

# Quick-Hepatocyte™ Maintenance Medium

Catalog Number: EXGS-QHM

## User Manual

This kit (EXGS-QHM) 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-Hepatocyte™ Maintenance Medium. This kit is intended for use after completing the protocol of the Quick-Hepatocyte™ kit (Catalog Number: EXGS-QHSV). The Quick-Hepatocyte™ kit allows users to differentiate human pluripotent stem cells (hPSCs), including embryonic stem cells (ESCs) and induced pluripotent stem cells (iPSCs), into albumin (ALB)-positive hepatocyte-like cells within 9 days. To extend your culture of hepatocyte-like cells beyond 9 days, we recommend culturing the cells with Quick-Hepatocyte™ Maintenance Medium. The kit provides sufficient medium for 4 wells of a 24-well plate for up to 2 weeks (Catalog Number: EXGS-QHM).

## 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 H1	1.2 ml x 2	-20 °C
Component H2	80 µl	-20 °C

## III. Additional Materials Required

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

- Leibovitz's L-15 Medium, GlutaMAX™ Supplement (ThermoFisher Scientific, Catalog Number: 31415-029)
- KnockOut Serum Replacement (KSR, ThermoFisher Scientific, Catalog Number: 10828-010)
- Penicillin-Streptomycin (e.g., ThermoFisher, Catalog Number: 15140-122)

## IV. Pre-Protocol Preparation

- Prepare a hepatocyte maturation medium by mixing following reagents after thawing Component H1 at 4°C overnight and Component H2 at room temperature for 20-30 minutes. The medium is called Medium H3 and stable for up to 2 weeks when stored at 4°C.

No.	Reagent	Volume
1	Leibovitz's L-15 Medium, GlutaMAX™ Supplement	10.472 ml
2	KnockOut Serum Replacement	1.4 ml
3	Penicillin-Streptomycin (10000 units/ml; 100x)	140 µl
4	Component H1	2.31 ml
5	Component H2	77 µl

## V. Protocol

### Day 1

1. Warm Medium H3 at room temperature for 20-30 minutes.
2. Pipet out old medium from each well using a P1000 pipettor and add 500  $\mu$ l Medium H3 to it.
3. Incubate the cultures at 37°C, 5% CO<sub>2</sub> overnight.
4. Repeat steps 1-3 every 2 days.

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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)
	Quick-Neuron™ GABAergic	\$399 (EXGS-QNGSV)	\$399 (EXGS-QNG)	\$149 (EXGS-QNGM)
	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

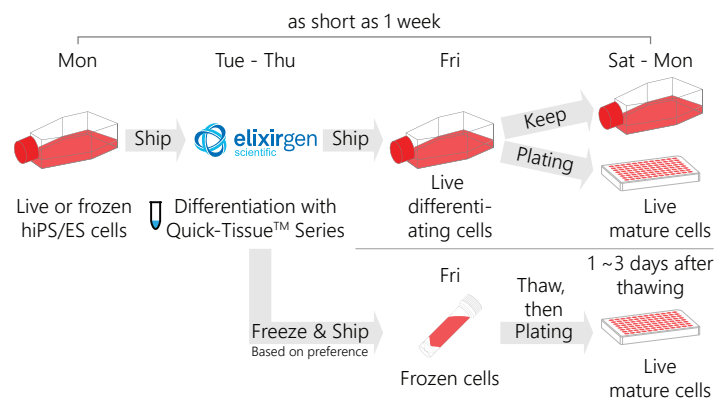
\* This kit provides 2 wells per each tissue (total 6 wells of 24-well plate)

\*\* 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](mailto: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!