

OMSS Cell Cryoprotectant

OM626423

Description

OMSS cell cryoprotectant is a new type protein-free cell freezing medium that allows cell cryopreservation directly at -80 °C without programmed freezer. It contains antifreeze polymers, which does not contain serum and protein components from animals. It can effectively improve cell recovery, reduce the pollution of various viruses, molds and mycoplasma, ensure the safety of frozen cells, and meet the needs of most mammalian cells in vitro.

Advantages

- Ready-to-use with simple protocol ;
- Protein-Free, chemically defined ;
- Quick freezing, cryopreservation directly at -80°C ;
- High cell viability (> 90%) ;

OMSS protein-free cell cryoprotectant can be used to freeze most mammalian cells including : HEK-293 ,
Hela , A549 , NCI-H460 , MCF-7, HepG2, SK-OV-3, C₂C₁₂ , CHO , COS7 , DU145 , MDCK , NIH-3T3 , HUVEC,
HUSMC, BMSC , PC12 , and RAW264.7.

Cryopreservation

For optimum results, cells should be in mid-log phase of growth with >90% viability at the time of freezing.

1. Resuspend cells in complete medium at a sterile 15-mL centrifuge tube. (For adherent cells, gently detach cells from the substrate)
2. Centrifuge cell suspension at 100–200 × g for 5–10 minutes and aseptically decant supernatant.
3. Resuspend the cell pellet in OMSS cell cryoprotectant at recommended viable cell density. (typically 1 × 10⁶ cells/mL or greater)
4. Dispense aliquots of cell suspension into cryovials according to the manufacturer's specifications (i.e., 1.5 mL in a 2-mL cryovial).
5. Transfer cryovials to -80 °C freezer immediately.

Recovery

1. Remove cells from cryo-storage and rapidly thaw (<1 minute) frozen vial in a 37°C water bath until only a small

amount of ice remains.

2. Transfer cell suspension to a sterile 15-mL conical tube. Add, dropwise, the appropriate pre-warmed complete growth medium to a total volume of 10 mL. Ensure complete mixing with regular gentle swirling.
3. Centrifuge cell suspension at 100–200 × g for 5–10 minutes. Note: Centrifugation speed and duration may vary depending on cell type.
4. Aseptically decant supernatant without disturbing the cell pellet.
5. Gently resuspend cell pellet in an appropriate volume (e.g., 5 mL per 25 cm² surface area) of pre-warmed complete growth medium.
6. Transfer cell suspension to sterile culture vessel and place into the recommended culture environment.

Storage conditions

Store at 2–8 °C up to 12 months ; Store at -20 °C up to 24 months ;

Product use

For Research Use Only. Not for use in diagnostic procedures.

Notes

1. cells should be in mid-log phase of growth with >90% viability at the time of freezing;
2. After the freezing medium was added to the cells, please transfer it into - 80°C refrigerator for cryopreservation as soon as possible;
3. The cryopreserved cells can be stored in - 80°C refrigerator for more than 3 years; If cells need to be frozen for a long time, please transfer them to liquid nitrogen for storage;
4. DMSO component was be contained in the OMSS Cell Cryoprotectant. For your safety and health, please wear experimental clothes and disposable gloves.

Catalog no.	Product	Size
OM626423	OMSS Cell Cryoprotectant	50 mL
OM626423		100mL

Related products

Products	Components	Catalog no.
OMS Cell Cryoprotectant	Serum-Free/5% DMSO	OM626422
OMSS Cell Cryoprotectant	Protein-Free/5% DMSO	OM626423
OMSSS Cell Cryoprotectant	Protein-Free/DMSO-Free	OM626424