# Corning® Cryopreservation Bag

## Instructions for Use

CORNING

Corning® cryopreservation bags are for the storage, preservation, and transfer of cells in liquid nitrogen to -196°C. The cryopreservation bag is provided sterile and intended for single use.

The freeze volume recommended is based on horizontal freezing in a protective cassette with an internal thickness of approximately 8 mm. If the container is frozen vertically or a cassette with a different thickness, the user must determine the optimum fill volume.

### Warnings and Precautions

- Do not use metal clip to seal tubing
- Do not centrifuge
- Do not write on the bag
- Do not adhere labels to bag surface
- Not recommended for multiple freeze/thaw cycles
- DMSO should be diluted prior to transfer into the bag.
  Not recommended for use with greater than 10% DMSO.
- Do not overfill. See recommended fill volumes table below.

| Cat. No. | Volume Fill | Volume Range |
|---|---|---|
| 91-200-88 | 50 mL | 10-20 mL |
| 91-200-89 | 250 mL | 30-70 mL |
| 91-200-90 | 500 mL | 55-100 mL |
| 91-200-91 | 750 mL | 80-190 mL |

### Freezing Precautions

- Use of a protective storage cassette* is strongly recommended during frozen storage.
- Ensure bag exterior and protective freezing cassettes are dry prior to initiating freezing protocol. Moisture on the exterior of the bag or on the cassette could cause adherence of the bag to the cassette resulting in difficulty of bag removal.
- When using controlled rate freezing, maintain a consistent freezing profile.
- After freezing, do not handle excessively. Port tubes and film are fragile in the frozen state and breakage may occur.

* Aluminum protective storage cassettes (Custom BioGenic Systems (CBS), Cat. Nos. ZC060, ZC021, ZC022, ZC025) are designed to fit Corning cryopreservation bags, 50 to 750 mL volume fill.

### Thawing Recommendations

- Use of an overwrap is strongly recommended during thawing.
- Harvest cells as soon as possible after thawing. DMSO can be toxic at room temperature.

## Instructions

**Use aseptic technique**

1. Remove bag from protective pouch. Assure all adapter covers are secure. Do not use if adapter covers are not in place.
2. Close all clamps on transfer set, if needed.
3. Remove protective caps from distal end of transfer set, as needed, and attach to transfer tubing.
4. Do not over tighten luers. Hand tighten only.
5. Initiate aseptic transfer by opening pinch clamp of appropriate tubing segment.
6. Remove as much air as possible from the container.
7. It is recommended to seal tubing between the bag shoulder and Y-connector using an RF sealer, dielectric sealer, or equivalent prior to freezing. Bag should be flat and supported during sealing.
8. Examine seal to assure weld process is complete. If weld is incomplete, another seal may be initiated to a lower segment of the tubing closer to the bag shoulder.
9. Remove and discard the transfer set by cutting the tubing above the seal.
10. Insert label in label pocket, apply multiple spot seals to pocket using dielectric sealer, or equivalent. Do not seal entire open edge of label pocket.
11. Place bag in freezing cassette and follow freezing protocol.

## Instructions (Thawing)

1. Remove product from liquid nitrogen storage tank.
2. Remove product from freezing cassette. If bag is affixed to cassette, warm the bag by exposing to ambient temperatures for 1 minute. Repeat this step if the bag remains affixed to the cassette.
3. Place frozen product in a suitable overwrap bag to ensure waterbath is not in direct contact with freezing bag.
4. Thaw in water bath with gentle agitation at 37 to 40°C.
5. The product is completely thawed when the last ice crystal is melted.

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


www.corning.com/lifesciences/solutions

At Corning, cells are in our culture. In our continuous efforts to improve efficiencies and develop new tools and technologies for life science researchers, we have scientists working in Corning R&D labs across the globe, doing what you do every day. From seeding starter cultures to expanding cells for assays, our technical experts understand your challenges and your increased need for more reliable cells and cellular material.

It is this expertise, plus a 160-year history of Corning innovation and manufacturing excellence, that puts us in a unique position to offer a beginning-to-end portfolio of high-quality, reliable cell culture consumables.

For additional product or technical information, please visit www.corning.com/lifesciences/media or call 1.800.235.5476.

**Mediatech, Inc.**
*A Corning Subsidiary*
9345 Discovery Boulevard
Manassas, VA 20109
t 800.235.5476
t 703.471.5955
f 703.467.9851
**www.corning.com/lifesciences/media**

CORNING | FALCON® AXYGEN® GOSSELIN™ PYREX®