Cell Storage and Transportation Solution

Product Name Cell Storage and Transportation Solution

Cat. No. CS-CP-N1

Packaging Specification 500mL/Bottle

Expected Use For storage, washing and transportation of NK cells and stem cells in 2-8°C

Identity

Appearance	Colorless or pale yellow transparent liquid
Sterility	Sterile
Endotoxin Level	＜0.25 EU/mL
pH	7.2±0.5

Product description

This product is a ready-to-use cell preservation medium with defined chemical composition, serum-free, DMSO-free and animal component-free.

Main components Multiple electrolytes injection, HSA, etc.

Storage conditions and shelf life 2-8°C, protect from light with a shelf life of 12 months.

Instructions for use

This product is sterile and can be used directly without dilution. All cell culture procedures should be carried out in a sterile environment to prevent contamination.

Transportation and preservation for fresh cells

1. Preheat the storage and transportation solution at 37°C for no less than 10 minutes.
2. Collect cultured cells in a centrifuge tube, centrifuge the cell (400 × g, 5 minutes, RT) and remove the supernatant. Add preheated storage and transportation solution (recommended cell density not exceeding 4 × 10^7 cells/ml) to the cell pellet and resuspend the cells.
3. Cell counting: Take 20-100 µl of cell suspension from step 2, add an appropriate amount of storage and transportation solution and mix throughly. Mix 20 µl of this mixture with 20 µl AOPI staining solution, count with cell counter and record the cell viability and density, then calculate the total number of cells. Determine the total volume of cell storage and transportation solution required for the terminal preparation. The cell density is generally recommended to be 1.0-2.0×10^7 cells/ml.
4. After counting, centrifuge the cell suspension from step 2 (400 × g, 5 minutes, RT), remove the supernatant. Add the volume of cell storage and transportation solution calculated in step 4.

   Optional steps: Repeat cell counting to confirm cell density.
5. Transfer the cell suspension to a cell preservation bag, place it in a low-temperature transfer box, and store it at 2-8 °C (NK cells are recommended not to exceed 48 hours, stem cells are recommended not to exceed 72 hours).

Transportation and preservation for cyropreserved cells

1. Preheat the storage and transportation solution at 37°C for no less than 10 minutes.
2. After removing from -80°C refrigerator or liquid nitrogen, immediately immerse the cryovial into a 37°C water bath, stir to rapidly thaw the cells within 2 minutes.
3. Transfer thawed cells to a conical tube, slowly add 5-10 times volume of preheated storage and transportation solution.

4. Cell counting: Take 20-100 μl of cell suspension from step 3, add an appropriate amount of storage and transportation solution and mix throughly. Mix 20 μl of this mixture with 20 μl AOPI staining solution, count with cell counter and record the cell viability and density, then calculate the total number of cells. Determine the total volume of cell storage and transportation solution required for the terminal preparation. The cell density is generally recommended to be 1.0-2.0×10^7 cells/ml.
5. After counting, centrifuge the cell suspension from step 3 (400 × g, 5 minutes, RT), remove the supernatant. Add the volume of cell storage and transportation solution calculated in step 3.

   Optional steps: Repeat cell counting to confirm cell density.
6. Transfer the cell suspension to a cell preservation bag, place it in a low-temperature transfer box, and store it at 2-8 °C (NK cells are recommended not to exceed 48 hours, stem cells are recommended not to exceed 72 hours).

   Note: When stored or transported at 2-8 °C, if cell sediment is found in the transport bag, it can be gently dispersed by tapping without affecting the product's effectiveness.

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.

Contact

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Effective date of the instruction manual Jun. 19th, 2025

Version: 01