

Product Characterization Sheet

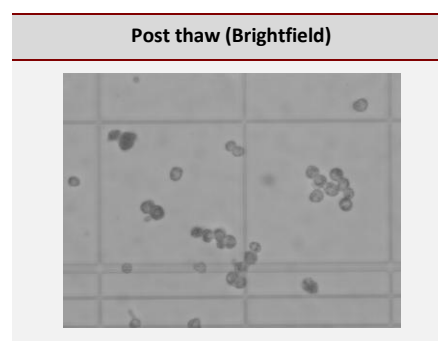
PCS 031-218

Rat Hepatocytes

Catalog Number	Lot Number	Strain	Classification	
82016	031-218	Sprague Dawley	• Suspension	
Sex	Age/Weight	Infections/Diseases		
Male	8 weeks/200-250 g	Negative		
Post-thaw Viability and Yield				
Thawing medium	Optimal centrifuge conditions	Incubation medium	% Viability	Viable cell yield per vial
UCRM™	100 x g for 5 minutes	HQM™	76 %	2.6 x 10 ⁶ cells

Hepatocytes were thawed using 37°C UCRM™ and centrifuged for 5 minutes at 100g. After removing the supernatant, hepatocytes were re-suspended in 4°C HQM™ and counted for viability and yield using the Trypan Blue exclusion method.

Phase I and Phase II Assessment				
Metabolic Pathway	Substrate	Concentration	Incubation (min.)	Metabolic Activity (pmol/10 ⁶ cells/min.)
ECOD	7-Ethoxycoumarin	100 µM	30	237.41 ± 8.59
UGT	7-Hydroxycoumarin	100 µM	30	1232.18 ± 88.46
Sulfotransferase	7-Hydroxycoumarin	100 µM	30	43.48 ± 3.86



The hepatocytes were incubated at a cell density of 0.5 million hepatocytes/mL in a 12-well plates 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
- Incubation medium - Cat. No. 81039 - HQM™ Hepatocyte Incubation Media, 50 mL tube

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