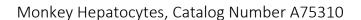
Product Characterization Sheet 10191022





Classification

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

Donor Demographics

Gender	Female	
Strain	Rhesus	
Age	NA	
Weight	NA	
Infectious diseases	Negative	

Post-thaw Viability and Yield

Viability	97 %	
Yield	Yield 6.2 million	

<u>Characterization:</u> Hepatocytes were thawed using 37°C UCRM™ and centrifuged for 10 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 (μM)	Incubation Time (minutes)	Metabolite Quantified	Activity (pmol/minute/million cells)
ECOD	7-Ethoxycoumarin (100)	30	7-Hydroxycoumarin	323.2
UGT	7-Hydroxycoumarin (100)	30	7-Hydroxycoumarin glucuronide	128.6
Sulfotransferase	7-Hydroxycoumarin (100)	30	7-Hydroxycoumarin sulfate	53.8

<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