

# Serum-Free Cryopreservation Medium™

**Description:** Serum-Free Cryopreservation Medium™ contains conditioned Medium and DMSO, and is ready to thaw and use as delivered.

Use of the Passage Reagent Group™ (catalog# CSC005) to release cells from culture for freezing is critically important to minimizing membrane and cytoskeletal damage. Cell membranes are materially and cumulatively damaged by detachment or when subjected to the stress of freezing and thawing. Use of Passage Reagent Group™ (catalog# CSC005) in conjunction with Cryopreservation Medium and Attachment Factor™ (catalog# CSC001) minimizes cellular stress and damage associated with these processes and result in a much better yield.

Correct use of the Passage Reagent Group™ (catalog# CSC005), Serum-Free Cryopreservation Medium™ and Attachment Factor™ (catalog# CSC001) are absolutely critical for freezing and recovering cells cultured in a Serum-Free Medium system.

**Uses:** Cell culture procedures.

**Limitations:** Do not use past expiration date.  
Do not use if product becomes cloudy.  
Expiration date refers to frozen storage only.

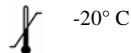
**Availability:** 25ml of (1X) reagent.  
100ml of (1X) reagent.

**Storage:** Store at <-20° Centigrade.

**Procedure:** **For freezing cells.**

1. Follow instructions for Passage Reagent Group™ (catalog# CSC005) immediately prior to using Cryopreservation Medium™.
2. Resuspend cells in ice-cold Serum-Free Cryopreservation Medium™ at the desired final cell concentration: the "sweet spot" is typically between 0.5 – 2.0 X 10<sup>7</sup> cells/ml.
3. Transfer to an ice-cold sterile cryogenic vial. We recommend Nalgene® and Nunc vials®.
4. Reduce temperature from the triple-point at 1° Centigrade per minute until <-70° Centigrade is reached.
5. Store under liquid nitrogen. Temperature fluctuations in nitrogen vapor are bad for cell viability.

Storage:



-20° C



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**Procedure: For thawing cells.**

1. Follow the thawing directions appropriate for your medium system, remembering the importance of correct use of Attachment Factor™ (catalog# CSC001).

**Notes:**

1. ALWAYS avoid bubbles, which present lethal shear stress to your cells. Never vortex for the same reason, squared.
2. Serum-Free Cryopreservation Medium™, Attachment Factor™, and Passage Reagent Group™ are trademark names of Cell Systems Corporation.

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