

# Product Characterization Sheet

## 10353012

Pooled Monkey Hepatocytes, Catalog Number A75682



### Classification

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

### Lot Demographics

Gender	Female
Strain	Cynomolgus
Age	5.8 years
Weight	NA
Infectious diseases	Negative

### Post-thaw Viability and Yield

Viability	92 %
Yield	4.8 million

**Characterization:** Hepatocytes were thawed using 37°C UCRM™ and centrifuged for 10 minutes at 100g. After removing the supernatant, hepatocytes were re-suspended in UPCM™ 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.

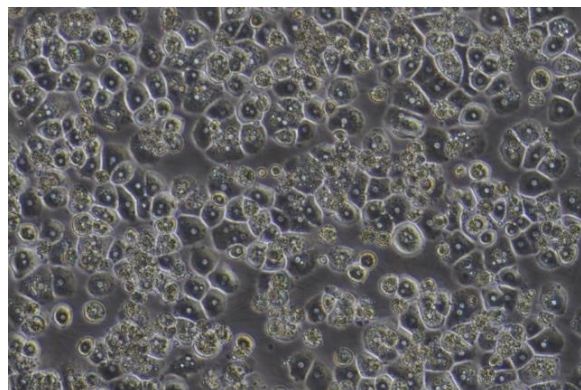
### P450 Induction

Drug Metabolizing Enzyme	Inducers (µM)	Fold Induction (Gene Expression)
CYP1A1	3-methylcholanthrene (2)	1.4
CYP1A2	3-methylcholanthrene (2)	3.96
CYP3A8	Rifampin (10)	9.8
CYP3A8	Phenobarbital (500)	7.4

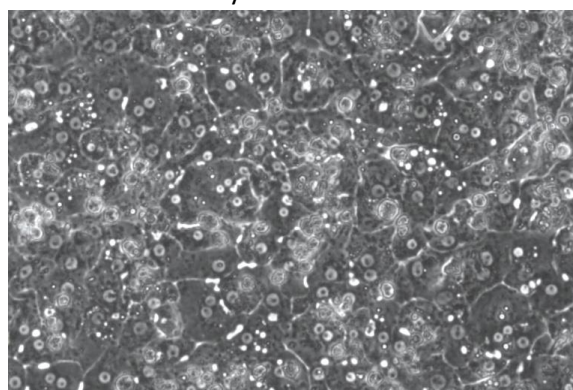
**CYP450 Induction Assessment:** 96 well cultures at a cell density of 0.5 million hepatocytes/mL (50,000 hepatocytes/well) were used in the CYP450 induction assessment. The hepatocytes were cultured as collagen-Matrigel® sandwich for 1 day followed by treatment duration of 48 hours for mRNA using known 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 Initial Attachment



Phase Contrast Day 4



**Monolayer Comments:** 10353012 has a good attachment efficiency at 80 % 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:

- In Vitro ADMET Laboratories by phone at +1 (866) 458-1094 or +1 (410) 869-9037 or email at [info@invitroadmet.com](mailto:info@invitroadmet.com)