

HH1 Plateable Primary Human Hepatocytes

Description and Applications

High quality primary human hepatocytes with authentic cell morphology.

These cells are suitable for assessing drug-drug Interaction assays, metabolism studies, drug influx and efflux studies, compound uptake, hepatotoxicity assays, hepatic clearance, and HBV/HCV replication assays. Primary human hepatocytes are the only faithful liver model which is validated on Transporter Expression, CYP activity, Drug response and HBV uptake. These cells enable *in vivo* correlations from *in vitro* data to form conclusions regarding a candidate drug's effect on the liver.

All cells available from Cell Guidance Systems are from ethically sourced surgical samples. Donor consent is compliant with all applicable US, UK and EU rules and directives. Surgical material has been gently processed under stringently controlled conditions to yield the highest quality cells for reliable results.

Specifications

Number of Cells per vial	>5 million
Pathogen testing	Tested negative for HBV, HCV and HIV. No bacterial or fungal overgrowth
Viability	>75%
Monolayer formation	Formation of a confluent monolayer at 350,000 cells/well (24 well plates) within 24 hours.
Monolayer survival	>5 days
BCA protein content	200 ug/cm ² on a monolayer
Additives	Thawing medium, percolation medium
Metabolic-parameters tested	Qualification is based on literature-based average and standard population deviation for: CYP2D6, CYP2C9, CYP2B7, CYP3A4, CYP3A (general) UGT2B7, UGT1A9, UGT1A4, UGT1A6 Phase II (combined, general non-specific test)

Shipping Stability and Storage

Shipping	Liquid nitrogen
Stability and Storage	Liquid nitrogen (stable for up to 12 months)

General Guidance for Handling and Use

- **Handling:** Cells should be transferred to liquid nitrogen storage immediately upon receipt.
- **Plating:** Cells should always be pipetted gently