

CORNING

Corning® Cryogenic Storage Solutions

A new and improved way to freeze your cells



A New Standard in Cell Cryopreservation

At Corning, we continuously look for ways to help our customers improve or streamline steps in the cell culture workflow. One such area is cell cryopreservation. While current methods exist, they require chemicals and maintenance.

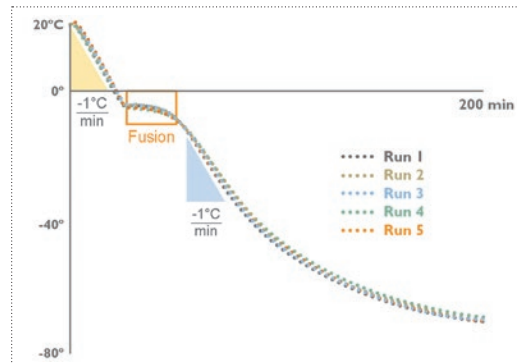
Now there is a new and improved way to freeze cells for cryogenic storage – we call it Corning® CoolCell®.

Corning CoolCell is an alcohol-free cell freezing container, which controls the rate of freezing to $-1^{\circ}\text{C}/\text{minute}$ when placed in a -80°C freezer. CoolCell has been performance tested with a variety of cell types including stem cells, primary cells, PBMC cell lines, insect cells, and yeast. The CoolCell technology utilizes a thermo-conductive alloy core and highly insulative outer material to control the rate of heat removal and provide reproducible cell cryopreservation. CoolCell units are easy to use and deliver comparable results.

Alcohol-free with No Ongoing Costs or Maintenance

Isopropanol (IPA) containers used for cryogenic freezing require costly alcohol replacements every 5 uses, can be cumbersome to handle, and may have inconsistent freezing rates. Corning CoolCell is different, because it's a reusable, alcohol-free way to uniformly freeze your cells at a lower cost of use. With CoolCell, you can depend on high reproducibility and high cell viability, to ensure you preserve the most cells possible for your research.

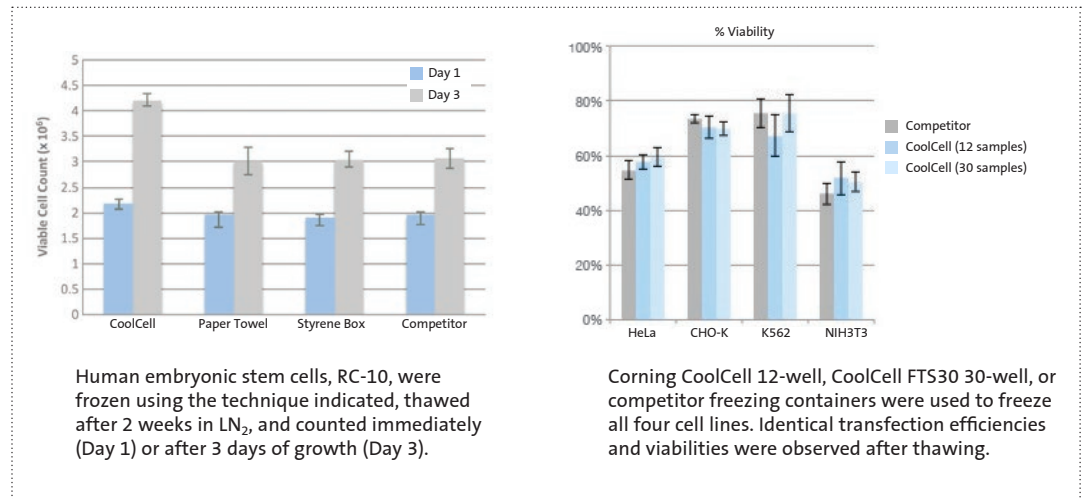
Corning CoolCell Reproducibility



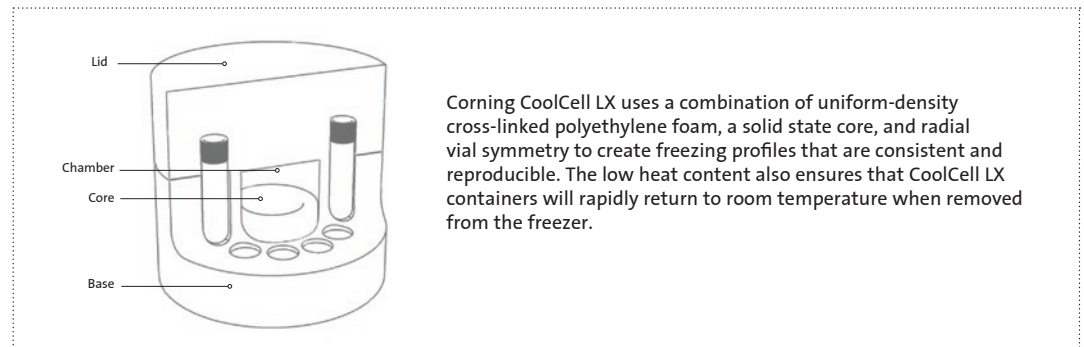
Performance test: A temperature probe was placed into a 2.0 mL cryogenic vial containing 1.0 mL of water and the tube was inserted into a room temperature Corning CoolCell. The CoolCell was placed into a -80°C freezer and the temperature rate and profile was recorded over a 3-hour period. The test was repeated 5 consecutive times.

Conclusion: Corning CoolCell generated identical fusion time and cooling profiles over five consecutive freeze cycles.

Corning CoolCell Performance Versus IPA Container



How Corning CoolCell LX Works





Corning 2D bar coded cryogenic vial, 2 mL, self-standing (Cat. Nos. 07-200-960, 07-200-961)



DMSO media (Cat. No. MT25950CQC)



Cryopreservation bags

Corning® CoolCell® Features

Unique features of controlled-rate freezing with Corning CoolCell include:

- ▶ Ease of use
- ▶ Alcohol and fluid-free freezing
- ▶ Lower cost of use than alcohol-based devices
- ▶ High cell recovery and cell viability
- ▶ Reproducibility
- ▶ Simple, consistent way to standardize controlled-rate freezing

Keep Your Samples Safe

Use Corning cryogenic vials and DMSO media with Corning CoolCell to further protect your valuable cell lines, biological, and aqueous solutions in ultra-low temperature storage. Choose from external or internal cryogenic vial thread caps or assorted color cap options to suit your needs. For added convenience, Corning also offers reusable cryogenic racks.

New Improve Your Sample Management

Manage and manipulate multiple storage tubes more efficiently with Corning 1D/2D 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. Corning 1D/2D bar coded cryogenic vials are temperature-resistant polypropylene vials that can withstand temperatures down to -196°C and are compatible with most scanning and capper/decapper systems.

Further Protect Your Valuable Cells with a Complete Cryopreservation Solution

Combine **Corning CoolCell** with **Corning cryogenic vials, grippers, and DMSO** to further protect your valuable cell lines, biological, and aqueous solutions in ultra-low temperature storage.

Also Available for Cell Freezing

Corning Cryopreservation Bags

Corning also offers cryogenic storage containers designed for the storage, preservation, and transfer of cells. Features include: a unique bag film material that remains flexible at low temperatures and proprietary port designs that allow for increased flexibility. Learn more at fishersci.com/corningcellculturesolutions.



Ordering Information

Corning® CoolCell® Containers

Fisher Scientific Cat. No.	Corning Cat. No.	Description	Capacity (Vials)	Exposed Vial Tops	Qty/Pk	Qty/Cs
07-210-000	432000	CoolCell, purple	12	No	1	1
07-210-001	432001	CoolCell LX, purple	12	Yes	1	1
07-210-002	432002	CoolCell LX, green	12	Yes	1	1
07-210-003	432003	CoolCell LX, orange	12	Yes	1	1
07-210-004	432004	CoolCell LX, pink	12	Yes	1	1
07-202-363	432138	CoolCell LX, 4 colors (purple, green, orange, pink)	12	Yes	1	4
07-210-005	432005	CoolCell 5 mL LX, purple	12	Yes	1	1
07-210-006	432006	CoolCell FTS30, purple	30	Yes	1	1
07-210-007	432007	CoolCell FTS30, orange	30	Yes	1	1
07-210-008	432008	CoolCell FTS30, green	30	Yes	1	1
07-210-009	432009	CoolCell FTS30, pink	30	Yes	1	1
07-210-010	432010	CoolCell SV2	12	Yes	1	1
07-210-011	432011	CoolCell SV10	6	Yes	1	1

Corning CoolCell Accessories

Fisher Scientific Cat. No.	Corning Cat. No.	Description	Capacity (Vials)	Exposed Vial Tops	Qty/Pk	Qty/Cs
07-210-076	432076	CoolCell filler vials, 2 mL	–	–	6	6
07-210-077	432077	CoolCell filler vials, 5 mL	–	–	6	6
07-210-078	432078	CoolCell FTS30 vial module	30	–	10	10
07-210-136	432136	Cryogenic vial grippers, multi-colored	–	–	5	5

Corning Cryogenic Vials and Accessories

External Thread Cryogenic Vials

Fisher Scientific Cat. No.	Corning Cat. No.	Capacity (mL)	Style	Self-standing	Qty/Pk	Qty/Cs
07-200-961	8671	2.0	1D and 2D bar coded, round bottom	Yes	50	500
07-200-963	8676	2.0	1D bar coded, round bottom	Yes	50	500
09-761-70	430658	1.2	Conical bottom	Yes	50	500
09-761-71	430659	2.0	Round bottom	Yes	50	500
09-761-72	430661	2.0	Round bottom	No	50	500
09-761-73	430662	4.0	Round bottom	Yes	50	500
09-761-74	430663	5.0	Round bottom	Yes	50	500

Internal Thread Orange Cap Cryogenic Vials

Fisher Scientific Cat. No.	Corning Cat. No.	Capacity (mL)	Style	Self-standing	Qty/Pk	Qty/Cs
07-200-960	8670	2.0	1D and 2D bar coded, round bottom	Yes	50	500
07-200-962	8672	2.0	1D bar coded, round bottom	Yes	50	500
03-374-20	430487	1.2	Conical bottom	Yes	50	500
03-374-21	430488	2.0	Round bottom	Yes	50	500
03-374-22	430489	2.0	Round bottom	No	50	500
03-374-23	430490	4.0	Round bottom	No	50	500
03-374-24	430491	4.0	Round bottom	Yes	50	500
09-761-69	430656	5.0	Round bottom	Yes	50	500

Warning! Do not use cryogenic vials for storage in the liquid phase of liquid nitrogen. Only store vials in the vapor phase above the liquified gas. Always use appropriate safety equipment when removing vials from cryogenic storage.

Cryogenic Storage Boxes

Fisher Scientific Cat. No.	Corning Cat. No.	Description	Qty/Pk	Qty/Cs
07-200-964	8673	Cryogenic storage box, polycarbonate, holds 81 vials, designed to fit Corning 2D bar coded cryogenic vials	5	10
07-200-965	8674	Cryogenic storage box, polycarbonate, holds 100 vials, designed to fit Corning 2D bar coded cryogenic vials	5	10

Cryopreservation Bags

Fisher Scientific Cat. No.	Corning Cat. No.	Size (mL)	Fill Volume (mL)	Qty/Cs
MT9120088	91-200-88	50	10 - 20	1
MT9120089	91-200-89	250	30 - 70	1
MT9120090	91-200-90	500	55 - 100	1
MT9120091	91-200-91	750	80 - 190	1

For more specific information on claims, visit the Certificates page at www.corning.com/lifesciences.

Warranty/Disclaimer: Unless otherwise specified, all products are for research use only. Not intended for use in diagnostic or therapeutic procedures. Corning Life Sciences makes no claims regarding the performance of these products for clinical or diagnostic applications.

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For additional product or technical information, visit fishersci.com/corningcellculturesolutions, call 1.800.766.7000, or contact your Fisher Scientific representative.

In the United States:

For customer service, call 1-800-766-7000
To fax an order, use 1-800-926-1166
To order online: fishersci.com

In Canada:

For customer service, call 1-800-234-7437
To fax an order, use 1-800-463-2996
To order online: fishersci.ca

