

Xpert Cell Freezing Solution

#GTC23.0020 (20 ml)
(FOR RESEARCH ONLY)



Product:	Xpert Cell Freezing Solution is a ready-to-use serum-free medium, containing 10% DMSO, for long-term storage of cells at either -80°C [or in liquid nitrogen at -196°C, if desired]. It is ideal for the preservation of precious cultures, including normal cells as well as tumor cells and stem cells.
Quantity:	20 ml (ready-to-use).
Applications:	Cryopreservation of cells.
QC:	Absence of endotoxins, mycoplasma, fungi and bacteria was confirmed by appropriate assays.
Storage:	Store at 2°C to 8°C for up to 2 years.

Basic Protocol:

Freezing

- 1) Grow cells to logarithmic phase and collect by centrifugation.
- 2) Resuspend 1×10^6 cells (between 5×10^5 and 1×10^7) in 1 ml of Xpert Cell Freezing Solution. We recommend a density of 1×10^6 cells/ml, whereas more than 1×10^7 cell/ml may lead to decreased cell survival. Hence, in case of harvesting 5×10^5 cells, resuspend in 0.5 ml of Xpert Cell Freezing Solution.
- 3) Place cells in cryovials suitable for freezing and preservation at ultralow temperatures.
- 4) Freeze and store cells at -80°C directly. Do not cool by step-wise freezing
- 5) If desired, preserve in liquid nitrogen but only after having been frozen at -80°C for at least 12 hours. Alternatively, if a -80°C freezer is not available, one can store the cells in liquid nitrogen after having been frozen at -20°C for at least 12 hours.

Thawing

- 1) Thawing should be carried out quickly (e.g., by using a water bath at 37°C).
- 2) In order to get best results, suspend 1 ml of stored cells in Xpert Cell Freezing Solution in 10 ml of fresh culture media by tapping or light vortexing.
- 3) Mix well and harvest cells by centrifugation (e.g., 300-400g for 3 min) and remove supernatant.
- 4) Cells are now ready to be used for further culturing and other downstream applications.

Disclaimer:

Xpert Cell Freezing Solution is meant for research use only (RUO) and not for human diagnostics or treatment. Albeit that the unparalleled chemical composition allows for the storage of innumerable cell lines, including very sensitive cells at -80°C, without causing cell death or cell differentiation, the manufacturer is not responsible for any loss or damage caused by the use of this product. Prior to using Xpert Cell Freezing Solution, it is recommended to perform a confirmation test on a sample of the cells under study.