Stem Cell Cryopreservation Solution

Chemically Defined

Product Description:

A chemically defined, serum-/xeno-/protein-free cell cryopreservation medium, featuring a uniquely optimized formulation for high-value cells including stem cells and induced pluripotent stem cells (iPSCs).

Application：

Specifically formulated for cryopreservation of stem cells and high-value cells such as induced pluripotent stem cells (iPSCs).

Product information:

F109-20: 20ml F109-100: 100ml

Storage Conditions:

2-8°C, light protection recommended.

Shelf Life: 3 years

Features:

- Serum-free, animal-origin free, protein-free, and chemically defined formulation.
- Ready-to-use format requiring no programmed cooling - compatible with direct storage at -80°C or in liquid nitrogen.
- Manufactured under cGMP standards using **USP-grade** imported raw materials with advanced processing technology ensuring batch-to-batch consistency.
- Demonstrated to significantly improve post-thaw viability of stem cells, particularly iPSCs, with consistent recovery rates exceeding 90%.

TIPS

- After cryopreservation, minimize the time cells remain outside storage and promptly transfer them to a -80° C freezer for long-term preservation.
- Before transferring cryopreserved cells to liquid nitrogen, store them at -80°C for at least 24 hours.
- Avoid prolonged exposure of this product to room temperature, as it may reduce cryopreservation efficiency.

Instruction for use

I. Cell Cryopreservation:

1.Harvest cells in logarithmic growth phase. Wash once with 1X PBS or appropriate cell wash buffer.

2.Centrifuge to remove supernatant and perform cell counting.

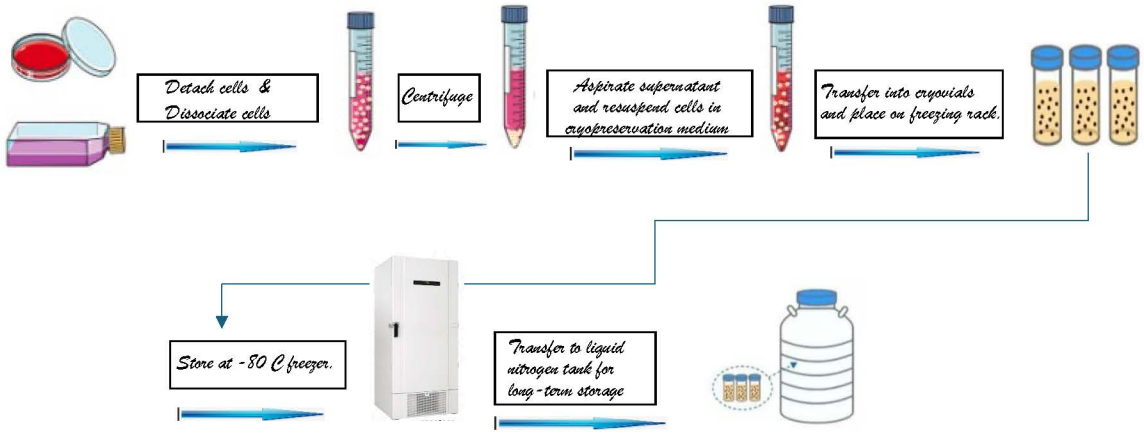
3.Slowly add cryopreservation medium to achieve 1×10^6–5×10^6cells/ml. Gently resuspend cells and transfer to cryovials.

4. Place cryovials in a suitable freezing container (e.g., isopropanol-containing cryobox recommended). Incubate at 4°C for 15 minutes. *→ *Critical: Ensures DMSO penetration into cells. Do not skip this step.*

5. Transfer to -80°C freezer for long-term storage.

*→ *For liquid nitrogen transfer, store at -80° C for ≥24 hours first.**

The figure below is for reference:



II. Cell Thawing:

1. Preheat 10 ml complete MSC medium at 37°C water bath for 15–20 minutes.

2. Retrieve cryovial from -80°C/liquid nitrogen. Thaw in 37°C water bath with gentle agitation until fully melted (no ice crystals), ~2 minutes.

3. Transfer cells to preheated complete medium. Centrifuge at 1,000–1,200 rpm for 5 minutes.

4. Discard supernatant. Resuspend in fresh preheated complete medium.

5. Proceed with standard MSC culture protocols.