

**CRYO TECHNIQUES**

Cryo Vial  
Freezing Tubes  
Storage Vial  
Cryo Box  
& More



## Freezing Tubes Sterile, PP ( - 80° C)

21

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	5200	97760
P60103	4.5 Sterile Skirted Foot	11.36	86.5	500	4200	78960

Abdos Freezing tubes are manufactured using high purity virgin polypropylene (PP) conforming to US FDA 21 CFR free from natural rubber, heavy metal.

Manufactured to be used at a temperature between -80° C to 121° C.

Large white frosted portion easy writing.

Silk-Screen graduation makes identification easy.

Build in plug in the cap makes it leak proof.

Sterile Tubes has been validated according to EN ISO 11137-2; 2012 for SAL 10<sup>-6</sup>



P60102



P60103

## Freezing Tube Coders, HDPE

22

Code	Colour of Cap	No. per Case	Price/Piece	Price/case (₹)
P60104 W	White	100	1.5	150
P60104 B	Blue	100	1.5	150
P60104 R	Red	100	1.5	150
P60104 Y	Yellow	100	1.5	150
P60104 G	Green	100	1.5	150

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 colours.



### Cryo Vial External Threaded Sterile, PP ( - 196° C)

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	5796	108965
P60116	1.8 Sterile Star Foot	12.00	48.5	1000	6417	120640
P60117	1.8 Sterile Round Bottom	12.00	47.5	1000	6417	120640
P60118	4.5 Sterile Skirted Foot	11.36	86.5	500	4554	85615



P60115 P60116



P60117 P60118

Abdos Cryo Vial external thread are manufactured using high purity virgin polypropylene (PP) conforming to US FDA 21 CFR free from natural rubber, heavy metal.

Abdos Cryo Vial is designed for long-term cryogenic storage of biological sample, all type of cells and any enzymes or reagents.

Its leak-proof cap design and strong wall thickness make it an ideal product for transporting samples and specimens.

These cryo vials are designed for mechanical freezing and its screw cap reduces the risk of contamination due to handling.

Manufactured to be used at a temperature between -196° C to 121° C.

The large white frosted portion for easy writing.

Graduation in silk-screen printing makes identification easy.

Unique Star Foot design allows for single hand operation and grooves into Abdos P20616 single hand cryo holder rack.

Available in self-standing reclosable zipper bags.

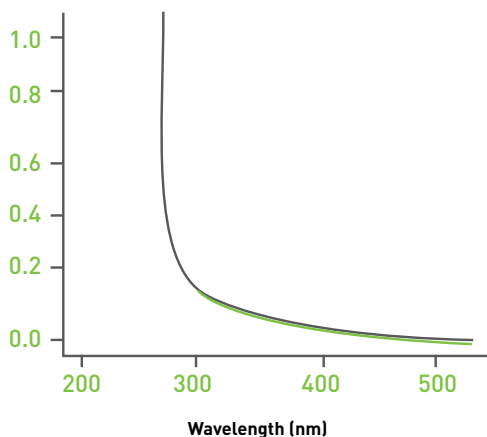
Abdos cryo vials are certified IVD product Recital 29 of the directive 98 / 79 / EC on in Vitro Diagnostic Medical Devices.

Sterile Tubes has been validated according to EN ISO 11137-2; 2012 for SAL 10<sup>-6</sup>



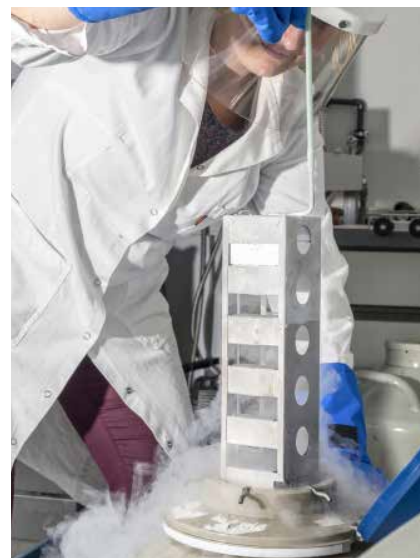
\* Pls note compatible coders for P60118 Cryo Vial 4.5 ml Skirted Foot is P60104.

### Leeching Performance Report with DMSO



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

\* 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.



Abdos Cryo Vial being taken out from a liquid Nitrogen cannister

## Cryo Vial Internal Threaded Sterile with Silicone Seal, PP ( - 196° C)

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	8750	164500
P60109	1.8 Sterile Star Foot	12.3	47.5	1000	8800	165440
P60110	1.8 Sterile Round	12.3	46.2	1000	8800	165440
P60112	4.5 Sterile Star Foot	12.3	90.3	500	6350	119380
P60113	4.5 Sterile Round Bottom	12.3	89	500	6350	119380

Abdos Cryo Vial Internal thread are manufactured using high purity virgin polypropylene (PP) confirming to US FDA 21 CFR free from natural rubber, heavy metal.

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 with Silicon Seal and strong wall thickness make it an ideal product for transporting samples and specimens.

These cryo vials are designed for vapour phase liquid nitrogen freezing and also incorporate a silicone seal to enhance cap sealing.

Manufactured to be used at a temperature between -196° C to 121° C.

The large white frosted portion for easy writing.

Graduation in silk-screen printing makes identification easy.

Unique Star Foot design allows for single hand operation and grooves into Abdos P20616 single hand cryo holder rack.

Available in self-standing reclosable zipper bags.

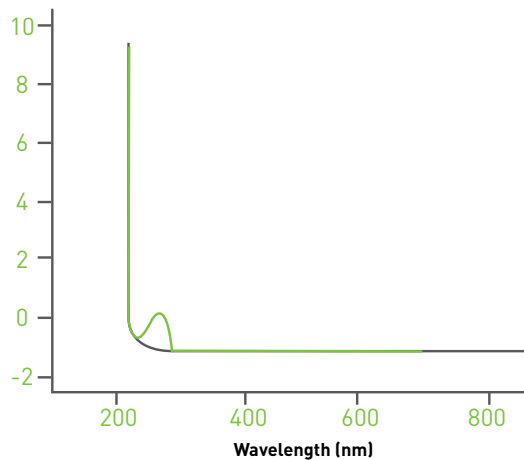
The silicon ring used in Abdos Cryo Vial for Sealing effects is made up of the material & ingredient under the code of federal regulation 21, as per 21 CFR 177.2600 (G) & meets USP – Class VI Regularities under plastic vial & Cap.

Abdos cryo vials are certified IVD product Recital 29 of the directive 98 / 79 / EC on in Vitro Diagnostic Medical Devices.

Sterile Tubes has been validated according to EN ISO 11137-2; 2012 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.

\*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 the vapour phase of liquid nitrogen.



P60113

P60112



P60110

P60109



P60108

### Cryo Coders for External & Internal Threaded Vials, HDPE

Code	Colour	No. Per Case	Price /Piece	Price / Case (₹)
P60114 W	White	100	1.5	150
P60114 B	Blue	100	1.5	150
P60114 R	Red	100	1.5	150
P60114 Y	Yellow	100	1.5	150
P60114 G	Green	100	1.5	150

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 colours.



### Storage Vial, PP

#### 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	2880	54144
P60106	2.0	11.8	47.2	1000	2880	54144
P60107	5.0	11.8	88	1000	3500	65800

#### Storage Vial, Amber

Code	Capacity (ml)	Outer Diameter (mm)	Height (mm)	No. Per Case	Price/ Case (₹)
P60119A	1.0 Amber	12	41	1000	3750
P60119A1	1.0 Transparent Amber	12	41	1000	3750
P60106A	2.0 Amber	11.36	47.2	1000	3800
P60106A1	2.0 Transparent Amber	11.36	47.2	1000	3800
P60107A	5.0 Amber	11.36	88	1000	4800
P60107A1	5.0 Transparent Amber	11.36	88	1000	4800



Abdos Storage vial is manufactured using high purity virgin polypropylene (PP) conforming to US FDA 21 CFR free from natural rubber, heavy metal.

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.



## Single Hand Cryo Holder Rack, PC

27

Code	Tube Capacity (ml)	Places	L x W x H (mm)	No. per Case	Price / Case (₹)
P20616	1 - 2	40 (10 x 4 Array)	201 x 105 x 22	4	1505

Designed for use with Cryogenic Vial, Freezer Tubes, Storage Vial and Micro Tubes.

Inbuilt numbered and letters grid for sample identification.

The rack has a secure locking system in each well that will not allow the Cryo Vial

to turn on either side.

It has unique innovative locking system allowing the user to unlock star foot Cryo Vial with one hand.

Anti-skid rubber feet support the rack.



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

## Cryo Box, PC

28

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	1200
P20601 Assorted	1 - 2	25 (5 x 5 Array)	75 x 75 x 54	8	1200
P20602	1 - 2	81 (9 x 9 Array)	133 x 132 x 54	4	1500
P20602 Assorted	1 - 2	81 (9 x 9 Array)	133 x 132 x 54	4	1500
P20603	5	81 (9 x 9 Array)	133 x 132 x 97	2125	
P20603 Assorted	5	81 (9 x 9 Array)	133 x 132 x 97	4	2125

Manufactured of strong polycarbonate and designed to be used at a 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.

Lids have numbered grid for sample identification. The surface of the lid has a frosted area suitable for writing with

markers, facilitating inventory control. These boxes create small, space-efficient storage system within a large mechanical freezer.

The dimensions of the cryo box are compatible with vertical, horizontal and drawer style freezer racks.

Specially Designed venting in base & lid ensures a smooth flow for vapours for consistency in cooling.



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

### Cryo Box, System 100 Place, PC

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	1750
P20611	1 - 2	100 (10x10 Array)	140 x 140 x 54	4	1750

Manufactured of strong polycarbonate and designed to be used at a 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 10x10 array (100 places) that can optimize the storage volume of the end user.

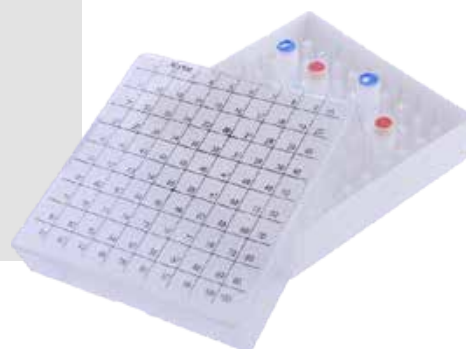
These boxes create small, space-efficient storage system within a large mechanical freezer.

Transparent lids permit viewing of contents.

Lids have numbered grid for sample identification.

The surface of the lid has a frosted area suitable for writing with markers, facilitating inventory control.

The dimensions of the P20615 Cryo Box are compatible with vertical, horizontal and drawer style freezer racks.



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

### Cryo Cube Box / Storage Cube Box, PP

Code	Tube Capacity (ml)	Places	Colour	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)	White, Yellow, Blue	142 x 85 x 59	8	1240
P20614	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	81 (9 x 9 Array)	White, Yellow, Blue	130 x 130 x 55	4	1090
P20607	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	100 (10 x 10 Array)	White, Yellow, Blue	140 x 140 x 55	4	1185

Manufactured in state of the art moulding facility using high purity polypropylene.

These boxes are stackable, versatile and designed for sample storage up to -80° C.

These boxes help you to meet storage requirements of 1.5 - 2.0 ml microtubes and 1.0 to 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 to the base and ultra smooth locking system ensures secure closure preventing accidental opening of these boxes in deep freezers.

Inbuilt numbers and letters grid for sample identification.



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

## Freezing Cardboard Cryo Boxes, Cardboard

31

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	1350
P20613	1.5 - 2 Micro Tube & 1 - 2 Cryo Tubes	100 (10 x 10 Array)	132 x 132 x 50	8	1350

Designed for storage and preservation of frozen samples.

Can withstand ultra-low temperature in deep freezers.

The removable top lid makes it easy to open and close.

These boxes can be used for upright freezers, drawers & chest freezers with dividers.

Lamination on these boxes does not allow moisture to soak or liquid to stick on these boxes.



## Cryo Gloves

32

Code	Size	No. per case	Price /Case (₹)
U20307	Wrist S	1 Pair	11130
U20308	Wrist M	1 Pair	11130
U20309	Wrist L	1 Pair	11130
U20310	Wrist XL	1 Pair	11130
U20311	Mid Arm S	1 Pair	11618
U20312	Mid Arm M	1 Pair	11618
U20313	Mid Arm L	1 Pair	11618
U20314	Mid Arm XL	1 Pair	11618
U20315	Elbow S	1 Pair	14710
U20316	Elbow M	1 Pair	14710
U20317	Elbow L	1 Pair	14710
U20318	Elbow XL	1 Pair	14710



These cryogenic gloves protect your hands and arms when working in hazardous, ultra-cold environments.

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.

These gloves have an innovative design that offers superior thermal protection allowing for a maximum level of flexibility and dexterity.

High performance, thermal inner lining wicks moisture away from hands, maintaining comfort over extended periods.

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



## Cryo Apron

33

Code	Size (inch)	No. per Case	Price /Case (₹)
U20331	36	1	14500
U20332	42	1	15790
U20333	48	1	17400
U20334	54	1	18685



These Cryo aprons provide a high level of thermal protection to the torso and upper legs in harsh cryogenic atmospheres.

These Cryogenic aprons have quick-release buckles at the neck and waist for added safety and function.

Multi-layered construction allows for the maximum level of thermal protection and waterproof nylon outer shell protects you from cryogenic splashes and keeps you safe and comfortable.

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

## Water Proof Cryo Gloves

34

Code	Size	No. per Case	Price /Case (₹)
U20319	Wrist S	1 Pair	14500
U20320	Wrist M	1 Pair	14500
U20321	Wrist L	1 Pair	14500
U20322	Wrist XL	1 Pair	14500
U20323	Mid Arm S	1 Pair	14625
U20324	Mid Arm M	1 Pair	14625
U20325	Mid Arm L	1 Pair	14625
U20326	Mid Arm XL	1 Pair	14625
U20327	Elbow S	1 Pair	19330
U20328	Elbow M	1 Pair	19330
U20329	Elbow L	1 Pair	19330
U20330	Elbow XL	1 Pair	19330



These cryogenic gloves protect your hands and arms when working in hazardous, ultra-cold environments.

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.

These gloves are designed to provide a high level of thermal protection where the exposure to cryogenic fluids might exist.

These gloves are multi-layered and allow for a maximum level of thermal protection, flexibility and dexterity essential feature when the 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