

CryoClear™

Cryogenic Vials



Innovation

for the long-term storage of
your precious samples.

globe®
SCIENTIFIC INC.

Thomas
Scientific

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 -196°C.

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. 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.



Purity 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: -196° to 121°C
- 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)



CryoClear™ vials are available for purchase in bags of 50 vials and cases of 10 bags of 50 vials. Each bag of 50 vials is heavy-duty, tamper-proof and resealable.

Innovation.

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

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

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

Printed graduations for accurate measurements

White writing surface for specimen identification

Available with round bottoms or self-standing

Chemical resistant caps

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.

Chemical resistant polypropylene (PP) vial

Self-standing vials interlock in Globe workstations



Our innovative screw caps eliminate leakage and contamination.

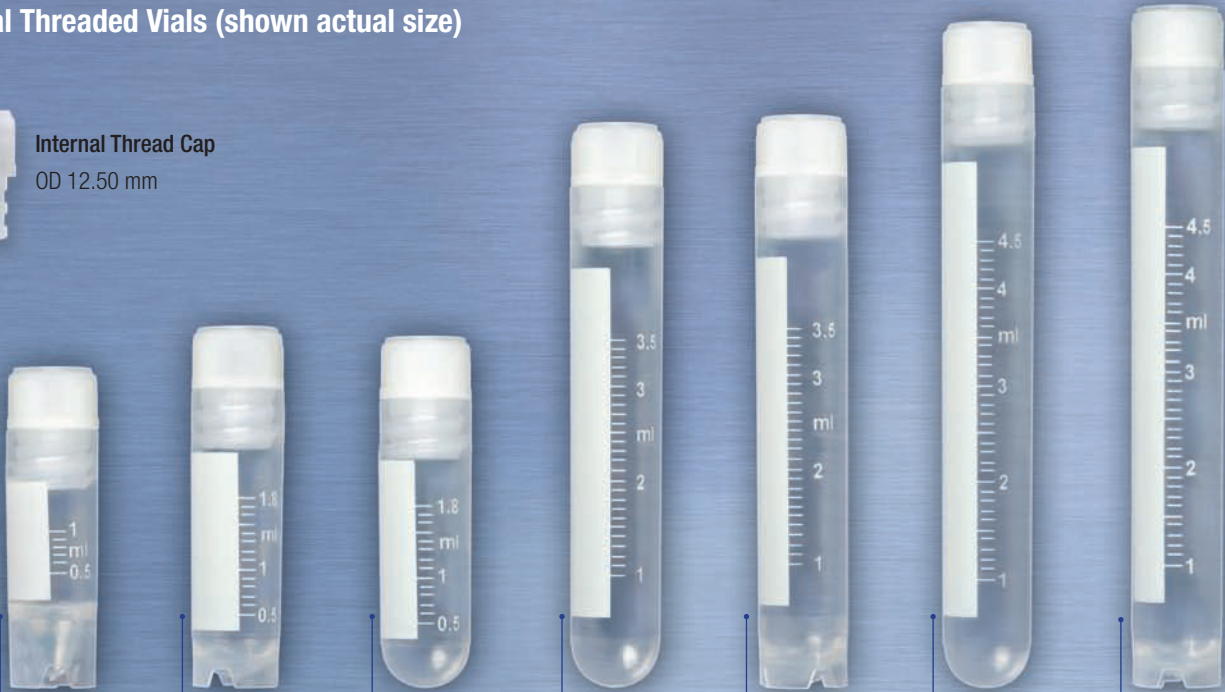
CryoClear™ screw caps are co-molded with a thermoplastic elastomer (TPE) layer and are 95kPa certified to provide a 100% leak-proof seal. This proprietary molding process eliminates the risk of contamination associated with brands that use separate o-rings.

CryoClear™ Cryogenic Vials

Internal Threaded Vials (shown actual size)



Internal Thread Cap
OD 12.50 mm



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*	42.7 mm	48.0 mm	47.0 mm	75.1 mm	76.1 mm	89.3 mm	90.4 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)



External Thread Cap
OD 14.30 mm



Order Number	3010	3011	3012	3013	3014	3015
Volume	1 mL	2 mL	2 mL	3 mL	4 mL	5 mL
Height*	40.1 mm	44.5 mm	45.5 mm	69.3 mm	73.9 mm	88.1 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.

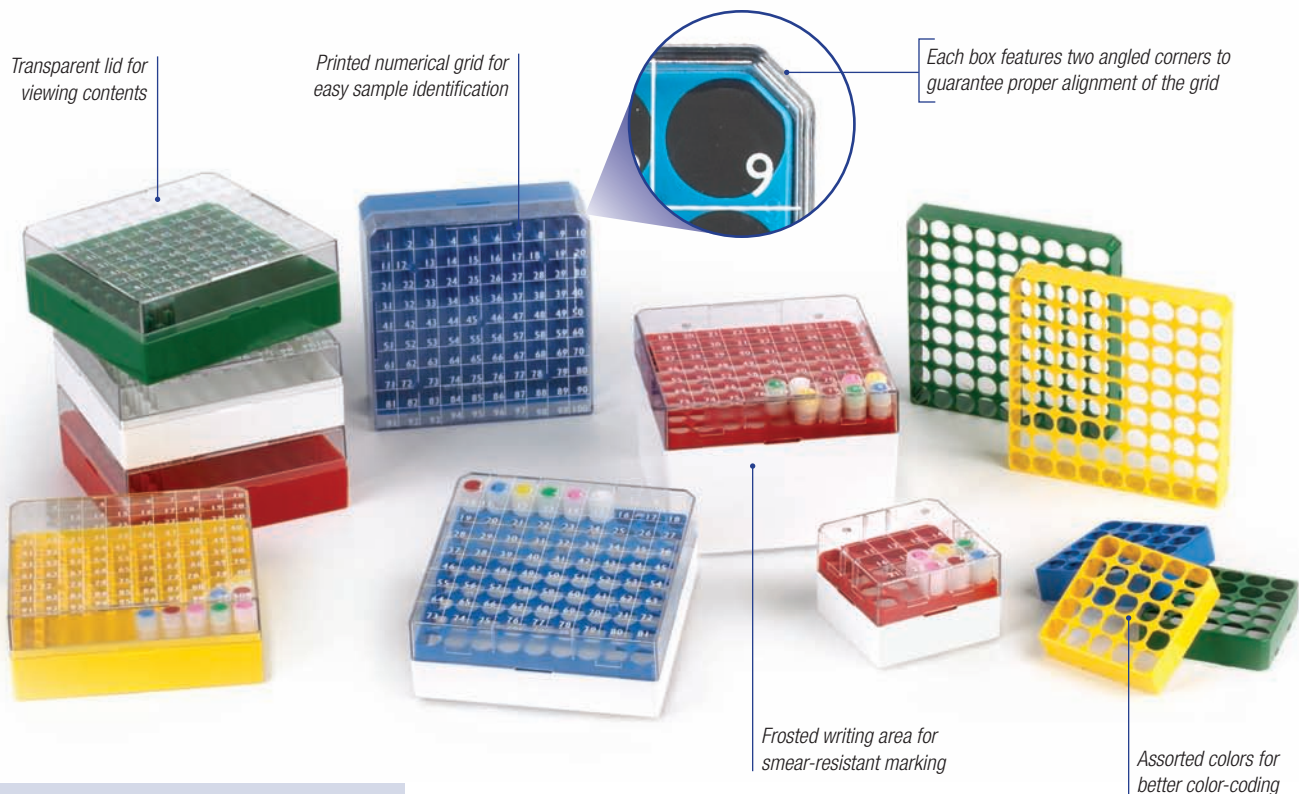
- Polypropylene (PP)
- Ideal for color coding samples



Item #	Description	Packaging Options
30075AST	Assorted	6 x 100/bag
30075B	Blue 	100/bag & 1000/bag
30075G	Green 	100/bag & 1000/bag
30075P	Pink 	100/bag & 1000/bag
30075R	Red 	100/bag & 1000/bag
30075Y	Yellow 	100/bag & 1000/bag
30075W	White 	100/bag & 1000/bag

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



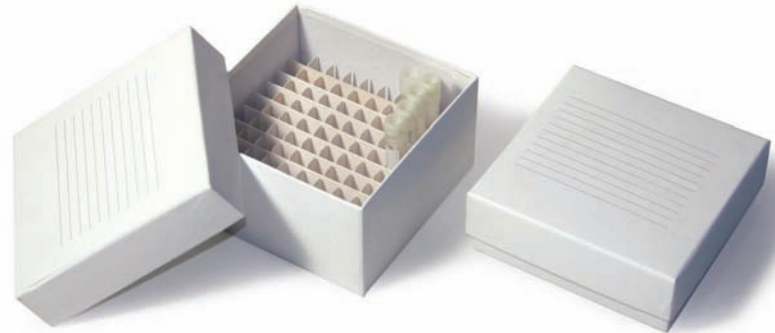
Vial Picker/Storage Boxes/ Workstation Racks

Vial Picker

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

- Thermoplastic elastomer (TPE)

Item #	Color	Unit
30078	Yellow	Bag of 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	Packaging Options
3090	64 place (8x8), white, for up to 2" tall x 15mm wide vials	Each & 96/case
3091	81 place (9x9), white, for up to 2" tall x 13mm wide vials	Each & 96/case
3092	100 place (10x10), white, for up to 2" tall x 12mm wide vials	Each & 96/case

Storage Box for 3" Tall Vials

Dimensions: 134 x 134 x 76mm




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

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



Anti-slip rubber feet hold workstation in place while removing caps

Self-standing vials lock into workstation



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:	-196° to +121°C
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 Certifications

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:	Sterilized 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.



We Believe You Are Important

— How Can We Help?

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