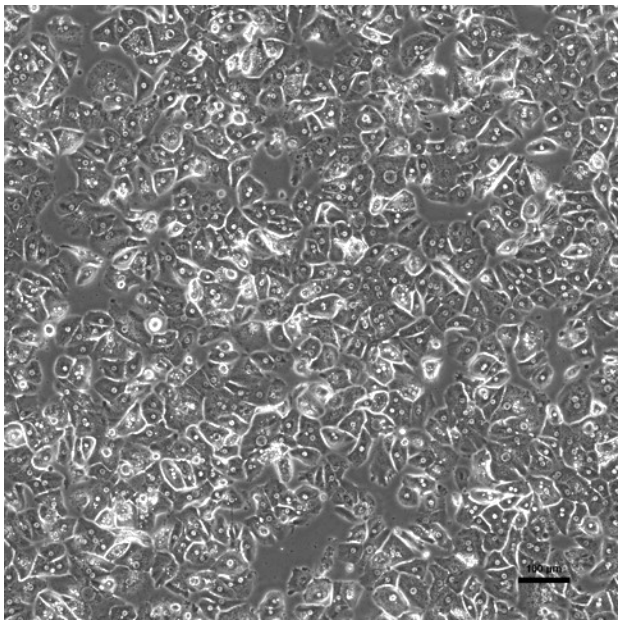
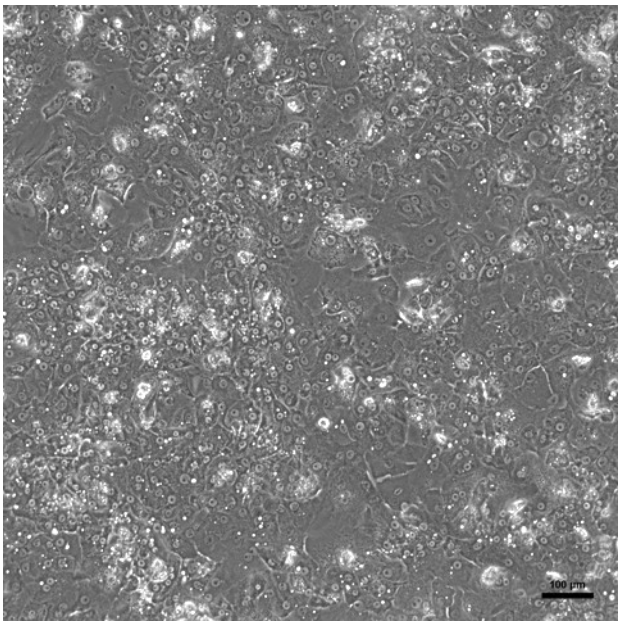
PRIMACYT
Cell Culture Technology

HHCP-I Cryopreserved Plateable Human Hepatocytes for Induction Assays **Cell Specification – Certificate of Analysis (CoA)**	
Lot HH140704	Batch Release: Sept 28, 2020

Species: Human	Gender: male Age: 68 years Size: 168 cm Weight: 95 kg Non-smoker
Serology: HAV, HBV, HCV, HIV 1/2: negative	Diagnosis: CCC (Cholangiocellular carcinoma)
Medical History: Diabetes, Hypertension	Therapy: liver resection
Medication: Metformin, Bisoprolol, Atorvastatin, Omeprazol, Enoxaparin, Tilidin, Sympal	
Cryopreservation: Date: July 04, 2014 Amount per vial: 9.08 x 10^6 cells	**Thawing:** n=2 Post-thaw viability: 84.2 ± 7.0 % Post-thaw yield per vial: 3.7 ± 1.0 x 10^6 cells Recovery: 41 ± 11 %
Phase contrast on day 1 after thawing (24well plate) 	Phase contrast on day 3 after thawing (24well plate) 

Viability test on orbital shaker (Eppendorf Thermomixer C, 1000 rpm at 37 °C with 0.5 x 10^6 cells in 0.5 ml HPM-Cryo):

Time (h)	0	1	2	3	4	5
Viability (%)	89.1	72.7	76.7	75.6	68.7	72.4

Recommended seeding density on collagen-coated plates:
24well plate – 500,000 cells/well
Use Corning collagen coated plates.
Culture in Human Hepatocyte Maintenance Medium (HHMM).

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CYP P450 activity in culture after thawing: Ethoxyresorufin-O-deethylation: Induction with 25 µM β-naphthoflavone	pmol/ (mg x min) 17.6 ± 10.6	x-fold induction 3.0
Note: Yield, viability, recovery and activity assays were performed at PRIMACYT using PRIMACYT's manual for thawing, plating and culture of primary cryopreserved hepatocytes. **Store at -150 °C or in the vapour phase of LN_2** This product should be considered as potential biohazard. Only intended for *in vitro* use.		
Issued by: A. Ullrich	Verified by: C. Garve	