

Corning® Hepatocyte Maintenance Medium

For the cultivation of hepatocytes



Corning Hepatocyte Maintenance medium (VWR Cat. No. 89370-898).



Corning Matrigel Matrix (VWR Cat. No. 47743-716).

Introduction

Hepatocyte Maintenance medium is designed for the *in vitro* cultivation and maintenance of hepatocytes for research applications, drug discovery, and studies related to drug-induced liver injury. This specialized medium is optimized to maintain the physiological relationships between hepatic Phase I and II drug metabolism enzymes (influx and efflux transporters) and meet the long-term high metabolic needs of hepatocytes. Hepatocyte Maintenance medium is defined, animal-free, serum-free, and optimized for primary human hepatocytes.

One step, ready-to-use

Unlike many hepatocyte media, Hepatocyte Maintenance medium does not require the addition of a frozen supplement.

- ▶ No thawing
- ▶ No measuring
- ▶ No waiting — it is ready to use

Proven performance

Hepatocytes cultured in Hepatocyte Maintenance medium show excellent cell morphology and high viability.

Suggested uses

- ▶ Maintenance of primary hepatocytes
- ▶ *In vitro* cytotoxicity panels
- ▶ Metabolic studies
- ▶ Cytology studies

Benefits of using Corning Matrigel® matrix overlay as supported by the medium protocol

- ▶ Corning Matrigel matrix overlay restores hepatocyte polarity
- ▶ Restoration of membrane polarity is essential if cell monolayer is used to study hepatocyte transporters
- ▶ Further enhancement in basal expression of CYPs activity [CYP1A2, CYP3A4, CYP2B6] has been observed

Note: Do not use if the objective of the experiment is to study CYP induction.

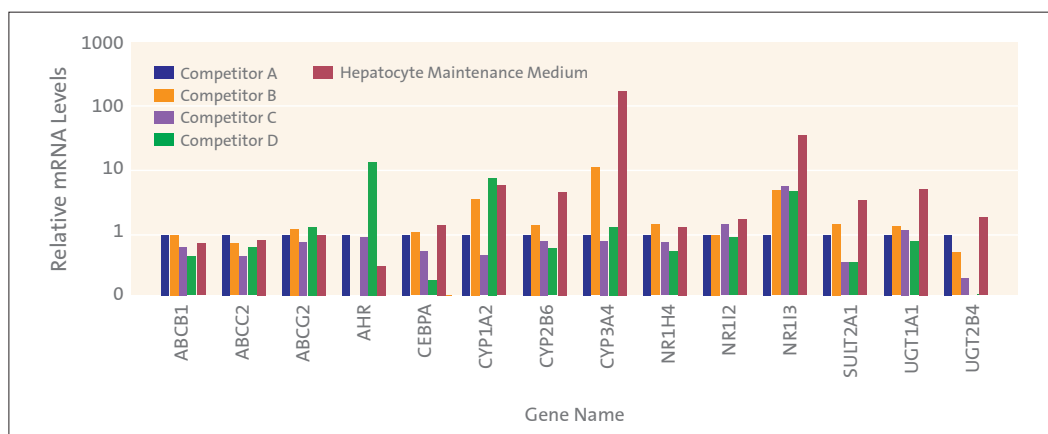


Figure 1. Comparative gene expression of PHH (Donor Hu4237) cultured on a Collagen I plate in Corning Hepatocyte Maintenance medium, and 4 competitive hepatocyte media. Quantitative real-time PCR (qPCR) was used to generate the data.



Corning® BioCoat™ Matrigel® matrix 6-well, clear flat bottom, TC-treated multiwell plate (VWR Cat. No. 62405-144)

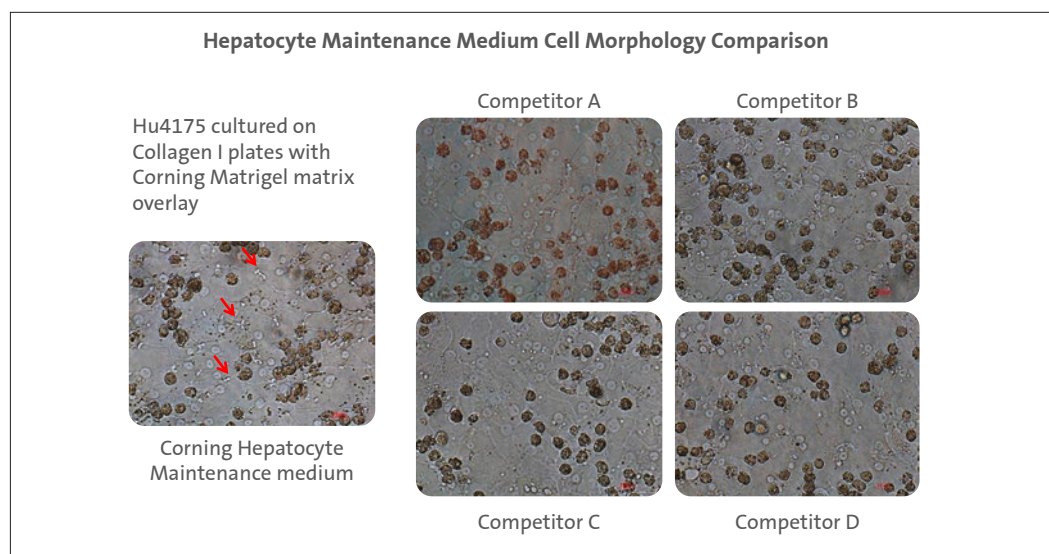


Figure 2. Cell morphology of Hu4175 cultured on Collagen I plates with Corning Matrigel matrix overlay comparing five different media. Similar cell morphologies were observed in all. Hepatocytes in Corning medium showed more distinct bile canalicular-like structures.

Ordering Information

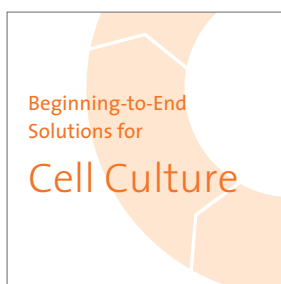
Corning Hepatocyte Maintenance Medium

VWR Cat. No.	Corning Cat. No.	Description	Size	Qty/Pk
89370-898	40-550-CV	Hepatocyte maintenance medium	500 mL	1

Corning Matrigel® Matrix

VWR Cat. No.	Corning Cat. No.	Description	Size	Qty/Cs	Qty/Pk
47743-716	356237	Corning Matrigel basement membrane matrix, phenol red-free	10 mL	1	1
62405-144	354510	Corning BioCoat Matrigel matrix 6-well, clear flat bottom, TC-treated multiwell plate	—	5	5

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It is this expertise, plus a 160-year legacy of Corning innovation and manufacturing excellence, that puts us in a unique position to be able to offer a beginning-to-end portfolio of high-quality, reliable life sciences consumables.

For additional product or technical information, visit www.vwr.com/corningcellcultureworkflow, call 1.800.932.5000, or contact your VWR representative.

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