

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

Lot CH240516

Batch Release: May 15, 2025

Donor data

Species: *Macaca fascicularis*

Gender: female

Age: 7 years 3 months

Cryopreservation and Thawing

Cryopreservation:

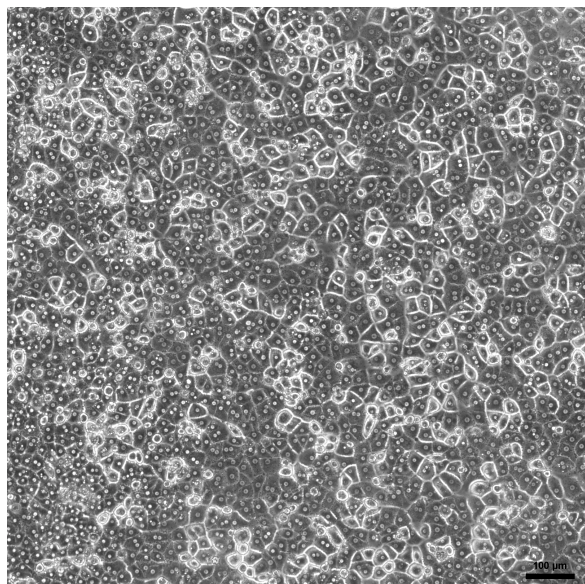
Date: May 16, 2024
Amount per vial: 10.0×10^6 cells

Thawing: n=2

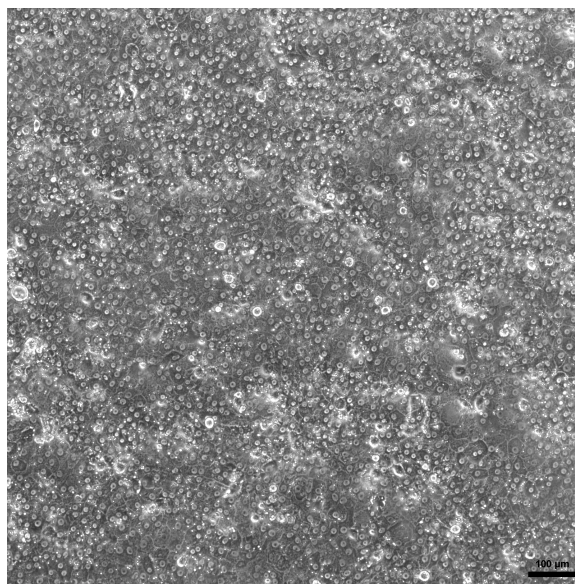
Post-thaw viability: $96.3 \pm 0.6 \%$
Post-thaw yield per vial: $7.3 \times 10^6 \pm 1.2$ cells
Recovery: $73.2 \pm 11.6 \%$

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 – 400,000 cells/well // 96well plate – 80,000 cells/well.

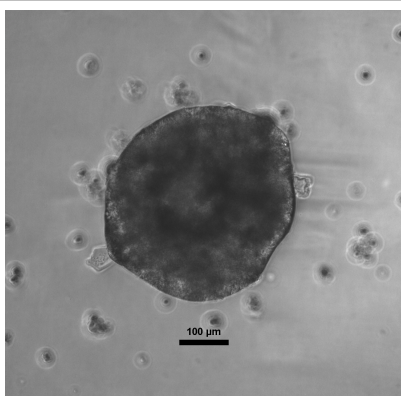
Culture in Human Hepatocyte Maintenance Medium (HHMM).

CYP P450 activity in 2D culture after thawing: Ethoxyresorufin-O-deethylation: Induction with 25 µM β-Naphthoflavone	pmol/(mg × min) 24well: 42.9 ± 3.6 96well: 89.9 ± 25.5	X-fold induction 3.4 4.7
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3D culture

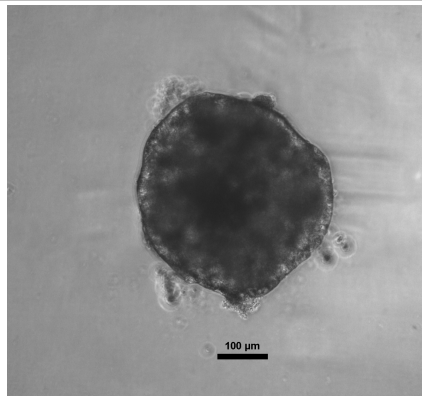
Cells seeded in 96well ULA round bottom plates (FaCellitate), 2,500 cells/well

day 8



scale bar 100 µm

day 10



scale bar 100 µm

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 (%)	96.3 ± 0.4	90.8 ± 1.2	92.3 ± 3.0	92.8 ± 1.8	92.6 ± 3.4	90.4 ± 2.8

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 *in vitro* use.

Issued by: A. Alkufairi

Verified by: T. Krimmling