

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

Lot HH110930

Batch Release: July 26, 2023

**Donor data**

Species: Human

Gender: male

Age: 4 weeks

Diagnosis: Enzyme defect

**Cryopreservation and Thawing**

**Cryopreservation:**

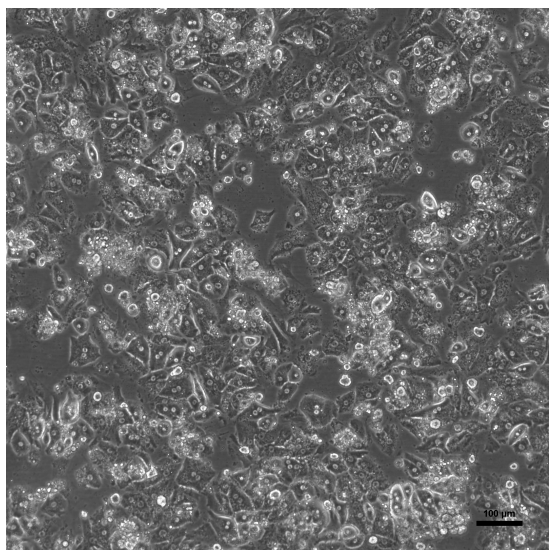
Date: Sep 30, 2011  
Amount per vial:  $10.0 \times 10^6$  cells

**Thawing:**

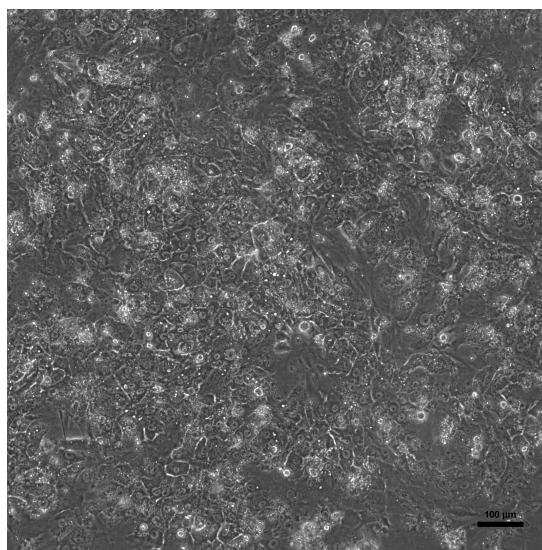
Post-thaw viability: 73 %  
Post-thaw yield per vial:  $5.7 \times 10^6$  cells  
Recovery: 57 %

**2D culture**

Phase contrast on day 1 after thawing  
(24well plate)



Phase contrast on day 3 after thawing  
(24well plate)



Recommended seeding density on collagen-coated plates: 24well plate – 500,000 cells/well // 96well plate – 90,000 cells/well. Culture in Human Hepatocyte Maintenance Medium (HHMM).

CYP P450 activity in 2D culture after thawing: Ethoxyresorufin-O-deethylation: Induction with 25 µM β-Naphthoflavone	pmol/(mg × min) 24well: 4.6 ± 0.3 96well: 10.6 ± 1.8	X-fold induction 1.7 1.2
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### Suspension culture

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	0.5	1	1.5	2	3	4	5
Viability (%)	92.9	82.7	85.9	83.3	74.8	71.0	58.8	69.9

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<sub>2</sub>**

This product should be considered as potential biohazard. Only intended for *in vitro* use.

Issued by: M. Thiede	Verified by: K. Damrau
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