MyoTonic™ Differentiation Medium

Catalog #MD-5555

COOK® MYOSITE

MyoTonic™ Differentiation Medium

Instructions for Use

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Use Restrictions

This product is distributed for research use only. The use of this product is not approved for human or veterinary use. Do not use this product with in vitro diagnostics.

Buyer has no rights to transfer products, components, or materials made using these products, or to use these products for commercial purposes. Commercial purposes include: use of products or their components in manufacturing; use of products or their data components to provide a service, information or data; use of products or their components for therapeutic or diagnostic purposes; resale of products or their components.

Aseptic Technique

The use of aseptic technique is required for all culturing activities. This includes the use of sterile materials and appropriate environmental conditions to ensure sterility when manipulating cultures and preparing reagents.

Use of reagent aliquotting, rather than repeated use of large volumes (e.g., entire bottle), along with the use of disposable materials/items is highly recommended. The use of vented culture flasks rather than loosened caps is highly recommended.

Safety

This product may contain human source material. Treat as potentially infectious. Handle at Biological Safety Level 2 to minimize exposure to potentially infectious agents.

Required Reagents

• MyoTonic™ Differentiation Medium, Cook MyoSite Catalog #MD-5555

• Antibiotic reagent(s), if desired (not supplied)

Differentiation Medium Preparation

1. Add contents of antibiotic reagent(s) to MyoTonic™ Differentiation Medium, if desired.

2. Store MyoTonic™ Differentiation Medium at 2-8°C.

Differentiation Medium Use

1. Prepare an aliquot of warm (37°C) differentiation medium adequate for each of the culture flask(s)/well(s) (0.2 mL/cm²).

2. Aspirate growth culture medium from flask(s)/well(s) and replace with warmed differentiation medium.

3. Differentiation of skeletal muscle cell cultures will become visually apparent within 3-4 days following replacement of growth medium with differentiation medium. Differentiation will be marked by the presence of elongated, multi-nucleated myotubes.

4. Differentiation medium should be replaced every 3 days. Take care not to dislodge differentiated myotube structures from the culture surface during medium changes.

Note: High cell culture density, ≥ 75% confluence (i.e., the amount of surface area occupied by the cells), is recommended for a more robust differentiation response.

Additional Information

Primary cultures have a finite lifespan and limited number of population doublings in vitro. Cook MyoSite cryopreserved cells and associated reagents are tested prior to shipment for contaminating agents. Contamination of cell cultures may affect cell growth, function and behavior.

For detailed information concerning Quality Control testing and specifications, please refer to Certificate of Analysis.

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