

# Corning® Hepatocyte Maintenance Medium

For the cultivation of hepatocytes

CORNING



Corning Hepatocyte Maintenance medium (Cat. No. 40-550-CV).



Corning Matrigel Matrix (Cat. No. 356237).

## 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.

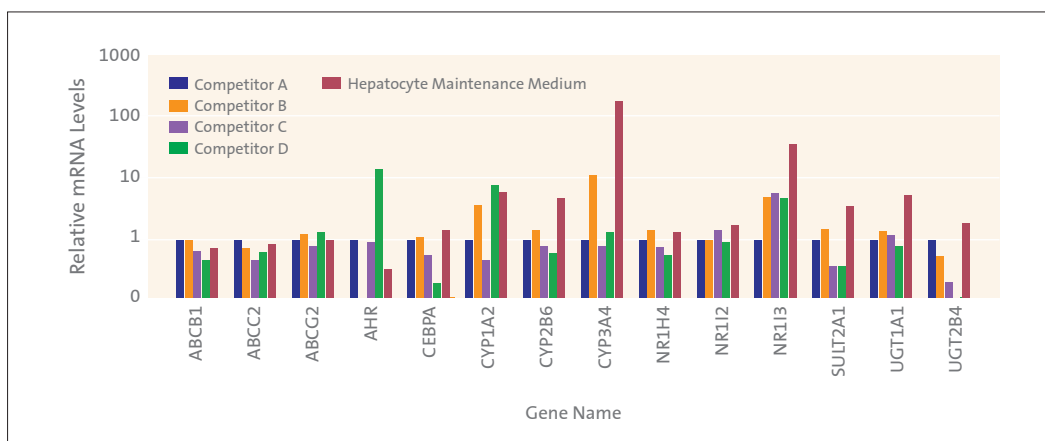
## Suggested uses

- ▶ 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

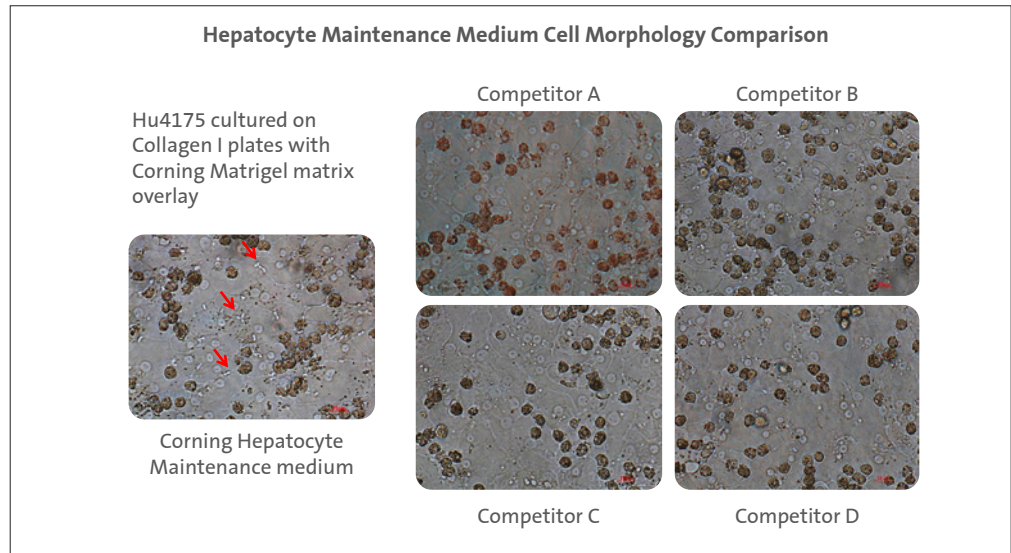
**Note:** Do not use if the objective of the experiment is to study CYP induction.



**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 (Cat. No. 354510)



**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 canicular-like structures.

## Ordering Information

### Corning Hepatocyte Maintenance Medium

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

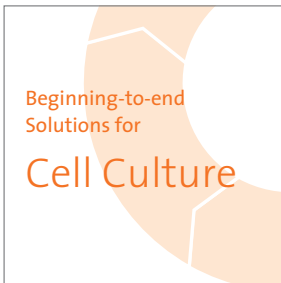
For additional product or technical information, please visit [www.corning.com/lifesciences/media](http://www.corning.com/lifesciences/media) or call 1.800.235.5476.

### Corning Matrigel® Matrix

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

For additional product or technical information, please visit [www.corning.com/lifesciences](http://www.corning.com/lifesciences) or call 1.800.492.1110

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At Corning, cells are in our culture. In our continuous efforts to improve efficiencies and develop new tools and technologies for life science researchers, we have scientists working in Corning R&D labs across the globe, doing what you do every day. From seeding starter cultures to expanding cells for assays, our technical experts understand your challenges and your increased need for more reliable cells and cellular material.

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

**CORNING** | **FALCON**® | **AXYGEN**® | **GOSELIN**™ | **PYREX**®

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