

CRYOSAVE I

DMEM/F12, 5% DMSO, Human Serum Albumin (USP), Amino Acids, Electrolytes

Catalog number: 136 (100 mL), 137 (500 mL), 184 (10 mL),

185 (50 mL)

Size: 10 mL, 50 mL, 100 mL and 500 mL

Intended Use:

For research purposes only.

Cryosave I is a cryo-preservation medium for freezing cells, ranging from mesenchymal stem cells, hepatocytes, other cell types to tissue sample, at -86°C, and -196°C.

Summary and Explanation:

Cryosave I is a ready-to-use and complete medium with no further additives required. The formula was improved with a reduction of DMSO (10%) and xeno-free. In Cryosave I, the fetal bovine serum is substituted for human serum albumin, minimizing the risk of xeno-immunization and zoonotic transmission.

Cryosave I maintains high cell viability on post-thawing, which is ideal for scientific research and research on technology transfer.

Known Applications:

Cryosave I demonstrates a cryopreservation efficiency, which results in a high survival rate of thawed cells, more than 85%, for mesenchymal stem cells derived from various sources, including adipose, umbilical cord tissue, and bone marrow.

Reagents Provided:

- 10 mL Cryosave I or
- 50 mL Cryosave I or
- 100 mL Cryosave I or
- 500 mL Cryosave I

Reconstitution, Dilution, and Mixing:

Directly resuspend cells in Cryosave I.

Cryosave I is provided at an 1x concentration to be added directly to cells without dilution. Dilution or mixing is not necessary.

Materials and Reagents Required But Not Provided:

Not applicable

Storage and Stability:

Stored at -20 to 4 °C.

Shelf life at 12 months.

Instructions for Use:

Cell Freezing:

- **1.** After harvesting, centrifuge cells at 1.500 rmp for 5 minutes.
- Remove supernatant and resuspend in Washing Buffer for cell washing.
- 3. Re-centrifuge and collect cell pellets.
- **4.** Resuspend cell pellet in cold Cryosave I (2-8 °C) at a cell density of 1-2 .10⁶ cells per mL. Mix thoroughly to achieve a homogeneous cell suspension.
- **5.** Aliquot cell suspension into cryogenic vials. *Cooling:*
- 6.1. Freeze vials at -20°C in 120 minutes; then transfer vials to -80°C or -196°C (liquid nitrogen for long-term storage). or
- 6.2. Put cryogenic vials into cooling box for -1 °C/min (for example, Mr. Frosty), transfer boxes to -86°C overnight; finally transfer the vials to -196°C (liquid nitrogen for long-term storage).

Thawing Cells:

- 1. Remove the cryogenic vials from storage.
- 2. Place vials into a 37°C water bath for 1-2 min.
- 3. Then transfer the vial into a laminar hood.
- 4. Transfer thawed cells into centrifuge tube containing Thawbest or media. Appropriate amount of Thawbest (ratio 1:4 Cryosave : Thawbest) or prewarmed growth media into centrifuge tube (ratio 1:4 Cryosave : fresh cultured medium).
- 5. Centrifuge the cell suspension at 1.500 rmp for 5 minutes.

- 6. Discard the supernatant without disturbing the cell pallete.
- Resuspend cells in Washing Buffer or growth medium according to the experimental design.

Limitations:

Non-injectable and non-transfusable.

Quality Control:

pH: 7.0 - 8.0

• Bacterial and Fungal Contamination: Negative

Mycoplasma: Negative.Endotoxin: < 1.0 EU/mL

• Colour: Yellow-Red

• Cell viability after thawing: ≥ 85%

Precautions:

Rapid or uncontrolled freezing may induce intracellular crystallization, which could affect the viability of thawed cells.

Post thawing, Cryosave I should be discarded, and cells should be washed before proceeding.

Personal protective equipment is required.

Troubleshooting:

Not applicable

Explanation of symbols and warnings

The symbols on produce labels are explained below:

MAA-YYYY	LOT	淤	REF
Use By:	Batch code	Keep away from light	Catalog number
1	\bigcap_i	\triangle	STERILE A
Temperature Limitation	Consult instructions for use	Caution, consult accompanying documents	Sterilized using aseptic processing techniques

Related products

Products	Catalog No.	
Washing Buffer		
100 mL	149	
500 mL	150	
4 L (Bag)	151	
Deattachment		
100 mL	120	
500 mL	121	
200 mL (Bag)	122	
ThawBest		
100 mL	142	
500 mL	143	

To purchase other products, please visit:

http://biomedmart.org

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