

Certificate of Analysis

Submitted by:

Quality Control Personnel ID No.: 0016
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Applied Biological Materials Inc.

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 Richmond, BC, CANADA
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Product Description

Product Name:	Enhanced Primary Human Hepatocytes – 5 Million
Cat. Number:	T5996
Lot Number:	10-13
Quantity:	1 vial (Cryopreserved)
Donor Information:	Female, 48 years old, Caucasian
Evaluation Medium:	TM103
Serology:	CMV (-), HIV (-), HBV (-), HCV (-)
Hepatic Markers via Immunofluorescence Staining:	AAT (+), AFP (-), CK8 (+), CK18 (+), HSA (+)
Hepatic Markers via Periodic Acid-Schiff (PAS) Staining:	Glycogen Storage (+)
CYP450 Activities and Induction:	HPLC Method
Viability:	>70%
Cell Count:	5.0 x 10 ⁶ cells/ ml
Seeding Density:	10,000 cells/cm ²

**Using abm's standardized culture system and procedures; the stated value may vary depending on end user's culture conditions.*

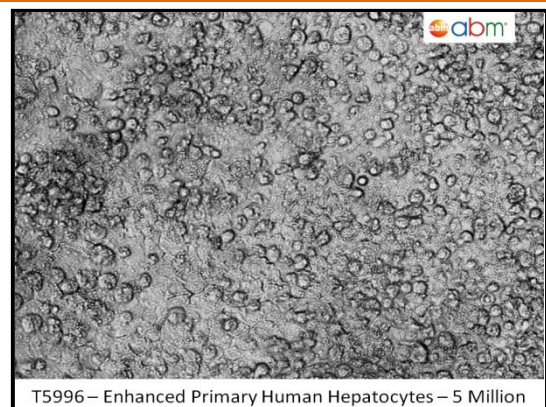
Microbial Test Results:

	Detection Method	Specification Range	Results
Fungal	Direct Culture	Negative	Pass
Bacterial	Direct Culture	Negative	Pass
Mycoplasma	PCR	Negative	Pass

Approved by: 

Personnel ID No.: 0016

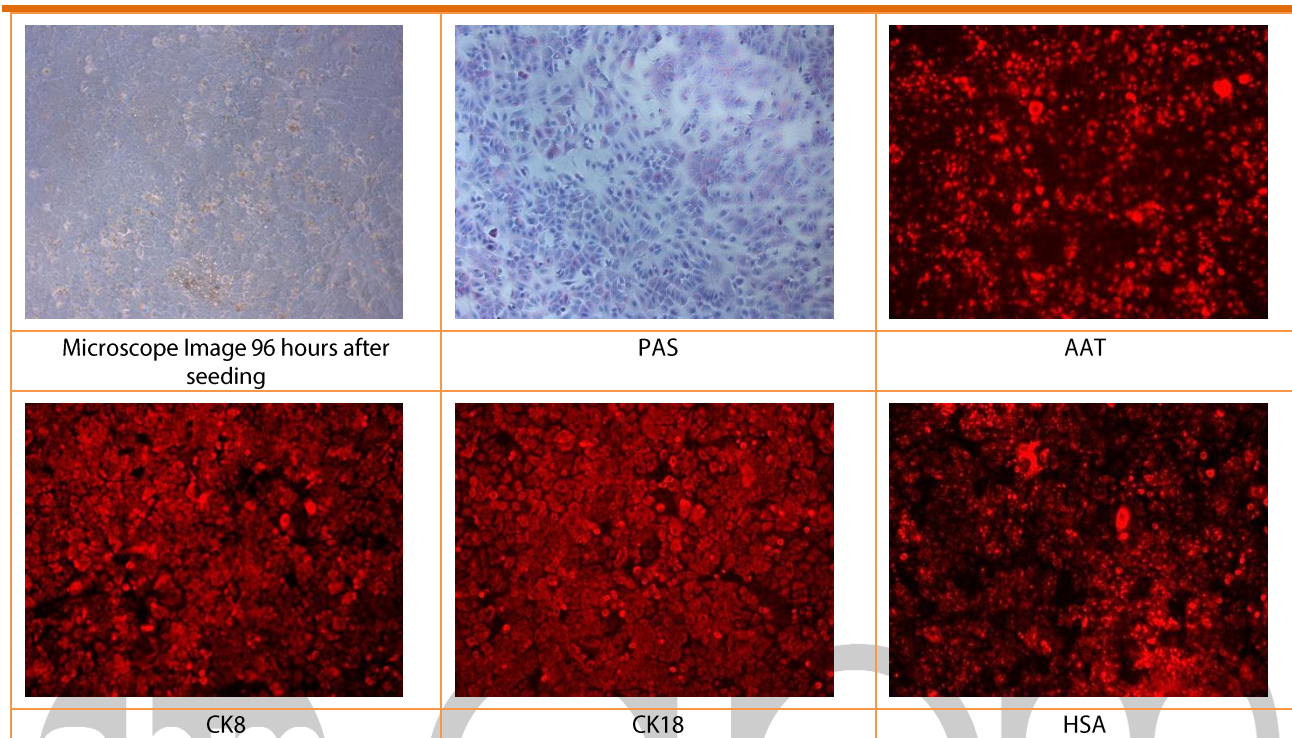
Date: June 16th, 2017



T5996 – Enhanced Primary Human Hepatocytes – 5 Million

This product is for research use only and is not intended for therapeutic or diagnostic applications.
 Please contact a technical service representative for more information.

Hepatic Markers



CYP450 Activities and Induction Results

Basal CYP450 Activities	Method	Results
CYP1A2 [pmol/min/mg]	HPLC (Phenacetin <i>O</i> -deethylation)	3.3
CYP2B6 [pmol/min/mg]	HPLC (Bupropion hydroxylation)	40.3
CYP2C9 [pmol/min/mg]	HPLC (Tolbutamide 4-hydroxylation)	91.8
CYP3A4 [pmol/min/mg]	HPLC (Testosterone 6 β -hydroxylation)	21.4

CYP450 Induction Response	Method	Results
CYP1A2 [fold]	HPLC (Phenacetin <i>O</i> -deethylation; Prototypical Inducer: 50 μ M Omeprazole)	7.3
CYP2B6 [fold]	HPLC (Bupropion hydroxylation; Prototypical Inducer: 2mM Phenobarbitone)	5.1
CYP2C9 [fold]	HPLC (Tolbutamide 4-hydroxylation; Prototypical Inducer: 20 μ M Rifampin)	2.8
CYP3A4 [fold]	HPLC (Testosterone 6 β -hydroxylation; Prototypical Inducer: 20 μ M Rifampin)	8.2