

BHCP-I-3D Beagle Hepatocytes Cryopreserved Plateable for Induction assays and for 3D culture
Cell Specification – Certificate of Analysis (CoA)

Lot BH181205

Batch Release: July 24, 2020

Update: Oct 28, 2024

Donor data

Species: Beagle

Gender: male

Age: 11 months

Cryopreservation and Thawing

Cryopreservation:

Date: Dec 5, 2018

Amount per vial: 10.0×10^6 cells

Thawing: n=2

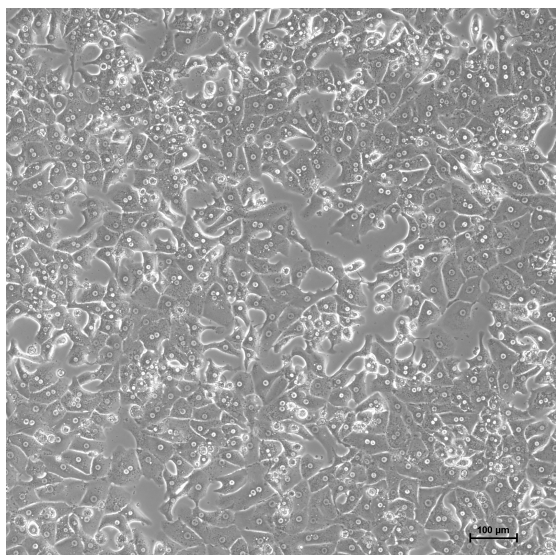
Post-thaw viability: 88.4 ± 1.2 %

Post-thaw yield per vial: $6.0 \pm 0.2 \times 10^6$ cells

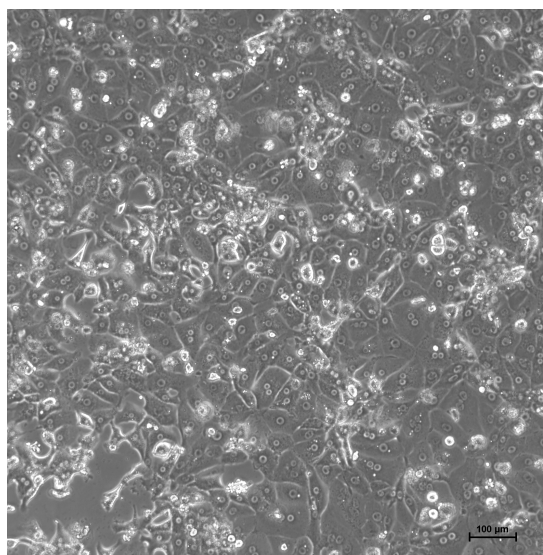
Recovery: 60 ± 2 %

2D culture

Phase contrast on day 2 after thawing
(24well plate)



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



Recommended seeding density on Corning collagen-coated plates:
24well plate – 400,000 cells/well // 96well plate – 90,000 cells/well.
Culture in Human Hepatocyte Maintenance Medium (HHMM).

CYP P450 activity in 2D culture after thawing:

pmol/(mg × min)

X-fold induction

Ethoxyresorufin-O-deethylation:

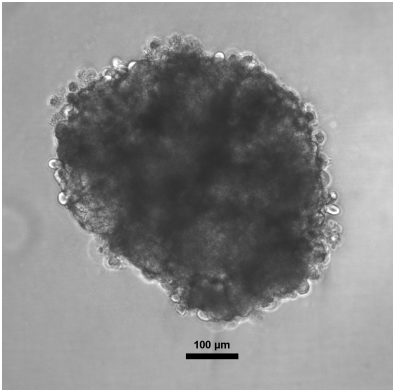
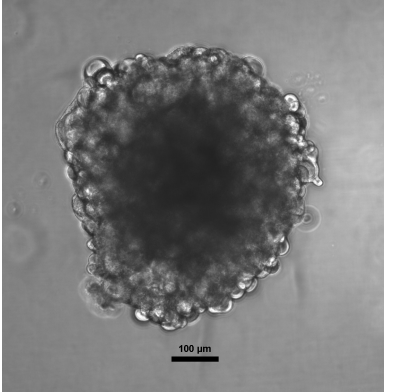
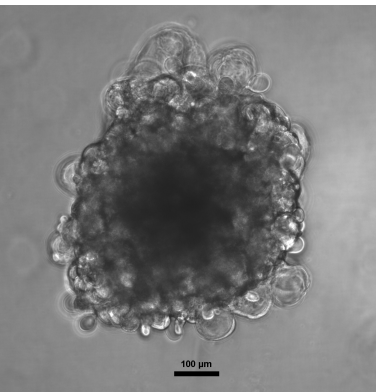
24well: 94.8 ± 8.8

11.1

Induction with 25 µM β-Naphthoflavone

96well: 410.4 ± 225.1

5.4

3D culture		
Cells seeded in 96well ULA round bottom plates (FaCellitate), 2,500 cells/well		
day 3	day 7	day 10
		

Suspension culture			
Viability test on orbital shaker (Eppendorf Thermomixer C, 1000 rpm at 37 °C with 0.5×10^6 cells in 0.5 ml HPM-Cryo):			
Time (h)	0	1	2
Viability (%)	89.6	84.8	83.3
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 LN₂			
This product should be considered as potential biohazard. Only intended for <i>in vitro</i> use.			
Issued by: A. Ullrich		Verified by: K. Damrau	