



Human Pluripotent Stem Cell Cryopreservation Medium (StemCryo; 50mL)

Catalog #0153

Product Description

StemCryo[®] is a sterile, uniquely formulated medium designed for the cryopreservation of human pluripotent stem cells (e.g. human embryonic stem cells and human induced pluripotent stem cells). This fully defined, animal-component free, serum-free medium provides optimal cell recovery efficiency while maintaining cell pluripotency. This product has a pH of 7.2 at room temperature.

Product Use

StemCryo is for research use only. It is not approved for human or animal use, or for application in *in vitro* diagnostic procedures.

Storage

Store the StemCryo[®] at -20°C. Once thawed, the product may be stored at 4°C for up to two weeks.

Shipping

Dry ice.

Procedure

Cryopreservation may compromise cell quality and performance. The following instructions are specific for cryopreservation of human embryonic stem cells grown in STEMium[™] (Cat. #5801) under feeder-free conditions in one well of a six-well plate. Cells should be frozen when they are in log phase at ~70% confluency.

1. Bring StemCryo[®] to room temperature (15°C- 25°C).
2. Identify and remove differentiated areas.
3. Wash cells twice with DPBS (Cat. #0303) and aspirate.
4. Add 1mL StemDS[®] (Cat. #5803) and incubate to loosen cells. Time of incubation depends on confluency and cell line.
5. Aspirate StemDS[®].
6. Using a P1000 tip and pipet, dissociate cells with 1mL of StemCryo[®].
7. Gently pipette up and down several times to loosen large colonies.
8. Transfer to cryogenic vial and properly tighten the cap.
9. Freeze vials in an isopropanol cryovessel or in a Styrofoam[®] canister at -80°C overnight.
10. Within 12-24 hours, transfer the cells into liquid nitrogen freezer for long-term storage. Cells will be compromised by prolonged storage at -80°C.

Caution: If handled improperly, some components of this product may present a health hazard. Take appropriate precautions when handling this product, including the wearing of protective clothing and eyewear. Dispose of properly.