neck of the Container to provide a drum-tight, water-proof seal. The film can be Elongated 500-800% before breakage, minimizing the incidence of tearing During stretch sealing. The film clings to itself, especially after stretching so the free edges of the film may be stretched around the container to secure the edges.

Permeability Information:

Oxygen	125cc/100in ² /24hrs at 23°C
Carbon Dioxide	1300cc/100in ² /24hrs at 23°C
Water vapor	1.0g/100in ² /24hrs at 38° c and 90% R.H.



183

Markers

- These Markers are waterproof on most surfaces.
- Light Fast
- Can be left uncapped for days without drying out.
- Can be staked easily on the workstation.



Code	Colours Available	No. per Case	Price /Case (₹)
U50102	Red, Blue, Green & Black	4	1260

184

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 rocedures, 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	Size (Inch)	Colour	No. per Case	Price /Case (₹)
U10701 W	0.75 x 500	White	1 Roll	690
U10701 B	0.75 x 500	Blue	1 Roll	690
U10701 G	0.75 x 500	Green	1 Roll	690
U10701 O	0.75 x 500	Orange	1 Roll	690
U10701 Y	0.75 x 500	Yellow	1 Roll	690

185

Multi-Tape Dispenser

- These dispensers facilitate easy dispensing from one convenient location.
- Special design allows fast addition or replacement of label roll.



Code	Size	No. per Case	Price /Case (₹)
U20501	For 500 inch Roll	1	6259

186

Speciality Indicator Tape for Steam Autoclave

- Versatile tape indicates completion of normal steam sterilization process.
- All specialty steam indicator tape accepts and written notations, may be used to seal and identify almost all laboratory material before and after processing.
- Change in the colour of the written matter from white to dark after completion of autoclave cycle.



Code	Size (Inch)	No. per Case	Price /Case (₹)
U20802	1 x 500	1 Roll	1150

187

High Temperature Indicator Tape



- Hi-Temperature indicator tape shows the word "Sterilized" in bold letters after standard dry oven processing.
- These are cloth-textured tape that can stick to any surface or shape and can withstand acids,alkalis, oils and greases.
- These are imprinted with heat-sensitive indicator ink.

Code	Size (Inch)	No. per Case	Price /Case (₹)
U20702	0.75 x 250	1 Roll	5129

188

Hi/Lo Temperature Tape

- These are cloth-textured tape that can stick to any container, withstands acid, alkalis, oil, greases, dry ice and liquid gases and wont crack or peel in dry oven or cryogenic temperatures.



Code	Size (Inch)	No. per Case	Price /Case (₹)
U20603	1	1 Roll	3553

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 (X 1 unit of A = B)	D (X 1 unit of B = A)	A	B	C (X 1 unit of A = B)	D (X 1 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	Calories	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				
To obtain	From		Multiply-by above	To obtain	From		Multiply-by above



PERIODIC TABLE OF THE ELEMENTS

- Non-Metals
- Alkali Metals
- Alkaline-Earth Metals
- Transition Metals
- Semi-Metallics
- Other Metals
- Halogens
- Inert Gases
- Lanthanides
- Actinides

1.		2.		3.										4.										5.										6.										7.										8.										9.										10.										11.										12.										13.										14.										15.										16.										17.										18.									
hydrogen 1 H 1.0079		lithium 3 Li 6.941		beryllium 4 Be 9.0122		sodium 11 Na 22.990		magnesium 12 Mg 24.305		potassium 19 K 39.098		calcium 20 Ca 40.078		scandium 21 Sc 44.956		titanium 22 Ti 47.867		vanadium 23 V 50.942		chromium 24 Cr 51.996		manganese 25 Mn 54.938		iron 26 Fe 55.845		cobalt 27 Co 58.933		nickel 28 Ni 58.693		copper 29 Cu 63.546		zinc 30 Zn 65.38		gallium 31 Ga 69.723		germanium 32 Ge 72.64		arsenic 33 As 74.922		selenium 34 Se 78.96		bromine 35 Br 79.904		krypton 36 Kr 83.798		rubidium 37 Rb 85.468		strontium 38 Sr 87.62		cesium 55 Cs 132.91		barium 56 Ba 137.33		rutherfordium 104 Rf [267]		francium 87 Fr [223]		radium 88 Ra [226]		actinium 89 Ac [227]		thorium 90 Th 232.04		protactinium 91 Pa 231.04		uranium 92 U 238.03		neptunium 93 Np [237]		plutonium 94 Pu [244]		americium 95 Am [243]		curium 96 Cm [247]		berkelium 97 Bk [247]		californium 98 Cf [251]		einsteinium 99 Es [252]		fermium 100 Fm [257]		mendelevium 101 Md [258]		nobelium 102 No [259]		lawrencium 103 Lr [262]		lanthanum 57 La 138.91		cerium 58 Ce 140.12		praseodymium 59 Pr 140.91		neodymium 60 Nd 144.24		promethium 61 Pm [145]		samarium 62 Sm 150.36		europium 63 Eu 151.96		gadolinium 64 Gd 157.25		terbium 65 Tb 158.93		dysprosium 66 Dy 162.50		holmium 67 Ho 164.93		erbium 68 Er 167.26		thulium 69 Tm 168.93		ytterbium 70 Yb 173.05		lutetium 71 Lu 174.97																																													
hydrogen 1 H 1.0079		lithium 3 Li 6.941		beryllium 4 Be 9.0122		sodium 11 Na 22.990		magnesium 12 Mg 24.305		potassium 19 K 39.098		calcium 20 Ca 40.078		scandium 21 Sc 44.956		titanium 22 Ti 47.867		vanadium 23 V 50.942		chromium 24 Cr 51.996		manganese 25 Mn 54.938		iron 26 Fe 55.845		cobalt 27 Co 58.933		nickel 28 Ni 58.693		copper 29 Cu 63.546		zinc 30 Zn 65.38		gallium 31 Ga 69.723		germanium 32 Ge 72.64		arsenic 33 As 74.922		selenium 34 Se 78.96		bromine 35 Br 79.904		krypton 36 Kr 83.798		rubidium 37 Rb 85.468		strontium 38 Sr 87.62		cesium 55 Cs 132.91		barium 56 Ba 137.33		rutherfordium 104 Rf [267]		francium 87 Fr [223]		radium 88 Ra [226]		actinium 89 Ac [227]		thorium 90 Th 232.04		protactinium 91 Pa 231.04		uranium 92 U 238.03		neptunium 93 Np [237]		plutonium 94 Pu [244]		americium 95 Am [243]		curium 96 Cm [247]		berkelium 97 Bk [247]		californium 98 Cf [251]		einsteinium 99 Es [252]		fermium 100 Fm [257]		mendelevium 101 Md [258]		nobelium 102 No [259]		lawrencium 103 Lr [262]		lanthanum 57 La 138.91		cerium 58 Ce 140.12		praseodymium 59 Pr 140.91		neodymium 60 Nd 144.24		promethium 61 Pm [145]		samarium 62 Sm 150.36		europium 63 Eu 151.96		gadolinium 64 Gd 157.25		terbium 65 Tb 158.93		dysprosium 66 Dy 162.50		holmium 67 Ho 164.93		erbium 68 Er 167.26		thulium 69 Tm 168.93		ytterbium 70 Yb 173.05		lutetium 71 Lu 174.97																																													

KEY

hydrogen
1
H
1.0079

Atomic Number

Atomic Symbol

Atomic Weight

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	Some	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*	Resin Code
Acids, Dilute or Weak	E	E	E	G	E	E	E	E	E	E	HDPE High-density polyethylene
Acids, Strong and Concentrated	E	E	N	N	E	F	G	E	E	E	LDPE Low-density polyethylene
Alcohols, Aliphatic	E	E	G	N	E	E	G	E	E	E	PC Polycarbonate
Aldehydes	G	G	F	G	G	N	F	E	E	G	PMMA Polymethyl methacrylate
Bases	E	E	N	F	E	E	E	E	E	E	PP Polypropylene
Esters	G	G	N	N	G	N	N	E	G	G	PS Polystyrene
Hydrocarbons, Aliphatic	G	F	F	G	G	N	G	E	E	F	PSF Polysulfone
Hydrocarbons, Aromatic	G	F	N	N	F	N	N	E	E	F	PTFE Polytetrafluoroethylene
Hydrocarbons, Halogenated	F	N	N	N	F	N	N	E	N	N	PVDF Polyvinylidene fluoride
Ketones	G	G	N	N	G	N	N	E	N	F	TPX* Polymethylpentene
Oxidizing Agents, Strong	F	F	N	N	F	N	G	E	G	F	

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 crazing, cacking, 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(PTPX)		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
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	G
Acetonitrile	E	E	G	F	E	G	E	G	E	G	F	F	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
Acetylacetone	E	E	E		E		E		E		F	F	E			F	F	F	F	F	F	F	F
Acrylic acid(2- propanic 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
Adipic acid	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
Aluminium chloride	E	E	E	E	E	E	E	E	E	E	F	F	E	G	G	F	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	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
Ammonium chloride	E	E	E	E	E	E	E	E	E	E	G	G	E	E	E		E	E	G	G	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	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
Aniline	E	E	E	G	E	E	E	E	E	G	G	F	G	G	G	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
Barium chloride	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
Benzene	E	E	G	G	E	G	E	E	G	F	F	F	E	G	E		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
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
Benzyl chloride	E	E											E		E						F	F	F
Benzylamine	E	E	G		G		G	F	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
Bromine	E	E	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
Bromoform	E	E	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
Bromonaphthalene	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
Butyl methyl ether	E	E	E	F	E	G	G	F	G	F	F	F	E	E			F	F	F	F	F	F	F
Butylamine	E	E											E	E			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
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
Calcium Chloride	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
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
Carbon disulphide	E	E	F	F	F	F	F	F	F	F	F	F	E	E	G		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
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
Chloroacetone	E	E															F	F	F	F	F	F	G

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	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	G	G	E	G	G		E	E	F	F	G	F	E	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	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	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	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
Fluoroacetic acid	E											F	F	F	F			F	F	F	F	F	F	F
Formaldehyde, 40%	E	E	E	E	E	E	E	E	E	E	E	G	E	E	E	G	E	E	F	F	F	F	F	G
Formamide	E	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		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
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

Medium	PTFE		PMP(PTX)		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
Hydrogen bromide	E	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	E	F	F	F	E	E	F	F	E	E	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	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	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	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	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	F	G	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	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	F	G	G	E	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	F
Petroleum ether	E	E							G				E	E	E					F	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								
Phenyhydrazine	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	E	G	G	F	F	E	G	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
Propylene glycol (propanediol)	E	E	E	E	E	E	E	E	E	E	E	E	E	F	F	F	F	G	G	E	E	E	E
Pyridine	E	E	E	G	G	E	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	E	G	G		G	G	G	G	G	G	E
Silver nitrate	E	E	E	E	E	E	E	E	E	E	E	E	E	G	G	E		E	E	E	E	G	E
Sodium acetate	E	E	E	E	E	E	E	E	E	E	E	E	E	E	G	E		E	E	F	F	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
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

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
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 IRRADIATION ?

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 5 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-isononyl phthalate (DINP), 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 (te) 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

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

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.

$$RCF = 0.00001118 \times \text{radius of rotation (cm)} \times \text{RPM}^2$$

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.

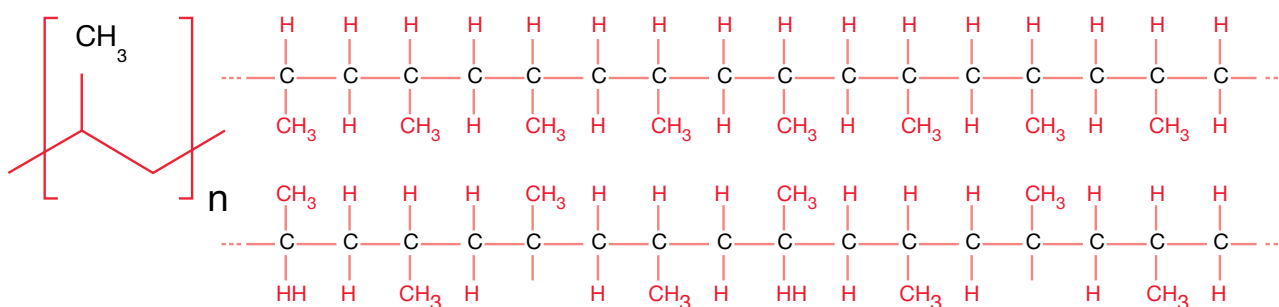
CLASSIFICATION & TYPE DESCRIPTION OF PLASTICS

A thermoplastic, or thermosoftening plastic, is a plastic material, polymer that becomes pliable or moldable above a specific temperature and solidifies upon cooling. Most thermoplastics have a high molecular weight.

There are multiple thermoplastic resins that offer various performance benefits, but most materials commonly offer high strength, shrink-resistance and easy bendability. Thermoplastics are frequently used in manufacturing plastic labware. The most frequently used thermoplastics are polypropylene and polyethylene.

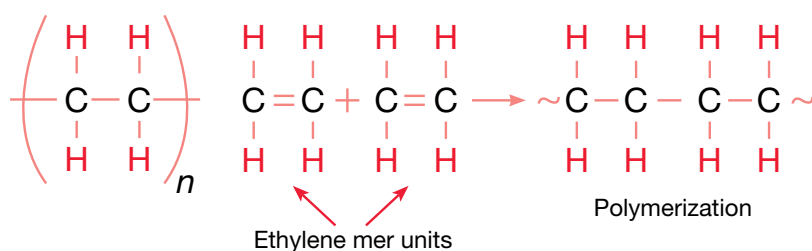
POLYPROPYLENE

Polypropylene (PP) is a linear hydrocarbon polymer, expressed as C_nH_{2n} . PP is a polyolefin or saturated polymer. Polypropylene is one of those most versatile polymers available with applications, both as a plastic and as a fibre.



- Highly transparent, elastic thermoplastic
- Similar structure to PE, with a methyl group attached to alternate carbon atoms in an isotactic arrangement.
- Temperature range from 0°C to +125 °C.
- Good tensile strength and dimensional stability.
- Good chemical stability, comparable to PE.
- Typical products are, for example: Class B volumetric flasks, Class B measuring cylinders, measuring pitchers, sample containers, funnels
- Good thermal stability.

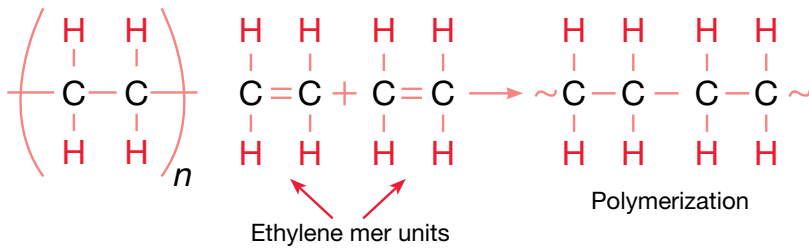
PE-HD HIGH-DENSITY POLYETHYLENE



- Transparent, elastic thermoplastic.
- Good thermal stability.
- Temperature range from -50 °C to +105 °C.
- Compact, with increased tensile strength due to less cross-linking compared with PE-LD.
- Good chemical stability.
- Better chemical stability to organic solvents compared to PE-LD.
- Typical products are, for example: Bottles, buckets, scoops.

*For the storage of light-sensitive materials, also available in brown-dyed version.

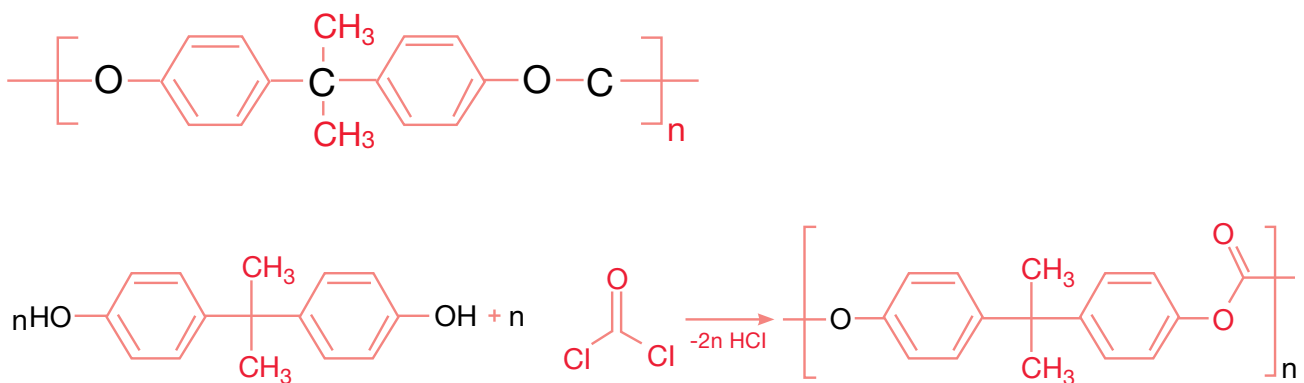
PE-LD LOW-DENSITY POLYETHYLENE



- Highly transparent, elastic thermoplastic
- Moderate thermal stability.
- Temperature range from $-50\text{ }^{\circ}\text{C}$ to $+80\text{ }^{\circ}\text{C}$
- Very good flexibility.
- Typical products are, for example:
Wash bottles, dropping pipettes.
- Good chemical stability.

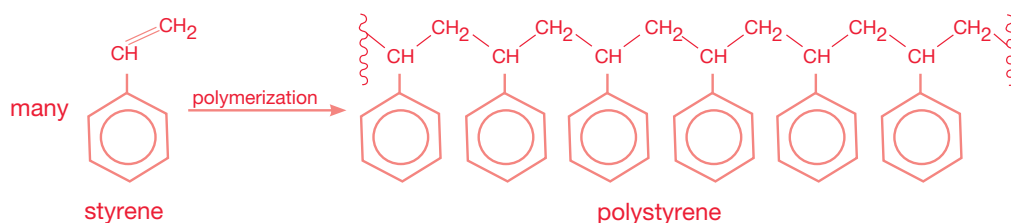
PC POLYCARBONATE

Polycarbonate is virtually unbreakable. Through its high impact resistance, it provides greater safety and comfort for applications where reliability and high performance are essential.



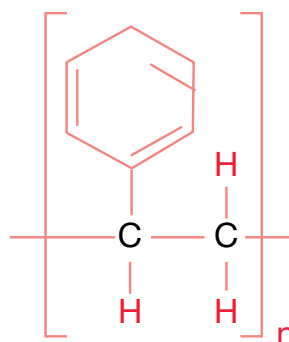
- Excellent clarity and visibility.
- Transmits light better than alternative material
- Light weight allows architectural and design creativity
- Linear polymer of carbon dioxide.
- Very good temperature stability.
- Temperature range from $-130\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$.
- Thermostable and excellent heat resistant
- Good tensile strength and impact resistance.
- Typical products are, for example: Desiccators.
- Polycarbonates can lose their tensile strength through autoclaving or exposure to alkaline detergents.
- Moderate chemical stability.

PS POLYSTYRENE



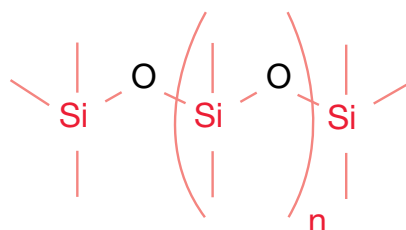
Polystyrene's chemical formula is $(C_8H_8)_n$.

- Crystal clear, stiff, amorphous or semi-crystalline thermoplastic.
- Moderate thermal stability.
- Temperature range from $-20\text{ }^\circ\text{C}$ to $+70\text{ }^\circ\text{C}$.
- Hard, brittle, and dimensionally stable.
- Tendency to form stress cracks.
- Moderate chemical stability.
- Typical products are, for example: Containers, cuvettes.



SI SILICONE RUBBER

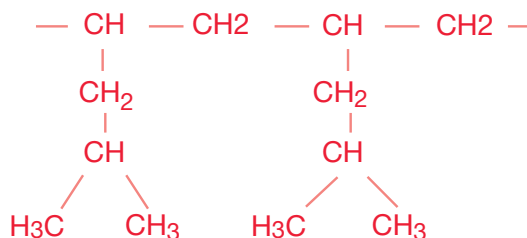
- Synthetic elastomer in which silicon atoms are linked together by oxygen atoms.
- Includes polyorganosilanes that have groups such as hydrogen atoms, hydroxyl groups or vinyl groups for cross-linking reactions.
- Very good thermal stability, and resistance to UV, ozone, and weather.
- Temperature range from $-60\text{ }^\circ\text{C}$ to $+180\text{ }^\circ\text{C}$.
- High dimensional stability, even at high temperatures.
- Very good durability, even at low temperatures.
- Poor chemical stability.



PMP(TPX)

Polymethylpentene (PMP) is a thermoplastic polymer of methylpentene monomer units. Polymethylpentene is a 4-methyl-1-pentene based linear isotactic polyolefin

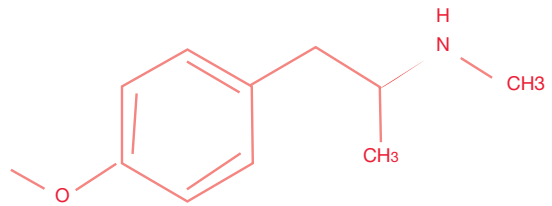
- High melting point and good temperature stability,
- Used for autoclavable medical and laboratory equipment
- Hard, solid material
- Excellent optical properties and is transparent.
- Low density (0.84 g/cm^3) and is of low weight.
- Chemical resistance, low moisture absorption, and exceptional acoustical and electrical properties.



PMMA (Acrylic)

Poly(methyl methacrylate) (PMMA) is a transparent thermoplastic often used as a lightweight or shatter-resistant alternative to soda-lime glass. It is called acrylic glass. Chemically, it is synthetic polymer of methyl methacrylate.

- Strong and lightweight material.
- Good impact strength, higher than both glass and polystyrene.
- Ignites at 460 °C
- Melting temperature 160° C
- Transmits up to 92% of visible light (3 mm thickness)
- Filters ultraviolet (UV) light at wavelengths below about 300 nm
- Used as a shield to stop beta radiation emitted from radioisotopes.

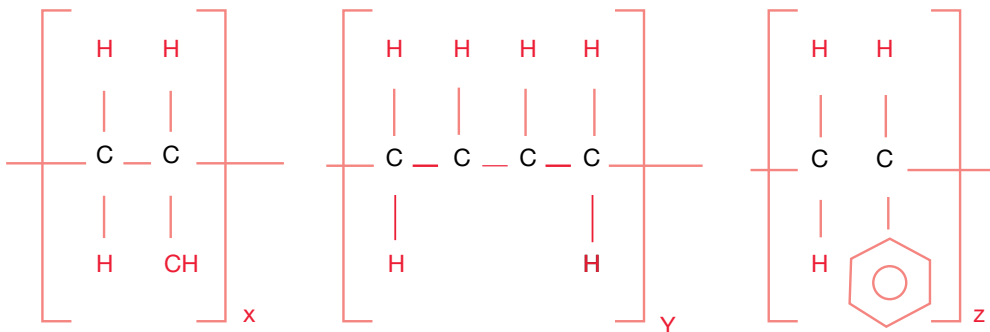


Generalized formula: (C₅O₂H₈)_n

ACRYLONITRILE BUTADIENE STYRENE (ABS)

ABS chemical formula is (C₈H₈)_x•(C₄H₆)_y•(C₃H₃N)_z

- Impact resistance and tough
- Temperature range from -20°C to 80°C
- Superior for its hardness, gloss, toughness, and electrical insulation properties.
- Melting point 105 °C



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P10408	16	P20216	19
P10423	16	P20217	19
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E11523	23	E11524	25
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E11525	23	E11526	25
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E11527	23	E11540	26
E11530	25	E11541	26
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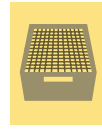


CRYO WARE

Code	Page No.	Code	Page No.
P60102	28	P60113	30
P60103	28	P60114 W	31
P60104 W	28	P60114 B	31
P60104 B	28	P60114 R	31
P60104 R	28	P60114 Y	31
P60104 Y	28	P60114 G	31
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P60109	30	P60106 A1	31
P60110	30	P60107 A	31
P60112	30	P60107 A1	31



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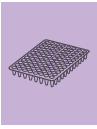
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P20603	32	U20309	37	P20209	41	P20718	46
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U21604	34	U20321	38	P20707	45	P70501	48
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U21607	34	U20324	38	P20710	45	P70504	48
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U21609	35	U20326	38	P20712	45		
U21610	35	U20327	38	P20713	45		
U21611	35	U20328	38	P20714	45		
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E10006	48	P10101	58	P10154	59	P10301	69
E10007	48	P10105	58	P20101	64	P10303	69
E10008	48	P10138	58	P20102	64	P10305	69
E10009	48	P10102	58	P20104	64	P10306	69
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P11114	92	P11411	95	P50604	100	P50302	102
P11115	92	P11412	95	P50605	100	P50303	102
P11121	92	P11501	96	P50606	100	P50304	102
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P11124	92	P11510	96	P50701	100	P50307	102
P11125	92	P11507	96	P50702	100	P50308	102
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P11202	93	P11505	96	P50705	100	P50403	102
P11203	93	P11506	96	P50706	100	P50404	102
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P11211	93	P11511	97	P50708	100	P50406	102
P11212	93	P11512	97	P50802	101	P50407	102
P11213	93	P11513	97	P50803	101	P50408	102
P11214	93	P11510	97	P50804	101	P50501	103
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P70104	104	P80110	107	E11215	111	E11193	118
P70101	104	P80111	107	E11225	112	E11194	118
P70102	104	P80112	107	E11226	112	E11195	118
P70103	104	P80113	107	E11227	112	E11196	118
P70105	105	P80114	107	E11228	112	E11196	118
P20302	105	P 80115	107	E11229	112	E11230	119
P20301	105	P 80116	107	E11231	113	E11270	120
P 80101	106	P 80117	107	E11232	113	E11271	120
P 80102	106	P80128	107	E11233	113	E11272	120
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P 80123	106	P 80130	108	E11333	115	E11281	121
P 80105	106	P 80131	108	E11334	115	E11282	121
P80125	106	P 80132	108	E11335	115	E11283	121
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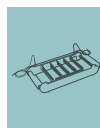


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HU6-SS	135	HU6-C1-16	135
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TERMS & CONDITIONS OF SALE

01. The Price list includes 'Abdos' Brand products and products from other manufacturers.
02. All prices are on door delivery basis within India for our consignee.
03. CST/VAT will be changed extra as applicable.
04. Prices are inclusive of excise Duty where applicable.
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07. This cancels all our previous price list.
08. Our responsibility ceases once we deliver the goods to the consignee.
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10. Goods will be dispatched in standard packing or multiple thereof.
11. Capacity measures are for laboratory use only and not for commercial use.
12. The company reserves the right to change the colour and modify the design.
13. The prices effective from 1st April, 2015.





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