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Human Cardiomyocyte Maintenance Medium Kit

Cat. No. TM212

Product Description

The Human Cardiomyocyte Maintenance Medium Kit is a serum-free, chemically defined medium system optimized to support human embryonic stem cells (hESCs)-derived cardiomyocytes. The formulation supports maintenance of cardiac phenotype and function, enabling hESC-derived cardiomyocytes to exhibit robust spontaneous and synchronous beating, and preserved sarcomeric structure. Ideal for applications including cardiac physiology research, drug screening, cardiotoxicity assessment, and disease modeling.

Key Benefits Include:

- Serum-free and chemically defined
- Maintains contractility and cardiac phenotype
- Compatible with hESC-derived cardiomyocytes

Components

Product Component	Part No.	Storage Conditions
Basal Medium 6	BM006-100	2-8°C
HCMMK - Supplement 1	TM212-1	-20°C

Storage and Stability

- Once supplemented, complete medium should be stored at 2-8°C and used within 30 days.
- Do not freeze the complete medium.
- Avoid repeated freeze-thaw cycles of HCMMK - Supplement 1.

Protocol

1. Thaw HCMMK - Supplement 1 at room temperature (15–25°C) or overnight at 2-8°C.
2. In a biosafety cabinet, remove 2 ml of Basal Medium 6 and discard.
3. Add 2 ml of HCMMK - Supplement 1 to Basal Medium 6 (98 ml). Mix gently by pipetting up and down several times until the solution is homogeneous.
 - a. Avoid vigorous shaking or vortexing, as this may introduce excessive bubbles.
 - b. If bubbles form, allow the medium to stand briefly until they dissipate before use.
 - c. Supplement addition may cause slight temporary cloudiness.

Note: The final reconstituted medium volume is 100 ml.

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