

BL6-MHCP-I-3D Mouse Hepatocytes Cryopreserved Plateable for Induction Assays and for 3D culture

Cell Specification – Certificate of Analysis (CoA)

Lot MH240111-1 (Pool of 4)

Batch Release: February 05, 2024

Donor data

Species: Mouse (*Mus musculus*)
Strain: Black 6 (C57BL6JR)

Gender: 4 males
Age: approx. 6 months

Cryopreservation and Thawing

Cryopreservation:

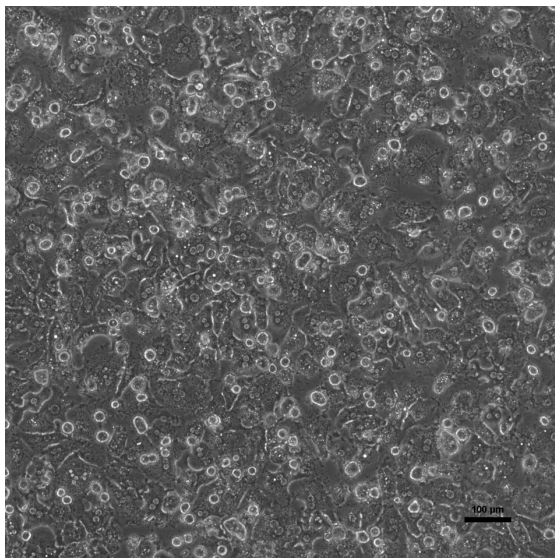
Date: Jan 11, 2024
Amount per vial: 6.59×10^6 cells

Thawing: n=1

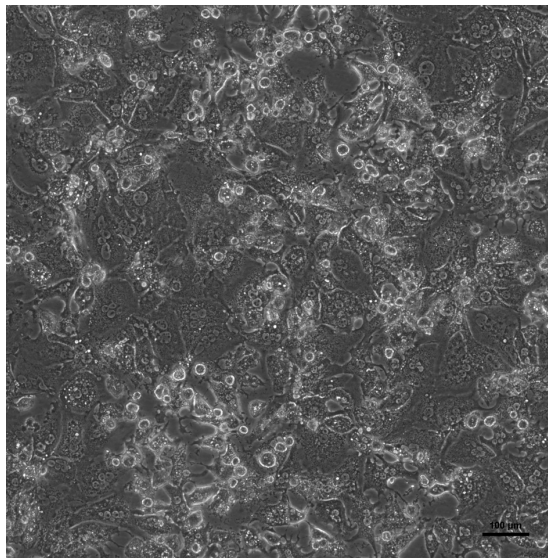
Post-thaw viability: 86.3 %
Post-thaw yield per vial: 3.46×10^6 cells
Recovery: 52.5 %

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 – 120,000 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: 9.3 ± 0.2

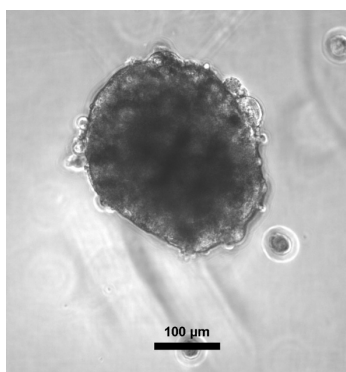
X-fold induction

6.2

3D culture

Cells seeded in 96well ULA round bottom plates (FaCellitate), 2,500 cells/well.
Culture in 3D-Hepatocyte Maintenance Medium (3D-HMM).

day 7



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	0.5	1	1.5	2	3	4	5
Viability (%)	86.3	75.8	81.3	78.7	77.7	71.7	66.1	65.6

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.

Detailed animal information and husbandry conditions	
Species	Mouse (Mus musculus)
Strain	Black 6 (C57BL6JR)
Vendor	Janvier Labs Saint Berthevin Cedex, France
Food	Altromin Maintenance diet for rats/mice (ad libitum), Altromin, Lage, FRG
Water	ad libitum
Light/Dark cycle	regulated day/night cycle using artificial and natural light, 10-14 hours light daily
Temperature	20-24 °C
Humidity	40-70 %
Bedding	Hugro hemp bedding, Saerbeck, FRG
Cage	Tecniplast Eurostandard Type III and Type IV incl. behavioural enrichments for the animals
<p>Animals were housed under veterinary control and allowed to acclimate ≥ 7 days before use. Animal housing permits according to §11 Abs. 1 TSchG, dated March 22, 2022 under supervision of Veterinary Office of Landkreis Ludwigslust/Parchim, FRG. Hepatocytes were obtained from a non-infectious, non-contagious, healthy animal. The animal does not originate from a facility conducting work or research with animal pathogens.</p>	

Issued by: J. Schuldt	Verified by: K. Damrau
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