

## Cryopreservation Medium

**Product Name** Cryopreservation Medium

**Cat. No.** CS-NP-D1

**Packaging Specification** 100mL/Bottle

**Expected Use** For the cryopreservation of hematopoietic stem cell from umbilical cord blood.

### Identity

<b>Appearance</b>	Colorless transparent liquid
<b>Sterility</b>	Sterile
<b>Endotoxin</b>	< 0.25 EU/mL

### Product description

Based on the principle of ice-controlling technology for cell cryopreservation, this product is a ready-to-use umbilical cord blood hematopoietic stem cell cryopreservation medium with defined chemical composition, serum-free and protein-free.

**Main components** 55% dimethyl sulfoxide (w/v), 5% dextran 40 (w/v)

**Storage conditions and shelf life** 2-8°C, protect from light with a shelf life of 24 months.

**Instructions for use** This product is sterile and can be used directly without dilution.

### Cryopreservation

1. Calculate the required amount of cryopreservation medium in a ratio of 1:4 (cryopreservation medium: concentrated umbilical cord blood), with a final concentration of DMSO of 10% (v/v).
2. According to the calculation results, use a syringe to take the cryopreservation medium and cool it to 2°C.

3. Cool the umbilical cord blood sample to 2 °C, then slowly add the cryopreservation medium to the umbilical cord blood at a constant rate, and mix well while adding. This process should be completed within 15 minutes. Quickly transfer the well-mixed cryopreservation bag into the programmed cooling device and strictly follow the standard freezing procedure (-1°C/min) for cooling.
4. Transfer to liquid nitrogen for long-term cryopreservation.

### Thawing

1. After removing from liquid nitrogen, immediately immerse the cryopreservation bag into a 37-42°C water bath, shake to rapidly thaw the sample within 2 minutes.
2. Centrifuge the cryopreservation bag in a freeze centrifuge, discard the supernatant, and resuspend the cells with appropriate solution. The washing process should be operated at 2-4°C until the cryopreservation medium is completely removed.
3. Proceed for downstream application.

### Note

1. Upon receiving the product, please transfer it to a 2-8°C refrigerator for storage.
2. If the packaging is damaged, please contact our sales team immediately to replace the product.
3. This solution is expected to be handled by personnel who have received training in cell culture procedures.
4. If this product contains precipitate, turbidity or unclearly, do not use and contact sales team immediately.
5. To avoid contamination issues, please open the bottle cap in a sterile environment.
6. If the product comes into contact with the skin during use, it should be rinsed with water immediately. If there is

any discomfort, please seek medical attention promptly.

### Contact

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### Effective date of the instruction manual

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