

Corning[®] Cryogenic Vials

A New and Improved Way to Manage Your Samples



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

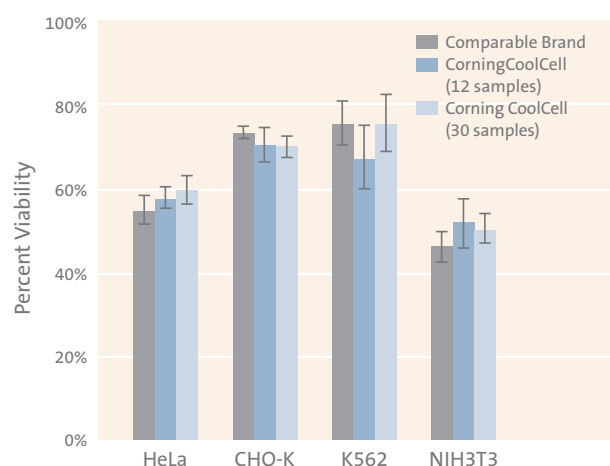
Corning® CoolCell® is a reusable, alcohol-free system to uniformly freeze your cells at a lower cost of use. It controls the rate of freezing to $-1^{\circ}\text{C}/\text{minute}$ when placed in a -80°C freezer and has been performance tested with a variety of cell types including stem cells, primary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

Ordering Information

Corning® CoolCell® Containers



VWR Cat. No.	Corning Cat. No.	Description	External Dimension (Diameter x Height)	Well Diameter
75779-712	432000	CoolCell, purple	11.7 x 10.9 cm	12.7 mm
75779-714	432001	CoolCell LX, purple	11.7 x 9.9 cm	12.7 mm
75779-716	432002	CoolCell LX, green	11.7 x 9.9 cm	12.7 mm
75779-718	432003	CoolCell LX, orange	11.7 x 9.9 cm	12.7 mm
75779-720	432004	CoolCell LX, pink	11.7 x 9.9 cm	12.7 mm
76180-494	432138	CoolCell LX 4-pack (all 4 colors)	11.7 x 9.9 cm	12.7 mm
75779-724	432006	CoolCell FTS30, purple	16.5 x 11.5 cm	12.3 mm
75779-816	432008	CoolCell FTS30, green	16.5 x 11.5 cm	12.3 mm
75779-814	432007	CoolCell FTS30, orange	16.5 x 11.5 cm	12.3 mm
75779-818	432009	CoolCell FTS30, pink	16.5 x 11.5 cm	12.3 mm
75779-722	432005	CoolCell 5 mL LX, purple	9.5 x 14.5 cm	15.2 mm
75779-820	432010	CoolCell SV2, purple	13.9 x 10.5 cm	14.7 mm
75779-822	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.

VWR Cat. No.	Corning Cat. No.	Description	For Use With	Qty/Pk	Qty/Cs
75779-778	432076	CoolCell filler vial, 2 mL	CoolCell LX, CoolCell FTS30	1	6
75779-780	432077	CoolCell filler vial, 5 mL	CoolCell 5 mL LX	1	6
75779-782	432078	Removable cryogenic vial module	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.

VWR Cat. No.	Corning Cat. No.	Description	Qty/Pk	Qty/Cs
75779-848	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. **66021-964**)
- ▶ Self-standing vials have a special base design allowing them to be locked into the cryogenic rack (Cat. No. **22250-112**) for single-handed manipulation
- ▶ RNase-/DNase-free
- ▶ Nonpyrogenic
- ▶ Sterile

External Thread Cryogenic Vials



VWR Cat. No.	Corning Cat. No.	Capacity (mL)	Cap Color	Style	Self-standing	Qty/Pk	Qty/Cs
75784-540	8671	2.0	Orange	1D and 2D bar coded, round bottom	Yes	50	500
75784-548	8676	2.0	Orange	1D bar coded, round bottom	Yes	50	500
66021-972	430658	1.2	Orange	Conical bottom	Yes	50	500
66021-974	430659	2.0	Orange	Round bottom	Yes	50	500
66021-976	430661	2.0	Orange	Round bottom	No	50	500
66021-978	430662	4.0	Orange	Round bottom	Yes	50	500
66021-980	430663	5.0	Orange	Round bottom	Yes	50	500
76615-066	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



VWR Cat. No.	Corning Cat. No.	Capacity (mL)	Cap Color	Style	Self-standing	Qty/Pk	Qty/Cs
75784-538	8670	2.0	Orange	1D and 2D bar coded, round bottom	Yes	50	500
75784-542	8672	2.0	Orange	1D bar coded, round bottom	Yes	50	500
66021-940	430487	1.2	Orange	Conical bottom	Yes	50	500
66021-942	430488	2.0	Orange	Round bottom	Yes	50	500
66021-944	430489	2.0	Orange	Round bottom	No	50	500
66021-946	430490	4.0	Orange	Round bottom	No	50	500
66021-948	430491	4.0	Orange	Round bottom	Yes	50	500
78644-162*	430655*	5.0	Orange	Round bottom, triple bagged	Yes	40	400
66021-970	430656	5.0	Orange	Round bottom	Yes	50	500
89089-764	431386	2.0	Orange	Round bottom	Yes	50	250
30617-556	431416	2.0	Assorted	Round bottom	Yes	50	500
30617-558	431417	2.0	Yellow	Round bottom	Yes	50	500
30617-560	431418	2.0	Blue	Round bottom	Yes	50	500
30617-562	431419	2.0	Green	Round bottom	Yes	50	500
30617-564	431420	2.0	Red	Round bottom	Yes	50	500
30617-566	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



VWR Cat. No.	Corning Cat. No.	Description	Qty/Pk	Qty/Cs
66021-964	430499	Cap inserts, assorted colors (100 each of white, blue, red, green, and yellow)	50	500
29442-544	2015	Cap inserts, white	50	500
29442-546	2016	Cap inserts, blue	50	500
29442-548	2017	Cap inserts, red	50	500
29442-550	2018	Cap inserts, green	50	500
29442-552	2019	Cap inserts, yellow	50	500

Cryogenic Vial Caps

VWR Cat. No.	Corning Cat. No.	Description	Qty/Pk	Qty/Cs
78069-646	431337	Cap, clear, external thread, PP, nonsterile, RNase-/DNase-free	50	500
78069-648	431338	Cap, clear, internal thread, PP, nonsterile, RNase-/DNase-free	50	500
78069-650*	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.



VWR Cat. No.	Corning Cat. No.	Description	Qty/Pk	Qty/Cs
22250-112	431131	Reusable orange polypropylene vial rack, holds 50 vials, self-locking design	2	2
22250-106	431119	81 count (9 x 9 array) cryogenic box, for 1 to 2 mL vials	5	10
89091-032	431120	81 count (9 x 9 array) cryogenic box, for 4 to 5 mL vials	5	10
89091-028**	431121**	100 count (10 x 10 array) cryogenic box, for 1 to 2 mL vials	5	10
75784-544	8673	Cryogenic storage box, polycarbonate, holds 81 vials, designed to fit Corning 2D bar coded cryogenic vials	5	10
75784-546	8674	Cryogenic storage box, polycarbonate, holds 100 vials, designed to fit Corning 2D bar coded cryogenic vials	5	10

**89091-028 accepts internally threaded cryogenic vials only.

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CORNING

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