

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

Lot cPHH020725490

Batch Release: April 29, 2026

Donor data

Species: Human
Ethnicity: not stated

Gender: female
Age: 75 years
Smoker: no

Diagnosis: Colorectal liver metastasis
Medical History: Low rectal cancer, treated with neoadjuvant chemoradiotherapy and abdominoperineal resection

Therapy: Laparoscopic liver resection
Medication: B12, Mirtazapine, Zinc
Serology: negative for HBV, HCV, HIV 1/2

Cryopreservation and Thawing

Cryopreservation:

Date: July 2, 2025
Amount per vial: 10.0 x 10⁶ cells

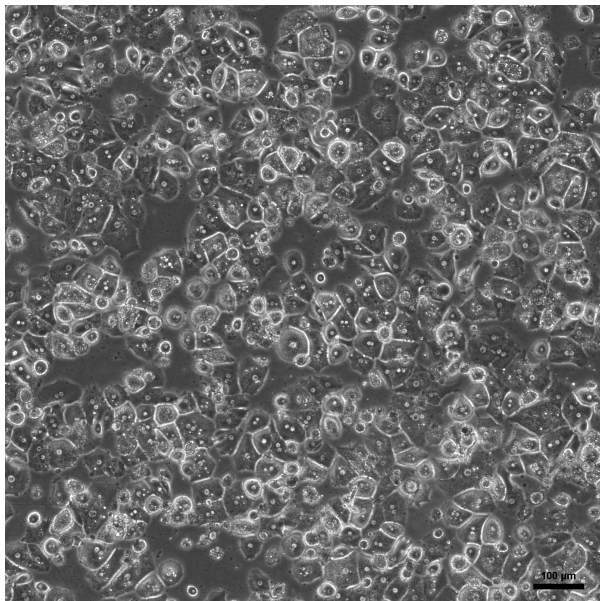
Thawing: n=1

Post-thaw viability: 91.4 %
Post-thaw yield per vial: 5.8 x 10⁶ cells
Recovery: 58 %

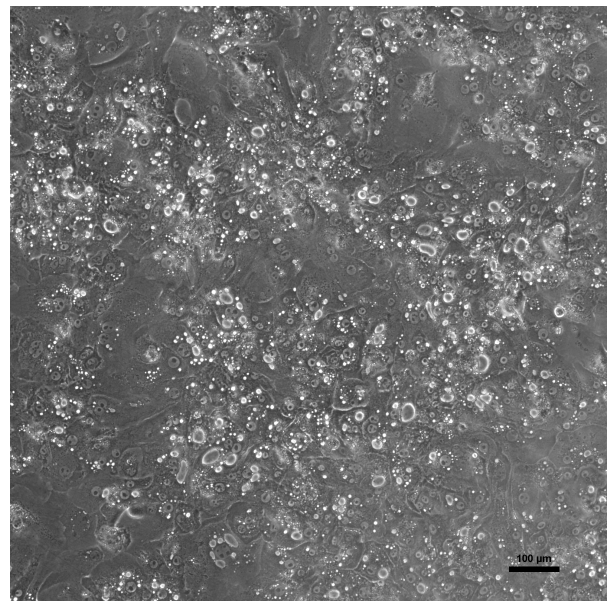
Only one spin required. No washing step.

2D culture

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



Phase contrast on day 4 after thawing
(24well plate)



Recommended seeding density on collagen-coated plates:

24well plate – 400,000 cells/well,

Culture in Human Hepatocyte Maintenance Medium (HHMM).

Note: Gently shake the plate (N/S-E/W) every 30 minutes for 2 hours after plating (only 24well plate and bigger wells). This step has a positive effect on the uniform plating.

CYP P450 activity in 2D culture after thawing: Ethoxyresorufin-O-deethylation: Induction with 25 µM β-Naphthoflavone for 3 d	pmol/(mg × min) 24well: 11.1 ± 0.03	X-fold induction 2.3
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Suspension culture

Viability test on orbital shaker (Eppendorf Thermomixer C, 1000 rpm at 37 °C with 0.5 x 10⁶ cells in 0.5 mL HPM-Cryo):

Time (h)	0	1	2	3	4	5
Viability (%)	91.4	88.8	93.0	90.7	90.0	90.1

Note: Yield, viability, recovery and activity assays were performed at PRIMACYT using PRIMACYT's manual for thawing, plating and culture of primary cryopreserved hepatocytes.

Note for thawing process: Only one spin at 100 x g, 10 min., 20 °C is required. No washing step needed.

Store at -150 °C or in the vapour phase of LN₂

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

Issued by: A. Ullrich

Verified by: T. Krimmling