

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

Cell Specification – Certificate of Analysis (CoA)

Lot MH230605

Batch Release: Feb 05, 2024

Donor data

Species: Mouse (*Mus musculus*)
Strain: CD-1

Gender: male
Age: approx. 4 months

Cryopreservation and Thawing

Cryopreservation:

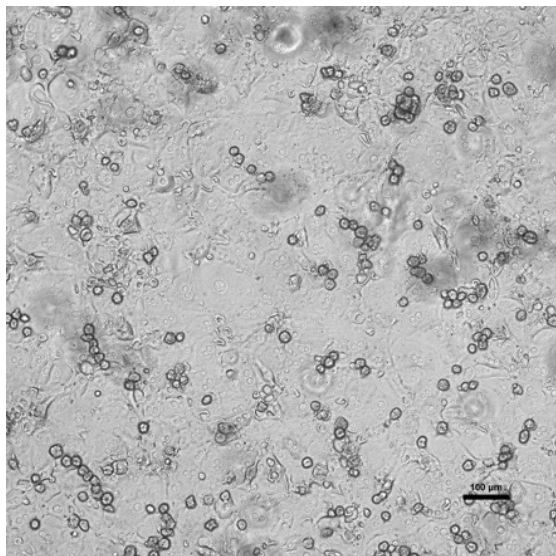
Date: Jun 05, 2023
Amount per vial: 6.7×10^6 cells

Thawing: n=1

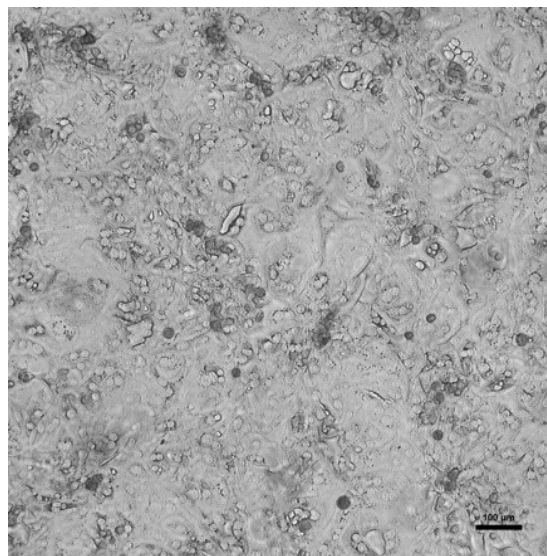
Post-thaw viability: 88.6 %
Post-thaw yield per vial: 2.73×10^6 cells
Recovery: 40.7 %

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 // 96well plate – 25,000 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:

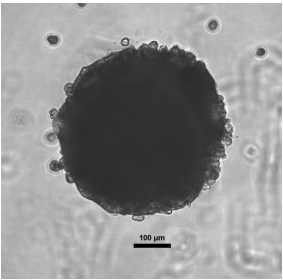
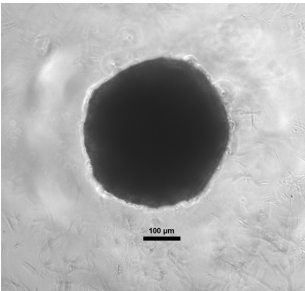
24well: 4.7 ± 0.2

2.8

Induction with 25 µM β-Naphthoflavone

96well: 39.4 ± 14.6

4.8

3D culture	
Cells seeded in 96well ULA round bottom plates (FaCellitate), 2,500 cells/well	
day 3	day 10
	
scale bar 100 µm	scale bar 100 µm

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	CD-1, IGS (International Genetic Standard)
Vendor	Charles River Germany GmbH & Co. KG, Sulzbach, FRG
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

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 20, 2017 and 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.

Issued by: A. Sattler

Verified by: K.Damrau