CryoClear™

Cryogenic Vials



Innovation

for the long-term storage of
your precious samples.

CryoClear™ Cryogenic Vials

Innovation to protect your precious samples.

Globe Scientific's CryoClear™ vials are designed for the cryogenic storage and transport of biological specimens at temperatures as low as -196ºC.

The vials feature an innovative screw cap that is co-molded with a layer of thermoplastic elastomer (TPE). This special process provides the leak-proof benefits of an o-ring, while eliminating the risk of contamination and sample loss associated with the use of separate o-rings. The caps feature a star shaped top cavity that is engineered to work with automatic decapping equipment. Each vial is printed with a unique barcode that may be used for automated data collection, accurate sample inventory or to conceal the sample's identity.







CryoClear™ vials are packaged in heavy-duty, tamper-proof, resealable bags of 50. They are available for purchase by the bag or case of 500.

ty Guaranteed:

- Manufactured, assembled and packaged in an ISO 7 (Class 10,000) cleanroom and never exposed to outside contaminants. Meets FDA, GMP and ISO Quality Standards.
- Lot certified: samples from every lot are shipped to an independent laboratory where they are certified to be Human DNA free, DNase free, RNase free, Pyrogen free and ATP free.

Technical Details:

- Temperature range: -196º to 121ºC
- Autoclavable
- Sterilized by beta radiation (SAL 10^{-6})
- Pressure tested at 95 kPa (0.95 bar, 14 psi)

Material:

Tube: Medical grade polypropylene (PP)

Cap: Medical grade polyethylene (PE) co-molded with thermoplastic elastomer (TPE)

Innovation.

Color coded inserts are available to fit both internal and external caps for quick sample identification

Star shaped top cavity is engineered for use with automatic decapping equipment

Innovative screw caps are produced from medical grade polyethylene (PE) and are co-molded with a thermoplastic elastomer (TPE) to provide a 100% leak-proof seal

Chemical resistant caps

Slim profile external caps ensure better fit in standard racks and boxes

Produced from medical grade raw materials that will not discolor after re-sterilizing

Vials and caps are autoclavable

Standard code 128 barcode on each vial includes human readable characters printed in both left and right hand orientation for easy readability by all users.

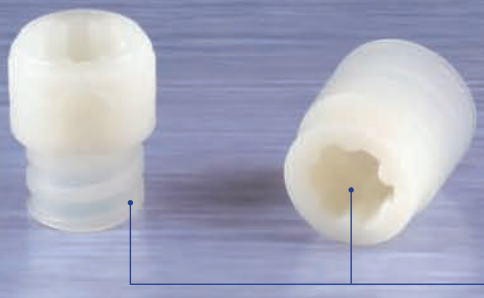
Printed graduations for accurate measurements

White writing surface for specimen identification

Chemical resistant polypropylene (PP) vial

Available with round bottoms or self-standing

Self-standing vials interlock in Globe workstations



Our innovative screw caps eliminate leakage and contamination.

CryoClear™ screw caps are co-molded with a thermoplastic elastomer (TPE) layer and are 95kPa certified to provide a 100% leak-proof seal. This proprietary molding process eliminates the risk of contamination associated with brands that use separate o-rings.

CryoClear™ Cryogenic Vials

Internal Threaded Vials (shown actual size)



Order Number	3001	3002	3003	3004	3005	3006	3008
Volume	1 mL	2 mL	2 mL	4 mL	4 mL	5 mL	5 mL
Height*	42.8 mm	48.4 mm	47.2 mm	75.1 mm	76.4 mm	89.4 mm	90.5 mm
Vial O.D.	12.5 mm	12.5 mm	12.5 mm	12.5 mm	12.5 mm	12.5 mm	12.5 mm
Style	Self standing	Self standing	--	--	Self standing	--	Self standing
Bottom	Conical	Round	Round	Round	Round	Round	Round
Packaging	500/case, 10 bags of 50 vials (Also sold by the bag of 50)						

**Height with caps attached.*

Tamper Evident, Resealable and Lot Traceable Packaging

All CryoClear™ cryogenic vials are sold in heavy-duty, tamper evident resealable plastic bags.

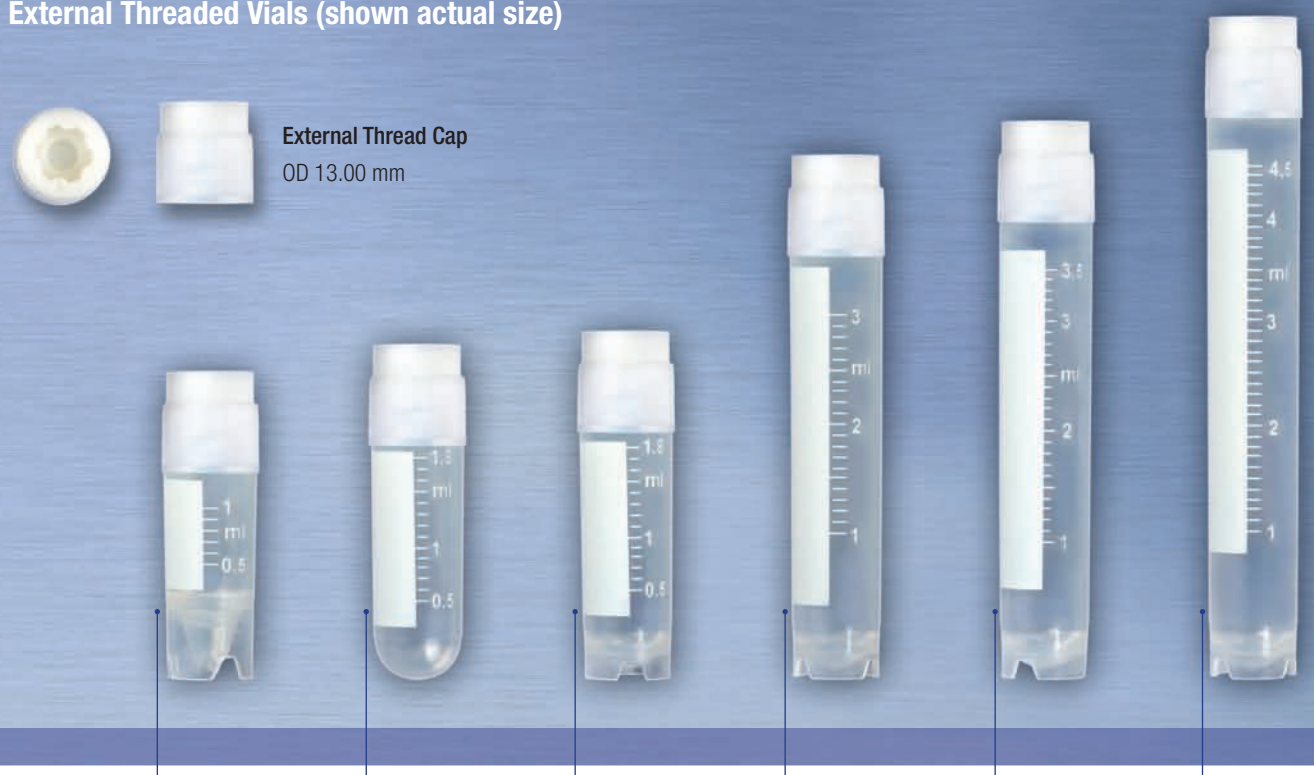
- 50 vials per bag, 10 bags per case

Heavy-duty, tamper evident resealable plastic bags

Each bag labeled with manufacture date and barcoded lot number for traceability



External Threaded Vials (shown actual size)



Order Number	3010	3011	3012	3013	3014	3015
Volume	1 mL	2 mL	2 mL	3 mL	4 mL	5 mL
Height*	41.5 mm	45.9 mm	47.0 mm	70.7 mm	75.1 mm	89.3 mm
Vial O.D.	12.5 mm	12.5 mm	12.5 mm	12.5 mm	12.5 mm	12.5 mm
Style	Self standing	--	Self standing	Self standing	Self standing	Self standing
Bottom	Conical	Round	Round	Round	Round	Round
Packaging	500/case, 10 bags of 50 vials (Also sold by the bag of 50)					

**Height with caps attached.*

Cap Inserts

Cap inserts are available in assorted colors and are ideal for color coding and sample identification. The inserts snap easily into place on both internal and external caps.

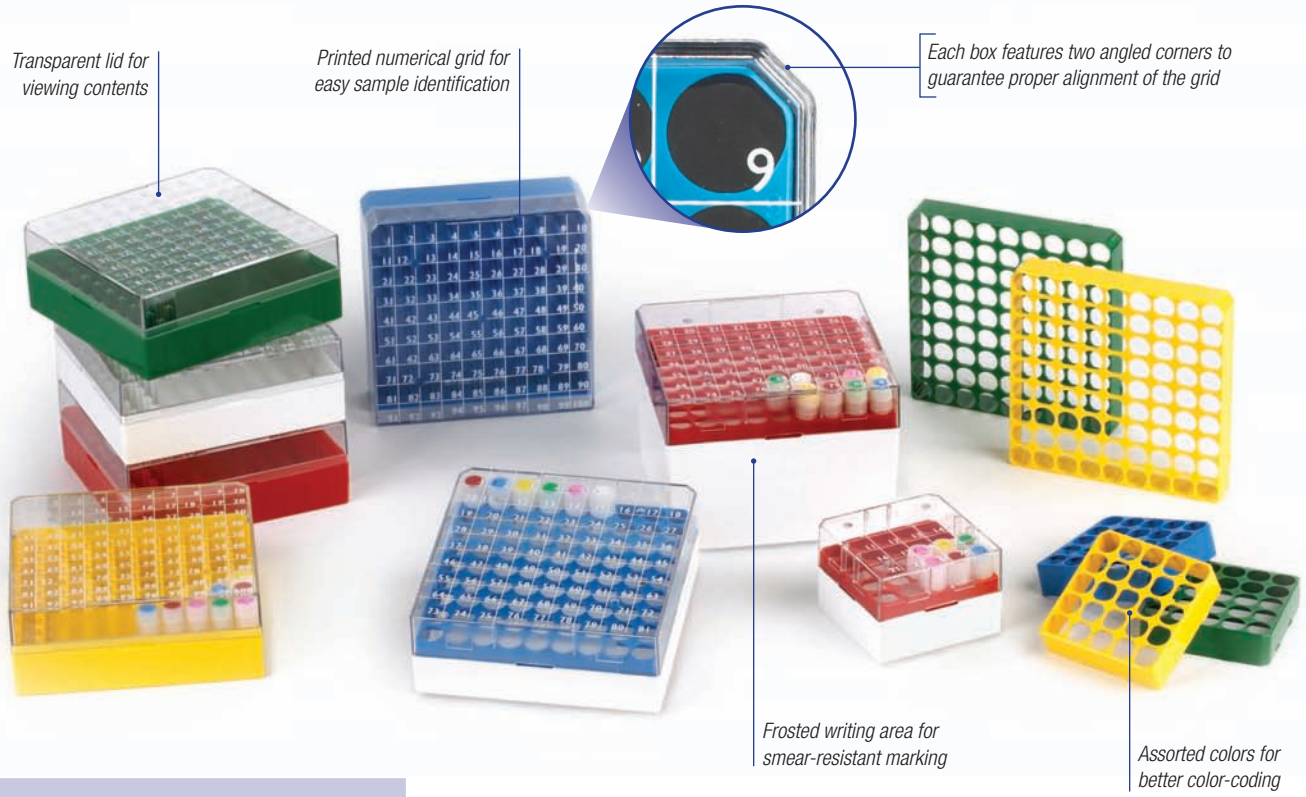
- Polypropylene (PP)
- Ideal for color coding samples



Item #	Description	Unit
30079A	Gray	1000
30079B	Blue	1000
30079G	Green	1000
30079N	Orange	1000
30079P	Pink	1000

Item #	Description	Unit
30079R	Red	1000
30079V	Violet	1000
30079W	White	1000
30079Y	Yellow	1000
30079AST	Assorted	600

BioBox™ Plastic Storage Boxes



BioBOX™ Storage Boxes with Transparent Lids

Produced from polycarbonate (PC), these storage boxes are designed to withstand temperatures of -196°C to +121°C. The boxes are available in 25-place, 81-place and 100-place sizes and are available in assorted colors.

- Polycarbonate (PC)
- Temperature range: -196°C to +121°C
- Frosted writing area for smear-resistant marking
- Printed numerical grid for easy sample identification
- Transparent lid for viewing contents
- Each box features two angled corners to guarantee proper alignment of the grid
- Autoclavable at 121°C, 15 psig (1 bar) for 20 minutes
- Boxes have vent holes for drainage and rapid freezing
- Fits in stainless steel freezer racks
- A plastic vial picker (item #30078) is supplied with each BioBox™

BioBoxes for 1 & 2mL Vials

Item #	Description	Dimensions (L x W x H)	Unit
3039B	25-place (5x5), blue	76 x 76 x 52mm	8
3039G	25-place (5x5), green	76 x 76 x 52mm	8
3039R	25-place (5x5), red	76 x 76 x 52mm	8
3039Y	25-place (5x5), yellow	76 x 76 x 52mm	8
3040B	81-place (9x9), blue	132 x 132 x 52mm	5
3040G	81-place (9x9), green	132 x 132 x 52mm	5
3040R	81-place (9x9), red	132 x 132 x 52mm	5
3040Y	81-place (9x9), yellow	132 x 132 x 52mm	5
3050B	100-place (10x10), blue	132 x 132 x 52mm	5
3050G	100-place (10x10), green	132 x 132 x 52mm	5
3050R	100-place (10x10), red	132 x 132 x 52mm	5
3050W	100-place (10x10), white	132 x 132 x 52mm	5
3050Y	100-place (10x10), yellow	132 x 132 x 52mm	5

BioBoxes for 3, 4 & 5mL External & 5mL Internal Vials

Item #	Description	Dimensions (L x W x H)	Unit
3042B	81-place (9x9), blue	132 x 132 x 94mm	4
3042G	81-place (9x9), green	132 x 132 x 94mm	4
3042R	81-place (9x9), red	132 x 132 x 94mm	4
3042Y	81-place (9x9), yellow	132 x 132 x 94mm	4



Vial Picker/Storage Boxes/ Workstation Racks

Vial Picker

For the safe and convenient removal of frozen vials from storage boxes.

- Thermoplastic elastomer (TPE)

Item #	Color	Unit
30078	Blue	10



Cardboard Storage Boxes

These economical boxes are designed for the long term storage of cryogenic vials in freezer rack systems. They have a liquid-resistant outer coating.

- Heavy-duty cardboard
- Temperature range: -196°C to +121°C
- Fits in stainless steel freezer racks

Additional colors available by special order.

Storage Box for 2" Tall Vials

Dimensions: 134 x 134 x 47mm

Item #	Description	Units
3090	64 place (8x8), white, for up to 2" tall x 15mm wide vials	Each & 96
3091	81 place (9x9), white, for up to 2" tall x 13mm wide vials	Each & 96
3092	100 place (10x10), white, for up to 2" tall x 12mm wide vials	Each & 96

Storage Box for 3" Tall Vials

Dimensions: 134 x 134 x 76mm

Item #	Description	Units
3094	64 place (8x8), white, for up to 3" tall x 15mm wide vials	Each & 48
3094Y	64 place (8x8), yellow, for up to 3" tall x 15mm wide vials	Each & 48
3095	81 place (9x9), white, for up to 3" tall x 13mm wide vials	Each & 48
3096	100 place (10x10), white, for up to 3" tall x 12mm wide vials	Each & 48

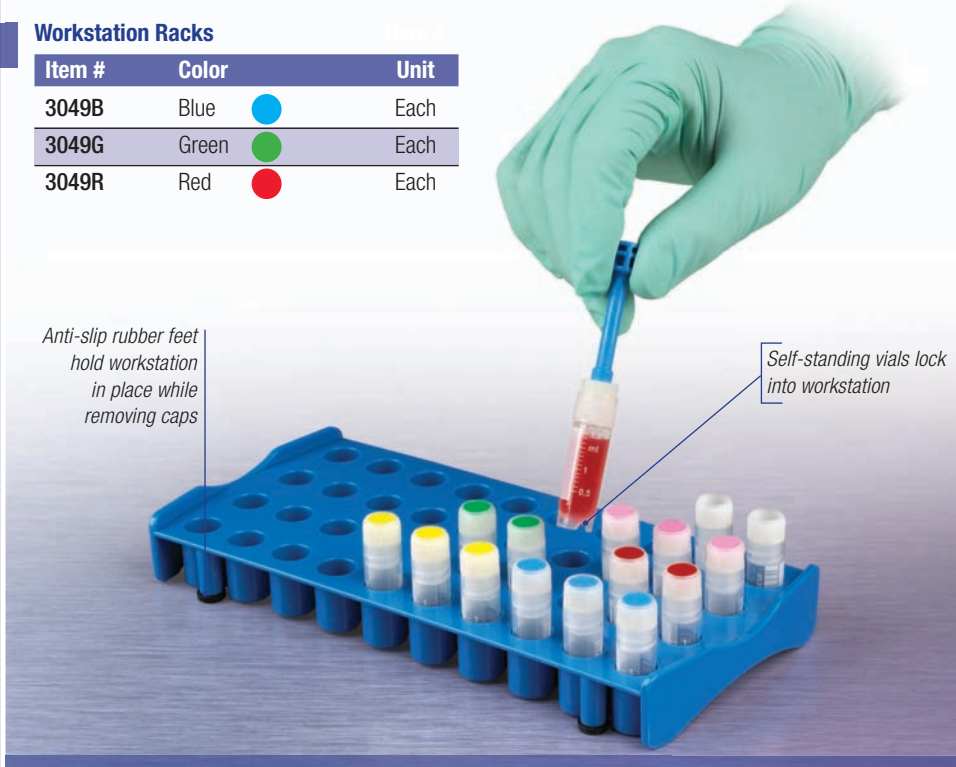
Workstation Racks

Globe workstations accommodate both round bottom and self-standing CryoClear™ cryogenic vials. The self-standing vials lock into the rack for easy one-handed opening and closing of caps.

- 40-Place (10 x 4 format)
- Polycarbonate (PC)
- Anti-slip rubber feet
- Autoclavable at 121°C, 15 psig (1 bar) for 20 minutes
- Temperature range: -196°C to +121°C
- Dimensions: 215 x 100 x 25mm

Workstation Racks

Item #	Color	Unit
3049B	Blue	Each
3049G	Green	Each
3049R	Red	Each



Technical Specifications/ Product Certifications

Technical Specifications

Material: Tube:	Medical/FDA Polypropylene (PP)
Cap:	Medical/FDA Polyethylene (PE) co-molded with a thermoplastic elastomer (TPE) layer
Sterilization:	Beta radiation
SAL level:	10^{-6}
Autoclavable:	Tubes and caps
Temperature range:	-196º to +121ºC
Mold release agents:	None used in manufacturing
Maximum psi:	14.5 psi
Maximum centrifugation speed:	17530 xg (To obtain RPM, verify the diameter of the centrifuge and convert)

For use in the vapor phase of liquid nitrogen.

WARNING - DO NOT USE CRYOCLEAR™ VIALS IN THE LIQUID PHASE OF LIQUID NITROGEN.

Printing on the tubes is resistant to the following common laboratory chemicals:

Isopropyl alcohol:	5-100%
Butanol:	100%
DMSO:	10-20%
Bleach:	5%
Acetic acid:	10%
Hydrochloric acids:	10%
NaOH:	10%



Product Certificatons

Manufacturing environment:	Produced, assembled and packaged in a ISO 7 cleanroom (Class 10,000) in accordance with quality guidelines ISO 13485:2004, ISO 14644, ISO 14698 (Federal Standard 209), ISO 14000 and ISO 18000
Material:	Virgin raw materials are tested according to the “United States Pharmacopia” (USP) and with the “drug master file” (DMF) at the FDA, certified under USP Class VI
CONEG:	This product meets CONEG requirements and therefore does not contain heavy metals in the color concentrate
Sterilization:	Sterilzed in accordance with EN ISO 11137
DNase, RNase and pyrogen free:	Every lot is certified* by an independent laboratory to be free of DNase, RNase and pyrogens
Human DNA and ATP free:	Every lot is certified* by an independent laboratory to be free of Human DNA and ATP
Non-cytotoxic:	This product is certified* to be free of cytotoxins
Non-hemolytic:	This product is certified* to be free of articles causing hemolysis
In vitro Diagnostic Medical Device:	Complies with Directive 98/79/EC of the European Parliament and the Council of 27 October 1998 on in vitro diagnostic medical devices
Leak proof:	Tubes are certified leak proof at a pressure of 95 kPa (0.95 bar, 14.5 psi) by applying a closure force of not less than 8 cNm
IATA (International Air Transportation Association):	Can be used as a primary receptacle for the transport of diagnostic specimens as outlined by the IATA Dangerous Goods Regulations, Part 6.3,5

**Certificate of Analysis available upon request.*