

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

Lot LPH250621-1

Batch Release: July 22, 2025

Donor data

Species: Landrace Pig

Gender: male

Age: 1 Month

Cryopreservation and Thawing

Cryopreservation:

Date: Juni 21, 2025
Amount per vial: 14.1×10^6 cells

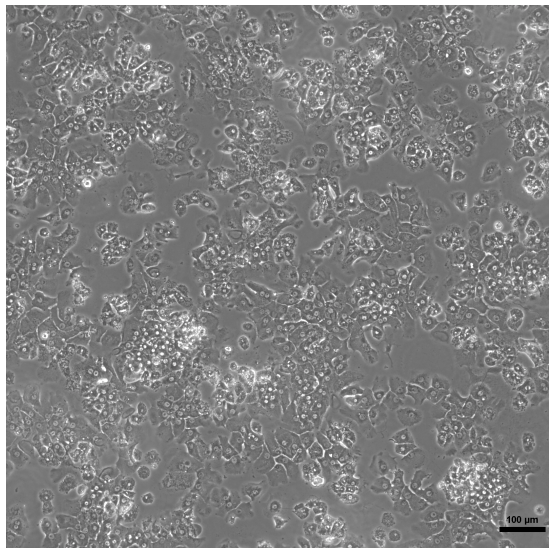
Thawing: n=1

Post-thaw viability: 96.8 %
Post-thaw yield per vial: 16.4×10^6 cells
Recovery: 116.3 %

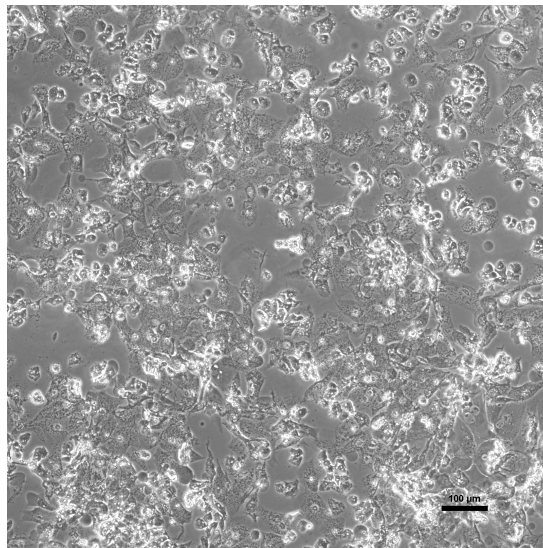
Only one spin required. No washing step.

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 – 300,000 cells/well // 96well plate – 50,000 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: 20.7 ± 2.3

2.8

Induction with 25 µM β-Naphthoflavone

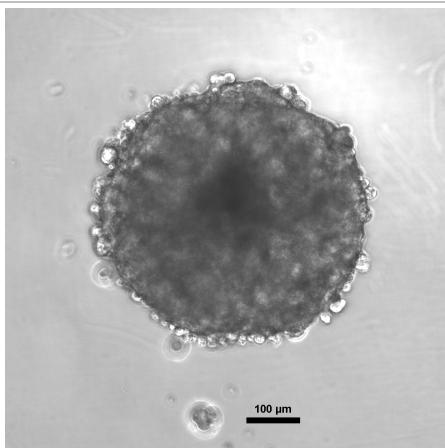
96well: 38.8 ± 2.8

3.3

3D culture

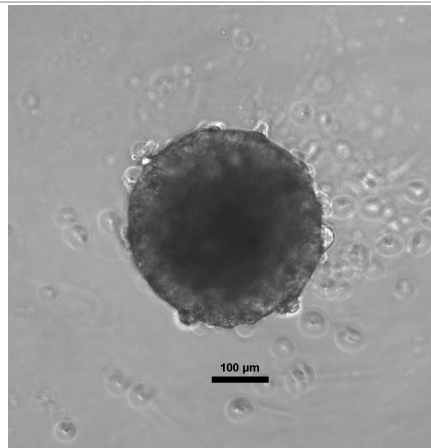
Cells seeded in 96well ULA round bottom plates (FaCellitate), 2,500 cells/well

day 4



scale bar 100 µm

day 14



scale bar 100 µm

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	3
Viability (%)	96.8	85.7	82.6	87.4

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. Alkufairi

Verified by: T. Krimmling