Product Characterization Sheet 062-255/ 062-256





Classification

Plateability	Suspension			
Number of days plateable	NA			
Confluency	NA			
P450 Inducibility	NA			
Number of donors	1			

Donor Demographics

Gender	Female	
Strain	Beagle	
Age	4-6 months	
Weight of liver	200-250 g	
Infectious diseases	Negative	

Post-thaw Viability and Yield

Viability	95 %	
Yield	10.3 million	

<u>Characterization:</u> 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

Drug Metabolizing Enzyme	Substrate (μΜ)	Incubation Time (minutes)	Metabolite Quantified	Activity (pmol/minute/million cells)
ECOD	7-Ethoxycoumarin (100)	30	7-Hydroxycoumarin	923.51 ± 415.41
UGT	7-Hydroxycoumarin (100)	30	7-Hydroxycoumarin glucuronide	718.48 ± 20.58
Sulfotransferase	7-Hydroxycoumarin (100)	30	7-Hydroxycoumarin sulfate	72.66 ± 17.72

<u>CYP450 Activity Assessment:</u> 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