

Corning® Cryogenic Vials

A New and Improved Way to Manage Your Samples

CORNING



Improve Your Sample Management with Corning® Bar Coded Cryogenic Vials

As labs handle increasing numbers of samples, the use of streamlined systems can save time and improve the sample management process. One way to simplify sample management and ensure reliable chain of custody is to use Corning bar coded cryogenic vials. Our cryogenic vials have a permanent 2D bar code on the bottom and a standard linear (1D) bar code on the side of the vial with human readable characters in both left- and right-hand orientation.

The two dimensional codes allow the storage of multiple to hundreds of pieces of information in a minimal space. 2D bar codes can be used to encode sample data lot details, and much more.

Other features of Corning bar coded cryogenic vials include:

- ▶ Industry standard Datamatrix 2D encoding
- ▶ Innovative internal and external screw caps that provide a leak-proof seal
- ▶ Star-shaped top cavity is engineered for use with automatic capping/decapping equipment
- ▶ Polypropylene construction to withstand temperatures to -196°C
- ▶ Locking base to prevent tubes from rotating within the rack/workstation during capping and decapping.
- ▶ Nonpyrogenic
- ▶ RNase-/DNase-free
- ▶ Every tube is checked to ensure it meets exacting readability standards.



Keep Your Samples Safe with Corning Cryogenic Vials

If you prefer to manually label your samples, Corning offers a number of cryogenic vial solutions to protect your valuable cells, biological solutions, and aqueous solutions in ultra-low temperature storage. Choose from external or internal thread caps and six color cap options to suit your needs.

The superior performance of Corning's cryogenic vials is delivered through a combination of several features:

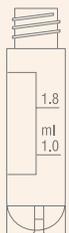
- ▶ Full working temperature range from autoclaving (+121°C) to liquid nitrogen storage (-196°C)
- ▶ Nonpyrogenic
- ▶ RNase-/DNase-free
- ▶ Virgin polypropylene that meets USP Class VI requirements
- ▶ Internal thread styles are available with either silicone washers or rubber O-rings for a secure seal
- ▶ External thread styles are available with silicone washers for a secure seal
- ▶ Self-standing, with a special base design, which allows them to be easily locked into a Corning cryogenic rack or tray
- ▶ Sterile
- ▶ Black graduations with large white marking spot

Corning Cryogenic Vials



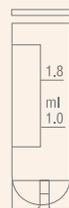
External Thread Cryogenic Vial

- ▶ Color-coded polypropylene cap inserts simplify vial identification. Available in variety packs of white, blue, green, red, and yellow.
- ▶ Silicone washer provides a secure seal.
- ▶ Easy-to-read black graduations for partial volumes
- ▶ Self-standing base, self-locking skirt



Internal Thread Cryogenic Vial

- ▶ Color-coded polypropylene cap inserts simplify vial identification. Available in variety packs of white, blue, green, red, and yellow.
- ▶ Silicone washers or rubber O-rings provide a secure seal.
- ▶ Easy-to-read black graduations for partial volumes
- ▶ Self-standing base, self-locking skirt



WARNING: Do not use cryogenic vials or cryogenic vial storage boxes in the liquid phase of liquid nitrogen. Only store in the vapor phase above the liquified gas. Always use appropriate safety equipment when removing vials from cryogenic storage.

A New Standard in Cell Cryopreservation



Corning CoolCell Containers

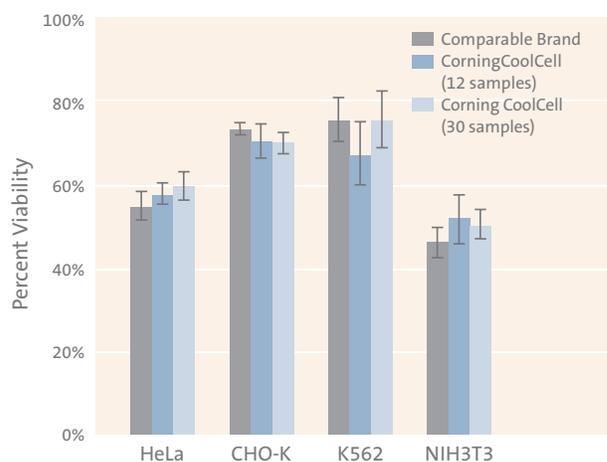
Corning® CoolCell® is a reusable, alcohol-free system to uniformly freeze your cells at a lower cost of use. It controls the rate of freezing to $-1^{\circ}\text{C}/\text{minute}$ when placed in a -80°C freezer and has been performance tested with a variety of cell types including stem cells, primary cells, PBMC cell lines, insect cells, and yeast.

Go alcohol-free and eliminate ongoing costs

Many labs use isopropanol (IPA) containers for cryogenic freezing, but they require costly alcohol replacements every 5 uses, can be cumbersome to handle, and may have inconsistent freezing rates.

High reproducibility and cell viability

With Corning CoolCell, experience high reproducibility and cell viability without the inconvenience of IPA.



Corning CoolCell 12-well, CoolCell FTS30 30-well, or comparable brand freezing containers were used to freeze all four cell lines. Identical transfection efficiencies and viabilities were observed after thawing.



Corning vial grippers



DMSO

Combine all of Corning's cryogenic solutions, including Corning CoolCell, cryogenic vials, grippers, and DMSO to further protect your valuable cell lines, biological, and aqueous solutions in ultra-low temperature storage. Visit www.corning.com/lifesciences or contact your Corning Representative to learn more.

Ordering Information

Corning® CoolCell® Containers



Cat. No.	Description	External Dimension (Diameter x Height)	Well Diameter
432000	CoolCell, purple	11.7 x 10.9 cm	12.7 mm
432001	CoolCell LX, purple	11.7 x 9.9 cm	12.7 mm
432002	CoolCell LX, green	11.7 x 9.9 cm	12.7 mm
432003	CoolCell LX, orange	11.7 x 9.9 cm	12.7 mm
432004	CoolCell LX, pink	11.7 x 9.9 cm	12.7 mm
432138	CoolCell LX 4-pack (all 4 colors)	11.7 x 9.9 cm	12.7 mm
432006	CoolCell FTS30, purple	16.5 x 11.5 cm	12.3 mm
432008	CoolCell FTS30, green	16.5 x 11.5 cm	12.3 mm
432007	CoolCell FTS30, orange	16.5 x 11.5 cm	12.3 mm
432009	CoolCell FTS30, pink	16.5 x 11.5 cm	12.3 mm
432005	CoolCell 5 mL LX, purple	9.5 x 14.5 cm	15.2 mm
432010	CoolCell SV2, purple	13.9 x 10.5 cm	14.7 mm
432011	CoolCell SV10, purple	12.1 x 9.8 cm	23.6 mm



To ensure cell freezing rate consistency and uniform results when using Corning CoolCell containers, insert a CoolCell Filler Vial into the empty wells when freezing less than a full load. It is suitable for repeated use and compatible with CoolCell LX, CoolCell FTS30, and CoolCell 5 mL LX containers.

Cat. No.	Description	For Use With	Qty/Pk	Qty/Cs
432076	CoolCell filler vial, 2 mL	CoolCell LX, CoolCell FTS30	1	6
432077	CoolCell filler vial, 5 mL	CoolCell 5 mL LX	1	6
432078	Removable cryogenic vial module for CoolCell FTS30	CoolCell FTS30	5	10

Corning Cryogenic Vial Grippers



Cryogenic vial grippers feature a unique design to grasp internal or external-thread cryogenic vials. Grippers enable easy sorting and moving of vials while maintaining sterility and protecting fingers from frozen vials, dry ice, and liquid nitrogen.

Cat. No.	Description	Qty/Pk	Qty/Cs
432136	Cryogenic vial grippers, multi-color	1	5

Ordering Information

Corning Cryogenic Vials and Accessories

- ▶ Manufactured from Polypropylene to withstand temperatures to -196°C
- ▶ 40% larger marking spot
- ▶ Black graduations
- ▶ Vials have a silicone washer for a secure seal
- ▶ Vials may be color coded with inserts (Cat. No. 430499)
- ▶ Self-standing vials have a special base design allowing them to be locked into the cryogenic rack (Cat. No. 431131) for single-handed manipulation
- ▶ RNase-/DNase-free
- ▶ Nonpyrogenic
- ▶ Sterile

External Thread Cryogenic Vials



Cat. No.	Capacity (mL)	Cap Color	Style	Self-standing	Qty/Pk	Qty/Cs
8671	2.0	Orange	1D and 2D bar coded, round bottom	Yes	50	500
8676	2.0	Orange	1D bar coded, round bottom	Yes	50	500
430658	1.2	Orange	Conical bottom	Yes	50	500
430659	2.0	Orange	Round bottom	Yes	50	500
430661	2.0	Orange	Round bottom	No	50	500
430662	4.0	Orange	Round bottom	Yes	50	500
430663	5.0	Orange	Round bottom	Yes	50	500
430674	5.0	Orange, uncapped	Round bottom, unprinted	Yes	125	500

WARNING: Do not use cryogenic vials or cryogenic vial storage boxes in the liquid phase of liquid nitrogen. Only store in the vapor phase above the liquified gas. Always use appropriate safety equipment when removing vials from cryogenic storage.

Internal Thread Cryogenic Vials



Cat. No.	Capacity (mL)	Cap Color	Style	Self-standing	Qty/Pk	Qty/Cs
8670	2.0	Orange	1D and 2D bar coded, round bottom	Yes	50	500
8672	2.0	Orange	1D bar coded, round bottom	Yes	50	500
430487	1.2	Orange	Conical bottom	Yes	50	500
430488	2.0	Orange	Round bottom	Yes	50	500
430489	2.0	Orange	Round bottom	No	50	500
430490	4.0	Orange	Round bottom	No	50	500
430491	4.0	Orange	Round bottom	Yes	50	500
430655*	5.0	Orange	Round bottom, triple bagged	Yes	40	400
430656	5.0	Orange	Round bottom	Yes	50	500
431386	2.0	Orange	Round bottom	Yes	50	250
431416	2.0	Assorted	Round bottom	Yes	50	500
431417	2.0	Yellow	Round bottom	Yes	50	500
431418	2.0	Blue	Round bottom	Yes	50	500
431419	2.0	Green	Round bottom	Yes	50	500
431420	2.0	Red	Round bottom	Yes	50	500
431421	2.0	White	Round bottom	Yes	50	500

*Made to order. Please contact your local Account Representative for more information.



Cap Inserts for Cryogenic Vials

- ▶ Manufactured from Polypropylene
- ▶ Caps inserts provide color-coding for easy sample identification
- ▶ Inserts are packaged in resealable bags
- ▶ Cap inserts fit all Corning cryogenic vials
- ▶ Nonsterile



Cat. No.	Description	Qty/Pk	Qty/Cs
430499	Cap inserts, assorted colors (100 each of white, blue, red, green, and yellow)	50	500
2015	Cap inserts, white	50	500
2016	Cap inserts, blue	50	500
2017	Cap inserts, red	50	500
2018	Cap inserts, green	50	500
2019	Cap inserts, yellow	50	500

Cryogenic Vial Caps

Cat. No.	Description	Qty/Pk	Qty/Cs
431337	Cap, clear, external thread, PP, nonsterile, RNase-/DNase-free	50	500
431324*	Cap, clear, external thread, PP, sterile, bulk	50	500
431338	Cap, clear, internal thread, PP, nonsterile, RNase-/DNase-free	50	500
431347*	Cap, clear, internal thread, with washer, PP, sterile, bulk	50	500

*Made to order. Please contact your local Account Representative for more information.

Cryogenic Vial Racks and Storage Boxes

Reusable racks are designed for use with most cryogenic vials.



Cat. No.	Description	Qty/Pk	Qty/Cs
431131	Reusable orange polypropylene vial rack, holds 50 vials, self-locking design	2	2
431119	81 count (9 x 9 array) cryogenic box, for 1 to 2 mL vials	5	10
431120	81 count (9 x 9 array) cryogenic box, for 4 to 5 mL vials	5	10
431121**	100 count (10 x 10 array) cryogenic box, for 1 to 2 mL vials	5	10
8673	Cryogenic storage box, polycarbonate, holds 81 vials, designed to fit Corning 2D bar coded cryogenic vials	5	10
8674	Cryogenic storage box, polycarbonate, holds 100 vials, designed to fit Corning 2D bar coded cryogenic vials	5	10

**431121 accepts internally threaded cryogenic vials only.

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How to Purchase: For specific availability in your region and purchasing options, terms and conditions of sale, customer/product support, and certificates, visit www.corning.com/how-to-buy.

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