

Preservation solution for epithelial and endothelial tissues

ThelioKeep

Protocol

Epithelial and endothelial tissues have various functions in living systems. These tissues are characterized as thin membranous structures, physically fragile and difficult to preserve. *ThelioKeep* keeps the structural strength and viability of these membranous tissues.

Kit Components:

Name	Package Size	Note
(1) ThelioKeep	100 mL	Containing no serum.
(2) EGCG Tablet	1 tablet	EGCG: Epigallocatechin-3-O-gallate. The tablet directly in a centrifuge tube

Preparation of ThelioKeep-EGCG:

By using a micropipette under the hood, take 0.5 ~ 1.0 mL of *ThelioKeep* from the bottle, aseptically pour it into the microcentrifuge tube containing *EGCG Tablet* and completely dissolve the tablet in the tube. Pipette the entire solution back into the bottle of *ThelioKeep* and mix well (=ThelioKeep-EGCG).

Usage

1. Preservation of epithelial and endothelial tissues

- (1) Place a few mL of prepared *ThelioKeep-EGCG* into a clean disposable tube and cool it at 4 ~ 10 °C.
- (2) Immerse epithelial or endothelial tissues freshly isolated from experimental animals into the cooled *ThelioKeep-EGCG* prepared in (1). Close the cap and preserve it at 4 °C for 1 ~ 2 weeks.

2. Restoring live tissues from preserved state

- (1) Gently wash the preserved tissues, indicated above, a few times in cold PBS. Transfer the tissues to an experimental medium.
- (2)-1 When the live tissues are used for experiments or cultured, place them under physiological conditions as soon as possible (e.g. 37 °C).
- (2)-2 When slide specimens will be prepared, transfer the tissues to fixatives

immediately after removing from *ThelioKeep-EGCG*.

- (2)-3 When cytoplasmic materials will be extracted from the preserved cells, wash the cells well with cold PBS.

Expiration:

The product can be used for 2 year at 4 ~ 10°C after manufacturing when *ThelioKeep* and *EGCG Tablet* are stored separately.

Storage:

The prepared *ThelioKeep-EGCG* must be used as soon as possible. Left-over solution can be stored at -20 °C for up to 2 weeks without losing its functional quality. Do not freeze and thaw *ThelioKeep-EGCG* repeatedly.

Precautions:

- This *ThelioKeep-EGCG* has not been tested on all epithelial and endothelial tissues. Test the solution on a few samples before you preserve the entire batch of tissues in your experiments. This product is for research use only.
- In some tissues, the concentration of EGCG in the solution may be too high. In such cases, adjust the amount of the tablet to be dissolved in the solution to reduce the final concentration.
- We, BMG, are not liable to any accidents or damages caused by improper usage of the product.

Quality control:

Bacterial tests:

Bacteria, fungi or mycoplasma
contamination is all negative.

Chemical tests:

(1) pH = 6.7 ~ 8.0 at RT
(2) Endotoxin < 0.5 EU/mL

Ordering Information:

Product	Package Size	Code No.
ThelioKeep	100 mL	TPO-A1

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