



Applied Biological Materials Inc.

Telephone: 1-866-757-2414

Email: info@abmgood.com

Website: www.abmgood.com

Version 1: June 11th 2026

Keratinocyte Growth Medium Kit (Low Ca²⁺)

Cat. No. TM203

Product Description

Keratinocyte Growth Medium Kit (Low Ca²⁺) is an optimized medium system designed for the culture of primary human keratinocytes under serum-free and low calcium conditions, with a final calcium concentration of 100 µM (0.1 mM) Ca²⁺. By maintaining reduced calcium levels, the kit supports keratinocyte proliferation while minimizing premature differentiation, making it ideal for studies in epidermal biology, skin regeneration, and keratinocyte signaling. This complete kit includes a basal medium and optimized supplements, delivering consistent, reproducible performance for dermatology and tissue engineering research.

Key benefits include:

- Promotes primary keratinocyte proliferation under low Ca²⁺ conditions
- Reduces premature keratinocyte differentiation

Components

Product	Cat. No.	Storage Conditions
KGMK (Low Ca ²⁺) - Basal Medium	TM203-0	2-8°C
KGMK (Low Ca ²⁺) - Supplement 1	TM203-1	-20°C
KGMK (Low Ca ²⁺) - Supplement 2	TM203-2	-20°C
KGMK (Low Ca ²⁺) - Supplement 3	TM203-3	-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 9 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	Cat. No.	Quantity
KGMK (Low Ca ²⁺) - Supplement 1	TM203-1	1.8 ml
KGMK (Low Ca ²⁺) - Supplement 2	TM203-2	2.0 ml
KGMK (Low Ca ²⁺) - Supplement 3	TM203-3	5.1 ml

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