

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

Lot MH250319 (Pool of 2)

Batch Release: July 17, 2025

Donor data

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

Gender: 2 females
Age: 4.5 months and 9.5 months

Cryopreservation and Thawing

Cryopreservation:

Date: March 19, 2025
Amount per vial: 6.7×10^6 cells

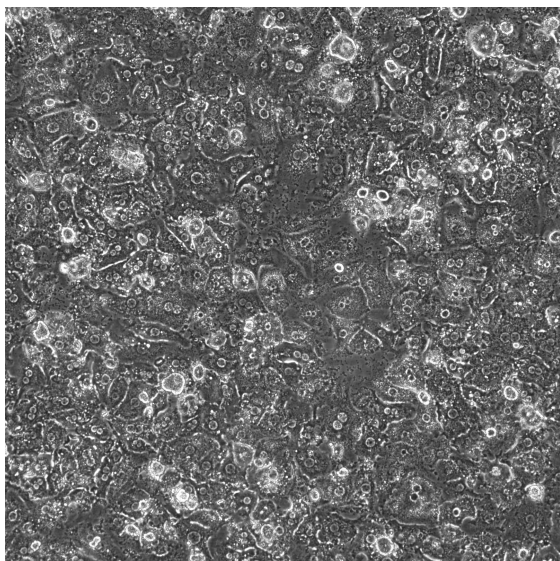
Thawing: n=1

Post-thaw viability: 88.4 %
Post-thaw yield per vial: 2.9×10^6 cells
Recovery: 43.4 %

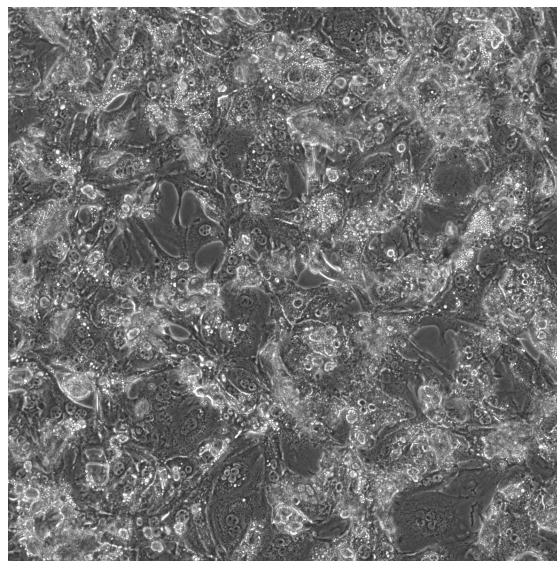
Only one spin required. No washing step.

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 – 200,000 cells/well

96well plate – 20,000 cells/well

Culture in Human Hepatocyte Maintenance Medium (HHMM).

Note: Gently shake the plate (N/S-E/W) every 30 minutes for 2 hours after plating (only 24well plate and bigger wells). This step has a positive effect on the uniform plating.

CYP P450 activity in 2D culture after thawing:	pmol/ (mg × min)	X-fold induction
Ethoxyresorufin-O-deethylation:	24well: 14.0 ± 0.6	3.0
Induction with 25 µM β-Naphthoflavone	96well: 16.2 ± 5.5	2.2

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	1	2	3
Viability (%)	88.4	63.6	66.8	55.2

Note: Yield, viability, recovery and activity assays were performed at PRIMACYT using PRIMACYT's manual for thawing, plating and culture of primary cryopreserved hepatocytes.

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.

Detailed animal information and husbandry conditions

Species	Mouse (Mus musculus)
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: K. Damrau
-------------------------	------------------------