

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

Lot MH240821

Batch Release: December 16, 2024

Donor data

Species: Mouse (*Mus musculus*)
Strain: Swiss CD-1 // RjOrl:SWISS

Gender: male
Age: approx. 2.5 months

Cryopreservation and Thawing

Cryopreservation:

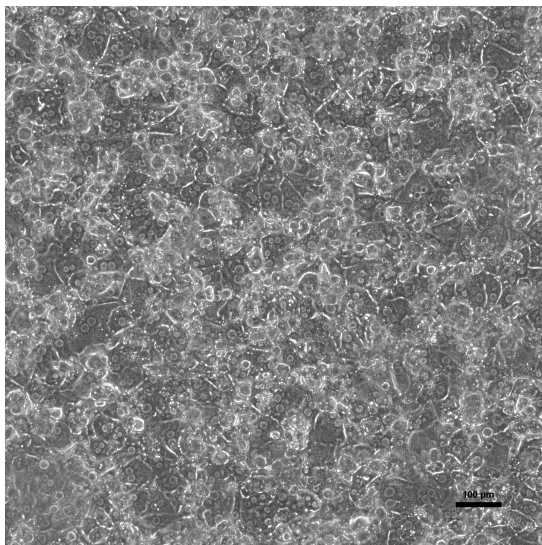
Date: Aug 21, 2024
Amount per vial: 6.75×10^6 cells

Thawing: n=2

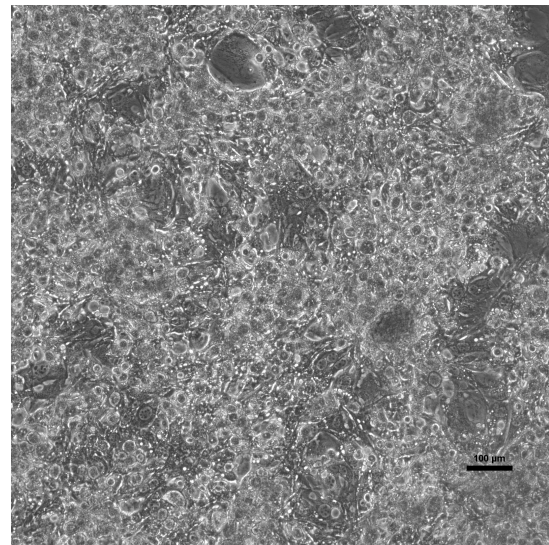
Post-thaw viability: $91.7 \pm 4.9\%$
Post-thaw yield per vial: $3.8 \pm 0.2 \times 10^6$ cells
Recovery: $56.6 \pm 3.1 \%$

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 – 160,000 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: 9.5 ± 0.7	3.6
Induction with 25 µM β-Naphthoflavone	96well: 17.4 ± 4.0	4.4

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)	0.5	1	1.5	2	3	4	5
Viability (%)	83.6	83.7 ± 0.1	76.8	78.3 ± 1.2	79.6 ± 1.0	76.2 ± 2.7	75.0 ± 2.9

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	Swiss CD-1 (RjOrl:SWISS)
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

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.

Issued by: A. Alkufairi

Verified by: T. Krimmling