



Applied Biological Materials Inc.

Telephone: 1-866-757-2414

Email: info@abmgood.com

Website: www.abmgood.com

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Renal Epithelial Cell Growth Kit

Cat. No. TM201

Product Description

The Renal Epithelial Cell Growth Kit is an antibiotic-free, specialized medium system designed to support the optimal growth and maintenance of primary human renal epithelial cells. This kit delivers a carefully balanced combination of essential nutrients, hormones, and growth factors that promote healthy cell morphology and proliferation while preserving key renal epithelial characteristics. It is ideal for kidney function studies, nephrotoxicity testing, and renal disease research.

Key benefits include:

- **Optimized for renal epithelial cells** – supports growth and maintenance in vitro
- **Preserves morphology and phenotype** – maintains key renal characteristics
- **Supports consistent growth** – supplies essential nutrients and growth factors
- **Ideal for kidney research** – suitable for toxicity and disease studies

Components

Product	Part No.	Storage Condition
Basal Medium 1	BM001-500	2–8°C
Fetal Bovine Serum	SM004-12.5	–20°C
L-Alanyl-L-Glutamine Supplement (200 mM)	SM003-6	2–8°C
RECGK Supplement 1	TM201-1	–20°C
RECGK Supplement 2	TM201-2	–20°C

Storage and Stability

- Once supplemented, complete medium may be stored at 2-8°C and should be used within 30 days.
- Avoid freezing the complete medium and avoid repeated freeze-thaw cycles of supplements.

Protocol

1. Thaw each supplement at room temperature (15–25°C) or overnight at 2-8°C.
2. Aseptically, in a biosafety cabinet, remove 20 ml of basal medium from the bottle and discard.
3. Add the specified volume of each supplement, as shown in the table below, to the bottle of basal medium and mix thoroughly.
4. Mix gently until homogeneous. Supplement addition may cause slight temporary cloudiness.

Note: The final reconstituted medium volume is 500 ml.

Product	Part no.	Quantity
Fetal Bovine Serum	SM004-12.5	12.5 ml
L-Alanyl-L-Glutamine Supplement (200 mM)	SM003-6	6 ml
RECGK Supplement 1	TM201-1	50 µl
RECGK Supplement 2	TM201-2	605 µl

For research use only. Not intended for therapeutic or diagnostic use.