Product Characterization Sheet 10364011





Pooled Monkey Hepatocytes, Catalog Number A75681

Classification

Plateability	Plateable
Number of days plateable	5
Confluency	100 %
P450 Inducibility	Yes
Number of donors	20

Lot Demographics

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Gender	Male
Strain	Cynomolgus
Age	NA
Weight	NA
Infectious diseases	Negative

Post-thaw Viability and Yield

Viability	98 %
Yield	6.0 million

<u>Characterization:</u> Hepatocytes were thawed using 37° C UCRMTM and centrifuged for 10 minutes at 100g. After removing the supernatant, hepatocytes were re-suspended in UPCMTM and counted for viability and yield using the Trypan Blue exclusion method. Cells were plated at a density of 0.7 million cells per mL in a hand-coated collagen plate and allowed to attach 4-6 hours prior to a Matrigel® overlay.

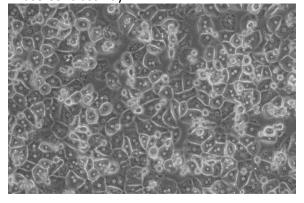
P450 Induction

Drug Metabolizing Enzyme	Inducers (μM)	Fold Induction (Gene Expression)
CYP1A1	3-methylcholanthrene (2)	2.4
CYP1A2	3-methylcholanthrene (2)	5.4
CYP3A8	Rifampin (10)	12.2
CYP3A8	Phenobarbital (500)	15.1

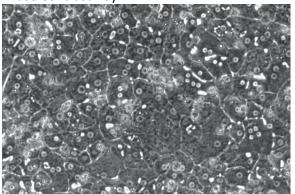
<u>CYP450 Induction Assessment:</u> 96 well cultures at a cell density of 0.5 million hepatocytes/mL (50,000 hepatocytes/well) were used in the CYP450 induction assessment. The hepatocytes were cultured as collagen-Matrigel® sandwich for 1 day followed by treatment duration of 48 hours for mRNA using known enzyme inducers. After the treatment period, cells were harvested and gene expression was quantified by RT-PCR. Values reflect mean and standard deviation of triplicate treatments (N=3).

Photomicrographs (100X, Phase Contrast)

Phase Contrast Day 2



Phase Contrast Day 4



Monolayer Comments: 10364011 has a good attachment efficiency at 90 % and continues to develop a monolayer confluency of 100 % by day 3. This lot exhibits excellent morphology and remains intact for 5 days in culture.

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
- Initial plating of hepatocytes Cat. No. 81016 UPCM™ IVAL Universal Primary Cell Plating Medium, 50 mL tube
- Sandwich culture with 0.25 mg Matrigel® Cat. No. 81018/81019 HIM™ Hepatocyte Induction Media, 50 mL tube/500 mL bottle
- Suspension and incubation of hepatocytes Cat. No. 81039/81040 HQM™ Hepatocyte Incubation Media, 50 mL tube/500 mL bottle
- Collagen coated plates Cat. No. 71006 CellAffix™ 24-well Collagen Hand Coated tissue culture plate, 5 plates per pack

To inquire about our products and services or for technical questions please contact:

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