

Product Characterization Sheet

DBM103

Dog Hepatocytes, Catalog Number 82027



Classification

Suspension	X
Metabolism	X
Confluency	20 %
Number of Donors	1

Lot Demographics

Gender	Male
Strain	Beagle
Age	5-6 months
Infections/Diseases	Negative

Post-thaw

Viability	81 %
Yield	3.8 million

Characterization: Hepatocytes were thawed using 37°C UCRM™ and centrifuged for 5 minutes at 100g. 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

Enzyme	Metabolite Measured	Activity pmol/million cells/min
ECOD	7-Ethoxycoumarin	TBD
UGT	7-Hydroxycoumarin glucuronide	TBD
Sulfotransferase	7-Hydroxycoumarin sulfate	TBD

Activity Assessment: The hepatocytes were incubated at a cell density of 0.5 million hepatocytes/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 API 3000 mass spectrometer connected to Agilent 1100 series HPLC.

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