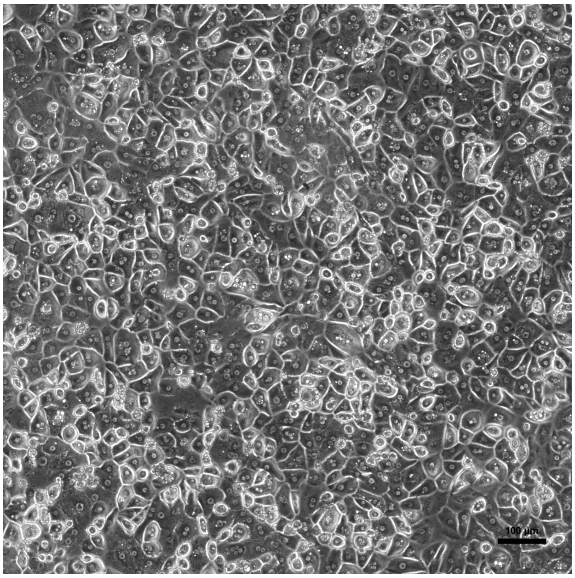
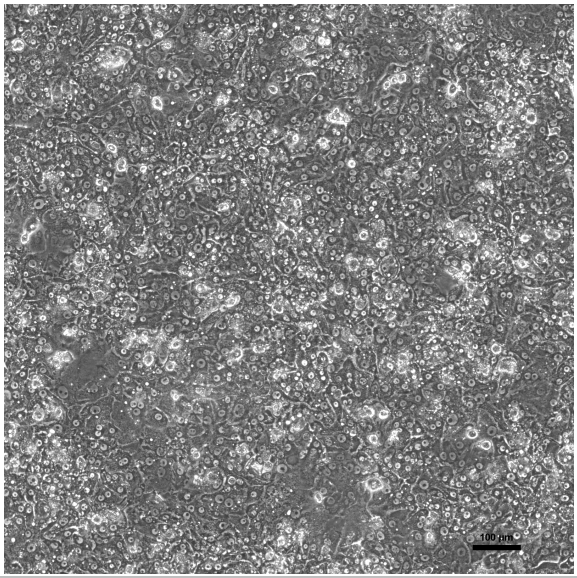
PRIMACYT
Cell Culture Technology

HHCP-I-3D Human Hepatocytes Cryopreserved Plateable for Induction assays and for 3D culture **Cell Specification – Certificate of Analysis (CoA)**	
Lot HH250124	Batch Release: May 30, 2025

Donor data	
Species: Human	Gender: male Age: 74 years
Diagnosis: Rectum carcinoma with liver metastasis Medical History: Hypertension Non-smoker	Therapy: Hemihepatectomy right Medication: Ramipril, Allopurinol Serology: HAV, HBV, HCV, HIV 1/2: negative

Cryopreservation and Thawing	
Cryopreservation: Date: Jan 24, 2025 Amount per vial: 7.98 x 10^6 cells	**Thawing:** n=1 Post-thaw viability: 91.4 % Post-thaw yield per vial: 4.7 x 10^6 cells Recovery: 59 %

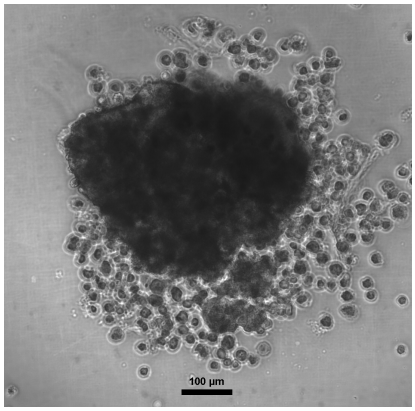
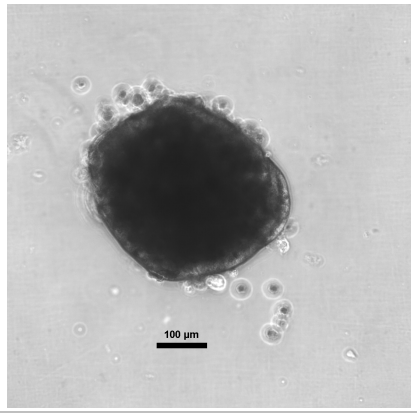
2D culture	
Phase contrast on day 1 after thawing (24well plate)	Phase contrast on day 3 after thawing (24well plate)
	
Recommended seeding density on Corning or Greiner collagen-coated plates: 24well plate – 300,000 cells/well // 96well plate – 80,000 cells/well. Culture in Human Hepatocyte Maintenance Medium (HHMM).	

E-mail: info@primacyt.de, Tel.: +49 (0) 385-3993-600, Fax: +49 (0) 385-3993-602

CYP P450 activity in 2D culture after thawing:	pmol/(mg × min)	X-fold induction
Ethoxyresorufin-O-deethylation:	24well: 11.7 ± 0.6	3.5
Induction with 25 µM ß-Naphthoflavone	96well: 22.8 ± 2.7	4.9

3D culture

Cells seeded in 96well ULA round bottom plates (FaCellitate), 2,500 cells/well

day 4	day 8
	

Suspension culture

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 (%)	91.4	77.6	79.9	86.1	83.1	85.5

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: K. Damrau