Product Characterization Sheet RSM100





Classification

Plateability	Suspension			
Number of days plateable	NA			
Confluency	NA			
P450 Inducibility	NA			
Number of donors	4			

Donor Demographics

Gender	Male	
Strain	Sprague Dawley	
Age	7-10 weeks	
Weight	200-250 g	
Infectious diseases	Negative	

Post-thaw Viability and Yield

Viability	86 %	
Yield	5.4 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	268 ± 48
UGT	7-Hydroxycoumarin (100)	30	7-Hydroxycoumarin glucuronide	293 ± 68
Sulfotransferase	7-Hydroxycoumarin (100)	30	7-Hydroxycoumarin sulfate	35 ± 3.7

<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:

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