

# Product Characterization Sheet

## 051-223

Mouse Hepatocytes, Catalog Number 82012



### Classification

Plateability	Suspension
Number of days plateable	NA
Confluency	NA
P450 Inducibility	NA
Number of donors	6

### Donor Demographics

Gender	Male
Strain	CD-1
Age	8-12 weeks
Weight	30-35 g
Infectious diseases	Negative

### Post-thaw Viability and Yield

Viability	91 %
Yield	3.6 million

**Characterization:** Hepatocytes were thawed using 37°C UCRM™ and centrifuged for 5 minutes at 50g. After removing the supernatant, hepatocytes were re-suspended in HQM™ and counted for viability and yield using the Trypan Blue exclusion method.

### Drug Metabolism Activity

Drug Metabolizing Enzyme	Substrate (μM)	Incubation Time (minutes)	Metabolite Quantified	Activity (pmol/minute/million cells)
ECOD	7-Ethoxycoumarin (100)	30	7-Hydroxycoumarin	557.91 ± 10.65
UGT	7-Hydroxycoumarin (100)	30	7-Hydroxycoumarin glucuronide	1346.62 ± 52.16
Sulfotransferase	7-Hydroxycoumarin (100)	30	7-Hydroxycoumarin sulfate	67.64 ± 11.62

**CYP450 Activity Assessment:** The hepatocytes were incubated at a cell density of 0.5 million cells/mL in a 12-well plate (500,000 hepatocytes/well) for the designated time durations with isoform-selective substrates. The metabolites were identified and analyzed using LC-MS/MS.

IVAL cell culture media and tissue culture plates used in this evaluation:

- Recovery of thawed hepatocytes - Cat. No. 81015 - UCRM™ Universal Cryopreservation Recovery Media, 50 mL tube
- Suspension and incubation of hepatocytes - Cat. No. 81039/81040 - HQM™ Hepatocyte Incubation Media, 50 mL tube/500 mL bottle

To inquire about our products and services or for technical questions please contact:

- In Vitro ADMET Laboratories by phone at +1 (866) 458-1094 or +1 (410) 869-9037 or email at [info@invitroadmet.com](mailto:info@invitroadmet.com)