

Technical Data Sheet

MOLEQULE-ON®

MQ Serum-Free Cell Freezing Medium

Cat No. CH-M-722

DESCRIPTION

MOLEQULE-ON offers a serum-free medium for long-term storage of cells at -80°C and the preservation of valuable cultures such as tumor cells, stem cells and normal cells.

FEATURES

- Ready-to-use medium for the preservation of cells.
- No dilutions required for use.
- No programmable freezer system required.
- Rapid and long-term freezing and preservation in a deep freezer (-80°C) or liquid nitrogen Serum-free.

OPERATING PROCEDURE

- Centrifuge the cells in logarithmic growth phase (the cells must be frozen in logarithmic growth phase), and collect $5 \times 10^5 \sim 1 \times 10^7$ cells.
- Suspend the collected cells in 1 ml of MQ Serum-Free Cell Freezing Medium, and place the cells in cryo tubes suitable for freezing and preservation. Then, freeze and preserve the cells at -80°C without step-wise freezing. If the cells are frozen at -80°C for at least 12 hours, then subsequently preserve in liquid nitrogen. If there is no -80°C freezer available, you can store the cells in liquid nitrogen if previously frozen at -20°C for at least 12 hours. In some cases, the cells can be frozen directly in liquid nitrogen but please keep in mind that some very sensitive cell lines will show a lower viability.

THAWING PROCEDURE

- Thawing must be carried out quickly in a constant-temperature chamber or water bath (37°C).
- To guarantee the cells are in the best condition for culturing, suspend 1mL MQ Serum-Free Cell Freezing Medium solution (containing cells) in 10mL fresh culture media.
- Mix well and centrifuge at 300-400xg for 3 minutes and remove the supernatant. The cells are now ready for culturing and other downstream experiments.

STERILITY TEST

Endotoxin: Chromogenic substrate method

Mycoplasma: Fluorescent antibody method

Fungi and bacteria: As per Japanese Pharmacopoeia.

APPLICATIONS (Cells preserved well by cryopreservation test):

- P3U1 (mouse myeloma cell line), K562 (human leukemia cell line), human gastric epithelial cells, human $\gamma\delta$ T cells.
- Daudi (human B cell line), PC12 (rat-derived adrenal pheochromocytoma), human B cell line.
- OKT4 (mouse hybridoma), monkey B cell line, activated lymphocyte derived from human peripheral blood, activated lymphocyte derived from mouse spleen.

Technical Data Sheet

MOLEQULE-ON[®]

STORAGE

Store at 2-8°C.

For laboratory use only. Not intended for human therapeutic or diagnostic use.

MOLEQULE-ON