

MHCP-I-aged Mouse Hepatocytes Cryopreserved Plateable for Induction assays for Cell Specification – Certificate of Analysis (CoA)

Lot MH220412

Batch Release: June 05, 2023

Donor data

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

Gender: female
Age: approx. 16 months

Cryopreservation and Thawing

Cryopreservation:

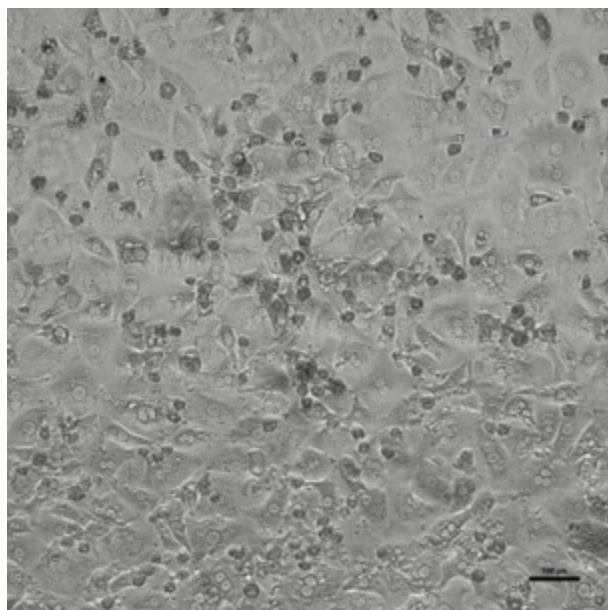
Date: April 12, 2022
Amount per vial: 6.7×10^6 cells

Thawing: n=1

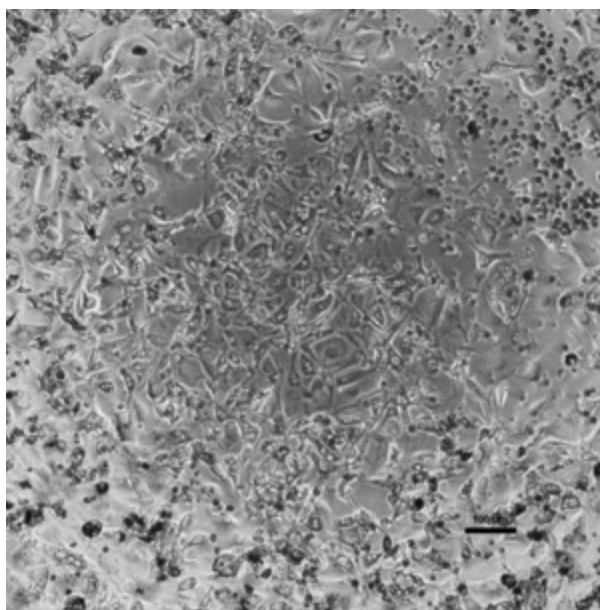
Post-thaw viability: 83 %
Post-thaw yield per vial: 2.19×10^6 cells
Recovery: 32.7 %

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: 65.51 ± 15.67	19.7
Induction with 25 μ M β -Naphthoflavone	96well: 45.55 ± 11.53	4.2

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	0.5	1	1.5	2	3	4	5
Viability (%)	83	60.5	70.8	54.8	57.5	57.5	58.0	62.2

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 (<i>Mus musculus</i>)
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	07:00-19:00 light / 19:00-07:00 dark (12 hours light/dark)
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. Alkufairi

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