# 4mL CryoClear™ Sterile, Barcoded Cryogenic Vials

## Item# 3004 - Internal thread, round bottom













Item# 3004 (shown actual size)

All CryoClear™ cryogenic vials are sold in tamper evident, resealable plastic bags. 50 vials per bag, 10 bags per case.

## Description

Globe Scientific's CryoClear™ vials are designed for cryogenic storage and transport of biological specimens at temperatures as low as -196°C. This innovative line features outstanding leak resistance and purity due to the special thermoplastic elastomer layer that is co-molded with the screw cap. The caps feature a star shaped top cavity that is engineered to work with automated capping/decapping equipment. Each vial has a unique printed barcode for automated data collection, accurate sample inventory, and to conceal the sample's identity. The vials have printed graduation marks for exact measurements and a large white writing area for manual specimen identification.

## Features and Benefits

- Screw caps are molded with a thermoplastic elastomer (TPE) layer to provide a 100% leak-proof seal
- Star shaped top cavity is engineered for use with automated capping/decapping equipment
- Unique barcode printed on each vial for automated data collection
- White writing surface for specimen identification
- Printed graduations for accurate measurements
- Vials and caps are autoclavable
- Produced from medical grade raw materials that will not discolor after re-sterilizing
- Chemical resistant polypropylene vial
- Tamper evident packaging
- Self-standing vials interlock in Globe workstation

## Products

| Item# | Description | Packaging |
|---|---|---|
| **3004** | 4mL, sterile cryogenic vial, internal thread, round bottom | 50 per bag, 500 per case |

# 4mL CryoClear™ Sterile, Barcoded Cryogenic Vials

## Item# 3004 - Internal thread, round bottom

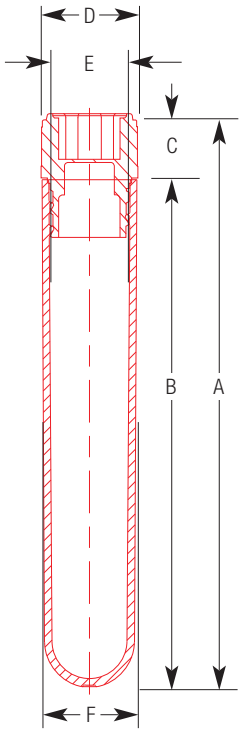
### Technical Specifications

| | |
|---|---|
| Material: Vial: | 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: | Vials 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) |

*Printing on the vials 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% |

| 4mL - Internal Thread | | |
|---|---|---|
| A | Overall Height | 75.1mm |
| B | Vial Height | 66.9mm |
| C | Cap Height | 8.3mm |
| D | Cap O.D. | 12.3mm |
| E | Vial I.D. | 10.0mm |
| F | Vial O.D. | 12.5mm |




### 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: | Vials 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.*