TransStem® Chemically Defined Xeno-free Cell Cryopreservation Medium III--DMSO Free, Protein Free

Please read the manual carefully before use.

Cat. No. MC131

Version No. Version 1.1

Storage: at 2℃-8℃ in the dark for one year.

Description

TransStem® Chemically Defined Xeno-free Cell Cryopreservation Medium III--DMSO Free, Protein Free is a ready-to-use, chemically defined, xeno-free and fully use GMP grade reagents cryopreservation medium without dimethylsulfoxide (DMSO) or protein. The product has completed toxicity tests and can be used as a pharmaceutical excipient for cell drugs. It is commonly used in various cell types, including mesenchymal stem cells, lymphocytes, etc. The product has good stability and can effectively improve the survival rate of various types of cells after cryopreservation. The cryopreserved cells using this product can be stored directly in the refrigerator at -80°C, without the need for time-consuming cooling procedures.

Component	MC131-03
TransStem® Chemically Defined Xeno-free Cell Cryopreservation Medium III--DMSO Free, Protein Free	100 ml

Procedures

1. Cell cryopreservation

(1) Collect the suspended cells or adherent cells in a centrifuge tube according to the routine method, centrifuge at 300×g for 5 minutes, and discard the supernatant.

(2) Add an appropriate amount of cryopreservation solution to make the cell density 5×10^5~1×10^7 cells/ml, and mix slowly to make a cell suspension.

(3) Dispense the cell suspension in the centrifuge tube into the cryogenic vials and put it directly into the -80°C refrigerator for long-term freezing and storage. (If you need to store in liquid nitrogen, transfer to liquid nitrogen after an overnight at -80°C)

2. Cell recovery

(1) Add 5-10 ml of complete medium pre-warmed at 37°C into a 15 ml centrifuge tube.

(2) Take out the cryogenic vial from the -80°C refrigerator or liquid nitrogen , and quickly put it in a 37°C water bath to shake and melt.

(3) Transfer the cell suspension in the cryogenic vial dropwise to the pre-prepared complete medium, mix gently, centrifuge at 300×g for 5 minutes, and discard the supernatant.

(4) Add an appropriate amount of preheated complete medium, pipet gently, transfer to a culture vessel, and put it in an incubator (37°C, 5% CO_2).

Notes

- Please make sure that the cells grow well before cryopreservation, and the survival rate is greater than 90%, such as cells in the logarithmic growth phase.
- We recommend that users perform a pre-experiment on the frozen cells for at least 1 week before using this product, and then perform formal freezing after confirming the performance.

- This product is in sterile packaging and does not need to be filtered. Please be aware of using it under sterile conditions.
- Please ensure that the cell cryogenic vial is completely sealed to avoid bursting of the cryogenic vial during the thawing process.
- Please wear lab gown and wear antifreeze gloves for operation to avoid low temperature frostbite.

For research use only, not for clinical diagnosis.

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