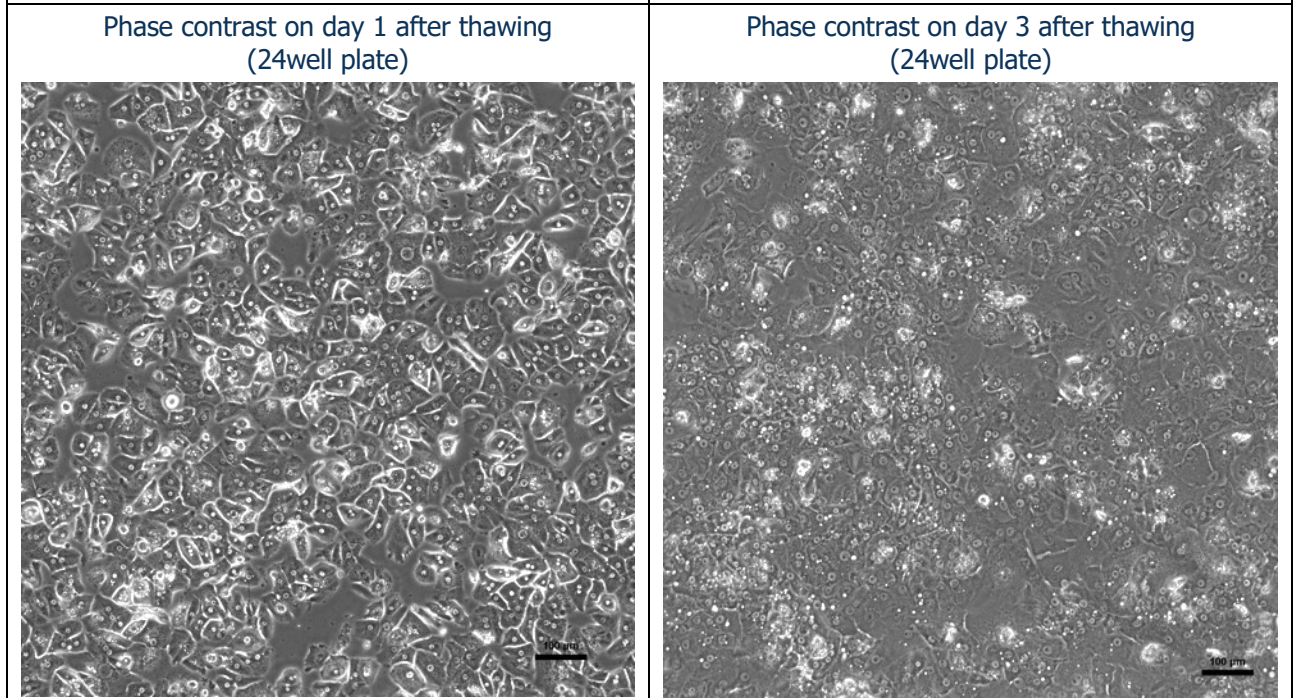


**HHCP-I Cryopreserved Plateable Human Hepatocytes for Induction Assays**  
**Cell Specification – Certificate of Analysis (CoA)**

Lot HH140704	Batch Release: Sept 28, 2020
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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	
<b>Cryopreservation:</b> Date: July 04, 2014 Amount per vial: 9.08 x 10 <sup>6</sup> cells	<b>Thawing:</b> n=2 Post-thaw viability: 84.2 ± 7.0 % Post-thaw yield per vial: 3.7 ± 1.0 x 10 <sup>6</sup> cells Recovery: 41 ± 11 %



Viability test on orbital shaker (Eppendorf Thermomixer C, 1000 rpm at 37 °C with 0.5 x 10<sup>6</sup> 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).

CYP P450 activity in culture after thawing: Ethoxyresorufin-O-deethylation: Induction with 25 $\mu$ M $\beta$ -naphthoflavone	pmol/ (mg x min)  17.6 $\pm$ 10.6	x-fold induction  3.0
<p>Note: Yield, viability, recovery and activity assays were performed at PRIMACYT using PRIMACYT's manual for thawing, plating and culture of primary cryopreserved hepatocytes.</p> <p><b>Store at -150 °C or in the vapour phase of LN<sub>2</sub></b></p> <p>This product should be considered as potential biohazard. Only intended for <i>in vitro</i> use.</p>		
Issued by: A. Ullrich	Verified by: C. Garve	