



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

Catalog #0153

### Product Description

StemCryo<sup>®</sup> 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<sup>®</sup> 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<sup>™</sup> (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<sup>®</sup> 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<sup>®</sup> (Cat. #5803) and incubate to loosen cells. Time of incubation depends on confluency and cell line.
5. Aspirate StemDS<sup>®</sup>.
6. Using a P1000 tip and pipet, dissociate cells with 1mL of StemCryo<sup>®</sup>.
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<sup>®</sup> 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.*