

USER MANUAL

Product: THAWBEST

Components: NaCl, KCl, NaC₃H₅O₃, CaCl₂, Proteinase, HSA, C₃H₄O₃

Catalog number: 142 (100mL), 143 (500 mL)

Size: 100 mL bottle and 500 mL bottle.

Intended use:

For research or manufacturing purposes only.

Overview Product:

Using PBS buffer solution to thaw cryopreserved cells reduces cell viability. On the other hand, Thawbest is recommended for thawing cryopreserved cells while preserving high cell viability, thus, it will yield higher profit in cellular manufacturing.

Ready-to-use Thawbest solution does not require any additional chemicals. Thawbest does not contain any animal-derived products. The solution is tested for its sterility. It has no Mycoplasma contamination and has low endotoxin level ($\leq 1\text{EU/ml}$). Its pH range is from 6.5 to 7.5.

Known Applications:

Thawbest is shown to have great result in thawing human mesenchymal stem cells derived from adiposes, umbilical cords, and bone marrow as well as other various types of cells.

Reconstitution, Dilution, and Mixing:

The product is supplied in a 1X concentration, which requires no further dilution or addition of any components prior to use.

Materials and Reagents Required But Not Provided:

Not applicable.

Handling and Storage:

Store at temperatures ranging from -20°C to 8°C.

Recommended shelf life: best before 12 months from manufacturing date.

Instructions for Use:

1. Use a forcep to remove the cryovial containing cells from the freezer or liquid nitrogen storage.
2. Immediately place the cryovial into a 37°C water bath so that the water level only reaches 2/3 of the cryovial. Gently swirling the vial to thaw the cell until there is a small bit of ice in the vial. Quickly transport the cryovial to the Biosafety Cabinet (BSC).
3. Wipe the outside of the cryovial with 70% ethanol before transferring it into the Biosafety Cabinet.
4. Transfer the thawing cells into a sterile 15 mL centrifuge tube using a sterile plastic Pasteur pipette.
5. Pipette Thawbest so that the thawing solution stream steadily on the inside of centrifuge containing thawing cells. (Note: The volume ratio of Thawbest solution to thawing cells is 1:4)
6. Centrifuge the cell suspension at approximately from 1500 RPM to 2500 RPM in 5 minutes.
7. After centrifugation, remove the supernatant aseptically and carefully without disturbing the visible cell pellet.
8. Gently resuspend the cells after adding the culture medium appropriate to the cell line for intended use

Precautions:

Do not use the product if the packaging is damaged, broken, or if the solution appears turbid or discolored.

The product is shipped frozen; therefore, it is necessary to thaw and to stir the solution thoroughly.

Do not cryopreserve and thaw the solution more than 3 times in order to maintain the stability and quality of the product.









It is recommended using the Cryosave for cryopreservation in order to keep the cells in their best conditions when thawing.

First Aid Measures:

Not applicable.

Interpretation of symbols:

The symbols on the product labels are explained below.

			
Use By:	Batch code	Keep away from light	Catalog number
			
Temperature Limitation	Consult instructions for use	Caution, consult accompanying documents	Sterilized using aseptic processing techniques

Cryosave II 100 mL	138
AfterFreeze 100 mL 500 mL	144, 425 145, 397
AfterFreeze OTS 100 mL 500 mL	261 176

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Products Name	Catalog number
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MSCCult II 500 mL	296
ADSCCult I 500 mL	117
ADSCCult II 500 mL	294
MSCCryosave OTS 100 mL 500 mL	182 185
Cryosave I 100 mL	136