

BioVerde Cell Cryopreserving Medium

Cryopreserving Medium for Various Cell Cultures

CryoScarless DMSO-Free

CryoScarless DMSO-Free is a serum-free and dimethyl sulfoxide (DMSO)-free medium for long-term storage at -80°C or in liquid nitrogen.

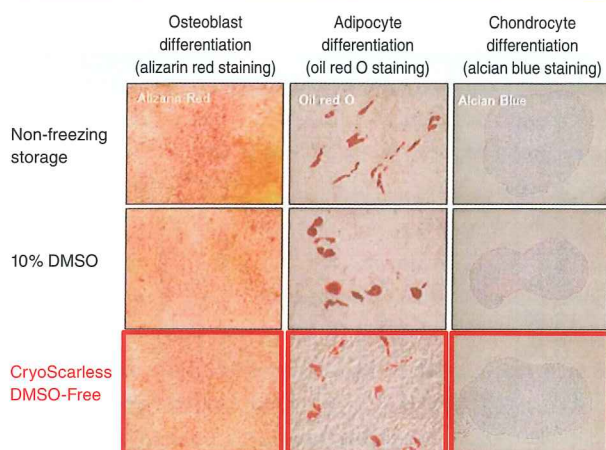
Features

- Serum-free and DMSO-free formulation.
- High cell viability, and no risk of both cytotoxicity of DMSO and contamination by serum-derived proteins.
- Consistent and high cell viability after thawing (> 90% for most of the cell lines).
- Maintaining stem cell pluripotency after thawing.
- Free of bacteria, fungi and mycoplasma contamination.
- Long shelf life. The product is stable for 2 years at 4°C after the date of manufacture.

※ For Research Use Only. Not for Diagnostic Use.

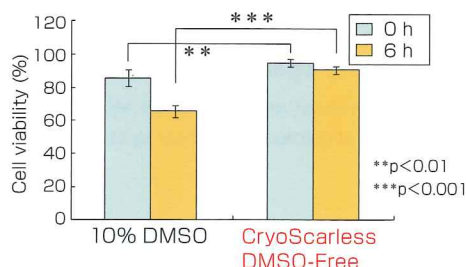


Comparison Data



Differentiation of rat mesenchymal stem cells after thawing.

The results showed that cell pluripotency was maintained after thawing in rat mesenchymal stem cells cryopreserved in CryoScarless DMSO-Free.



Cell viability of rat mesenchymal stem cells after thawing.

Cell viability after cryopreservation with CryoScarless DMSO-Free was significantly higher than cells cryopreserved in 10% DMSO.

0 h : immediately after thawing, 6 h : after cell adhesion

Application

Cell type	Cell viability (%)
L929	97.5 ± 1.2
MG63	93.1 ± 2.3
HT1080	90.2 ± 4.3
Colon26	92.3 ± 2.3
B16F1	94.2 ± 0.6
KB	91.8 ± 0.9
Caco2	93.7 ± 1.9
MC3T3	94.4 ± 0.5
Jurkat E6-1	88.4 ± 2.5
HUVEC	89.9 ± 0.4
HCAEC	90.1 ± 1.6
MEF	94.4 ± 0.8
hACh	93.5 ± 0.7

※ Cells were cryopreserved in CryoScarless DMSO-Free for 3 months at -80°C and these viability were measured at 24h after thawing.

Protocol Outline

1. Precipitate cultured cells by centrifugation and remove the supernatant.
2. Suspend the cells with CryoScarless DMSO-Free medium (1 ml for $5 \times 10^5 - 10^6$ cells). Dispense the cell suspension in 1 ml aliquots to cryopreservation vials.
3. Transfer the vials to -80°C deep freezer.
 - ※ For long-term cryopreservation, transfer the vials to liquid nitrogen storage tank.
4. Remove the cryopreserved cell from storage and quickly thaw in a 37°C shaking water bath. Immediately dilute and gently mix each 1 ml of cells with 10 ml of appropriate cell culture medium.

Ordering Information

Product Name		Size
Maker	Code	
CryoScarless DMSO-Free		
BVD	CPL-A1	100 ml

Preserving Medium for Dermal Tissue

ThelioKeep

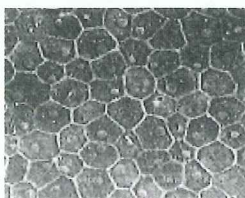
ThelioKeep is a serum-free and dimethyl sulfoxide (DMSO)-free medium for preserving for 1 - 2 weeks at 4°C .

Features

- Maintain the morphology and proliferative ability of epithelium and endothelium tissues.
 - Tissues kept in ThelioKeep can be used for various applications.
 - Serum-free and protein-free formulation.
 - Free of bacteria, fungi and mycoplasma contamination.
 - Long shelf life. The product is stable for 1 years at 4°C after the date of manufacture.
- ※ For Research Use Only. Not for Diagnostic Use.



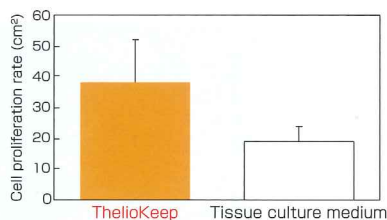
Comparison Data



ThelioKeep



Tissue culture medium



Comparison of the morphology and proliferative ability of corneal endothelium tissue.

Human corneal endothelium were preserved in ThelioKeep for 2 weeks at 4°C .

Protocol Outline

1. Dispense 0.5 ml of ThelioKeep and put it into the microtube containing EGCG tablet provided. Pipette the entire solution back into the bottle of ThelioKeep and mix well.
2. After the EGCG is completely dissolved , transfer a few milliliters of solution to a centrifugation vial. Keep it cool at 4 - 10°C .
 - ※ Prepared ThelioKeep must be used as soon as possible. If storing for 1 - 2 weeks, separate into aliquot and keep at -20°C . To prevent from loss of the activity, frequent freeze-thaw method should be avoided.
3. Immerse the tissue isolated in the centrifugation vial with closed lid. Store at 4°C .
4. Rinse the living tissue with PBS, and then transfer it to the tissue culture medium. Continue the further procedures according to appropriate protocols.
 - ※ For tissue culture procedures, place them under physiological conditions as soon as possible.
 - ※ For preparation of tissue sections, to preserve tissue morphology and retain the antigenicity of the target molecules, fix the tissue with appropriate fixation solution immediately.
 - ※ For extraction of intracellular materials, wash the tissue with cooled PBS thoroughly.

Ordering Information

Product Name		
Maker	Code	Size
ThelioKeep		
BVD	TPO-A1	100 ml

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 9-7 Hongo 2-chome,
 Bunkyo-ku, Tokyo 113-0033, Japan
 URL : <http://www.funakoshi.co.jp/export/>
 e-mail : export@funakoshi.co.jp
 Tel. : +81-3-5684-6296, FAX : +81-3-5684-6297