

Quick-Muscle™ Skeletal Maintenance Medium

Catalog Number: EXGS-QMSM

User Manual

This kit (EXGS-QMSM) contains 1 set of reagents for use with
a total of 4 wells of a 24-well plate for 2 weeks

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I. Introduction

Thank you for purchasing the Quick-Muscle™ Skeletal Maintenance Medium. This kit is intended for use after completing the protocol of the Quick-Muscle™ Skeletal SeV Complete kit (Cat. Number: EXGS-QMSSV). The Quick-Muscle™ Skeletal SeV Complete kit allows users to differentiate human pluripotent stem cells (hPSCs), including embryonic stem cells (ESCs) and induced pluripotent stem cells (iPSCs), into myosin heavy chain (MHC)-positive muscle cells within one week. To extend your culture of MHC-positive muscle cells beyond Day 6, we recommend culturing the cells with Quick-Muscle™ Skeletal Maintenance Medium. The kit provides sufficient skeletal muscle maintenance medium for 4 wells of a 24-well plate for up to 2 weeks (Catalog Number: EXGS-QMSM).

II. Kit Contents

Upon receipt of this kit, immediately store all reagents at their proper storage temperatures as described in the table below. All reagents are shipped on dry ice.

| List of Components | | |
|--------------------|--------|--------------------|
| Reagents | Amount | Storage Conditions |
| Component M1 | 750 µl | -20 °C |

III. Additional Materials Required

The following materials are needed but not supplied with this kit:

- DMEM/F12 (e.g., ThermoFisher, Catalog Number: 21331-020)
- Glutamax (100x) (e.g., ThermoFisher, Catalog Number: 35050061)
- Penicillin-Streptomycin (e.g., ThermoFisher, Catalog Number: 15140-122)

IV. Pre-Protocol Preparation

- Prepare a skeletal muscle maturation medium by mixing following reagents after thawing Component M1 at 4°C overnight. The medium is called Medium M4 and stable for up to 2 weeks when stored at 4°C.

| No. | Reagent | Volume |
|-----|--|----------|
| 1 | DMEM/F12 | 22.08 ml |
| 2 | 200 mM Glutamax (100x) | 230 µl |
| 3 | Penicillin-Streptomycin (10000 units/ml; 100x) | 230 µl |
| 4 | Component M1 | 690 µl |

V. Protocol

Day 1-14

1. Warm Medium M4 at room temperature for 20-30 minutes.
2. Pipet out old medium from each well using a P1000 pipettor and add 400 µl Medium M4 to it.
3. Incubate the cultures at 37°C, 5% CO₂ overnight.
4. Repeat steps 1-3 every day.

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| Category | Product | Request Quote (Catalog number) | | |
|--|--|--------------------------------|-------------------|--------------------|
| | | SeV Complete Kit | mRNA Complete Kit | Maintenance Medium |
| Quick-Tissue™ Series Differentiation Kit (mainly for 4 wells of 24-well plate) | Quick-Endothelium™ Vascular with Optional Drug Selection | | \$399 (EXGS-QEV) | \$229 (EXGS-QEVM) |
| | Quick-Trilineage™ Differentiation Kit* | \$549 (EXGS-Q3D) | | |
| | Quick-Neuron™ Mixed | \$349 (EXGS-QNMSV) | | \$129 (EXGS-QNMM) |
| | Quick-Neuron™ Cholinergic | \$349 (EXGS-QNCSV) | \$299 (EXGS-QNC) | \$129 (EXGS-QNCM) |
| | | \$999 (EXGS-QNCSV96)** | | |
| | Quick-Neuron™ Dopaminergic | \$399 (EXGS-QNDSV) | \$399 (EXGS-QND) | \$169 (EXGS-QNDM) |
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| | Quick-Muscle™ Skeletal | \$349 (EXGS-QMSSV) | | \$129 (EXGS-QMSM) |
| | Quick-Hepatocyte™ | \$499 (EXGS-QHSV) | | \$149 (EXGS-QHM) |
| | Quick-miniBrain™ | \$999 (EXGS-QMBSVMR) | | |

15% off for 3 or more kit purchases per order

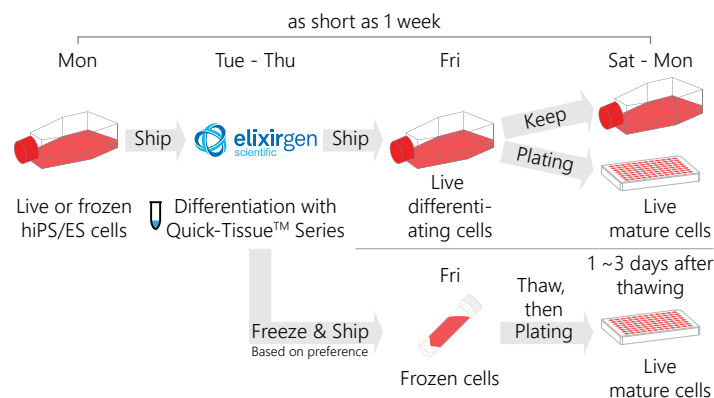
* This kit provides 2 wells per each tissue (total 6 wells of 24-well plate)

** This kit is for 48 wells of a 96-well microplate format

| Category | Product | Size | Request Quote (Catalog number) |
|--|-----------------------------------|--|--------------------------------|
| Quick-Tissue™ Series Differentiation Support | Quick-Tissue™ Mesendoderm Booster | 8 wells of 24-well plate | \$99 (EXGS-QTMB) |
| | Quick-Tissue™ Adaptation Kit | a 35-mm dish or 1 well of 6-well plate | \$169 (EXGS-QTA1) |
| | New product coming soon! | | |
| Reagents for Maintaining Undifferentiated Stem Cells | Ajinomoto StemFit® Basic02 | 500 mL | Ask (EXGS-ASB02) |
| | Nippi iMatrix-511 silk | 175 µg x 6 tubes | Ask (EXGS-NI511S) |
| | Nippi iMatrix-511 | 175 µg x 6 tubes | \$690 (EXGS-NI511) |

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Quick-Tissue™ Stem Cell Differentiation Services



Elixirgen Scientific provides pluripotent stem cell differentiation services with the world's fastest turnaround time. Customers can simply ship live iPS/ES cells in a T-25 flask and will receive live or frozen cells in a week (express service) or two weeks (regular service). Contact services@elixirgenscientific.com for more details to customize for your project. Currently Elixirgen Scientific offers all tissue types from kits for cell differentiation services. More tissue types are coming soon!