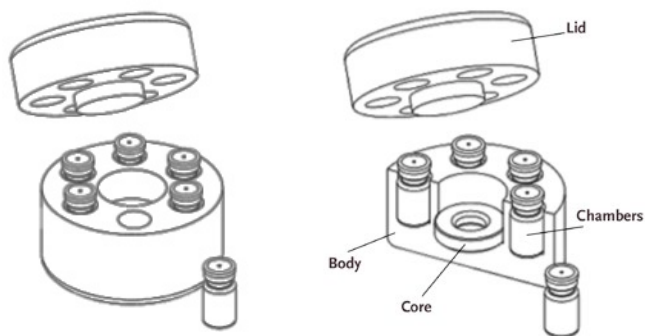


Corning® CoolCell® SV10 Freezing Container

Instructions for Use



Quick Start

- ▶ The six chambers and 10 mL injectable vials should be dry to avoid vial sticking upon freezing.
- ▶ Make sure the Core (black ring) is at room temperature and seated in the bottom of the central cavity.
- ▶ Place the sample vials, each containing 5 mL of cell suspension, in each well. For reproducible freezing profiles, each well should contain a filled vial; “blank” vials containing 5 mL of freezing medium should be placed in empty chambers if freezing less than six vials of cell suspension.
- ▶ Check that the tubes slide in and out freely.
- ▶ Fully seat the lid on the CoolCell SV10 container.
- ▶ Place the CoolCell SV10 container into a -80°C freezer or dry ice locker. Ensure there is at least one inch of free space clearance around the CoolCell SV10 container.
- ▶ Freeze for a minimum of 4 hours before transferring samples to archive storage.

Transferring Frozen Samples to Archive Storage

- ▶ Prepare an insulated pan or container with a one inch (2.5 cm) layer of pulverized or pellet dry ice.
- ▶ Remove the CoolCell SV10 container from the freezer and gently remove the lid using a twisting and rocking motion.
- ▶ Vial tops will be exposed once the lid is removed and vials should be quickly extracted and placed onto the dry ice.

Special Notes

- ▶ Always use dry ice to transfer frozen vials containing cells to permanent storage to avoid temperature rise and cell damage. Vial contents can rise from -80°C to over -50°C in less than 1 minute if exposed to room temperature air.
- ▶ It is strongly recommended that all frozen cell cultures be checked for viability before the stock culture is terminated.

Recycling the CoolCell SV10 Freezing Container to Room Temperature

The CoolCell SV10 container is ready to freeze again as soon as the Core (black ring) is at room temperature. To rapidly recycle the CoolCell SV10 container to room temperature, remove the center solid Core ring by inverting and tapping on a surface. The CoolCell SV10 body and lid will return to room temperature in 10 to 15 minutes. Check that all chambers are dry. Dry the Core ring before re-inserting into the central chamber.

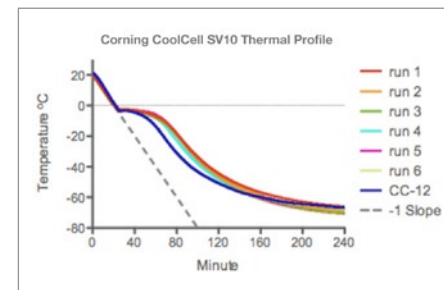
About the Corning® CoolCell® SV10 Freezing Container

The Corning CoolCell SV10 freezing container, in combination with a -80°C freezer or dry ice locker, will provide the freezing rate of -1°C per minute that is ideal for cryopreservation of most cultured cell lines. The CoolCell SV10 design uses a combination of insulation foam, radial symmetry, and a heat transfer Core to regulate heat loss rather than using a large thermal mass (alcohol-based freezing container). As a result, freezing profiles are extremely consistent from one run to the next. Also, because of this low thermal mass, the CoolCell SV10 container will not cause a rise in local freezer temperature and will protect nearby samples already stored in the freezer. Low thermal mass also means the CoolCell SV10 container will rapidly return to room temperature for another freezing cycle (see recycle instructions).

Corning CoolCell SV10 Freezing Container Performance

The Corning CoolCell SV10 container will freeze six serum vials, each containing 5 mL of cell suspension, at -1°C per minute when placed in a -80°C environment (mechanical freezer or dry ice locker). The graph (right) displays a typical freezing profile obtained using these conditions.

Note: “CC-12” refers to CoolCell 12-well cryogenic freezing containers (Corning Cat. No. 432000).



Troubleshooting

Problem	Solution
Vials do not freely fit in the chambers.	The CoolCell SV10 container is designed to fit standard serum vial shaped vessels up to 23 mm in diameter and up to 47 mm in height. Check that the flag style labels, if used, will not bind and hinder insertion or removal.
Vials are stuck in the CoolCell SV10 after freezing.	It is likely moisture was in the vial chambers or on the sample vial prior to freezing. Remove the Core (black ring) and tap the CoolCell SV10 to dislodge the vials.
The lid does not fully seat.	Ensure the sample vials are properly seated in the chamber. The maximum height of the tube is 47 mm.

Ordering Information

Cat. No.	Description
432011	Corning CoolCell SV10 freezing container, purple

Care and Cleaning

The CoolCell SV10 container is constructed of closed cell, cross-linked polyethylene foam and a solid thermo-conductive core. The CoolCell SV10 container is compatible with prolonged cryogenic temperature exposure. The foam may be cleaned with water and mild soap. Rinse and dry thoroughly. The CoolCell SV10 container is resistant to alcohols and 10% bleach solutions. Do not autoclave. Maximum temperature exposure is 60°C. Avoid prolonged exposure to ultraviolet (UV) light sources.

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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