

MHCP-I-3D-aged Mouse Hepatocytes Cryopreserved Plateable for Induction assays
Cell Specification – Certificate of Analysis (CoA)

Lot MH250708

Batch Release: July 17, 2026

Donor data

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

Gender: female
Age: approx. 13 months
Pool of 3

Cryopreservation and Thawing

Cryopreservation:

Date: July 08, 2025
Amount per vial: 6.47×10^6 cells

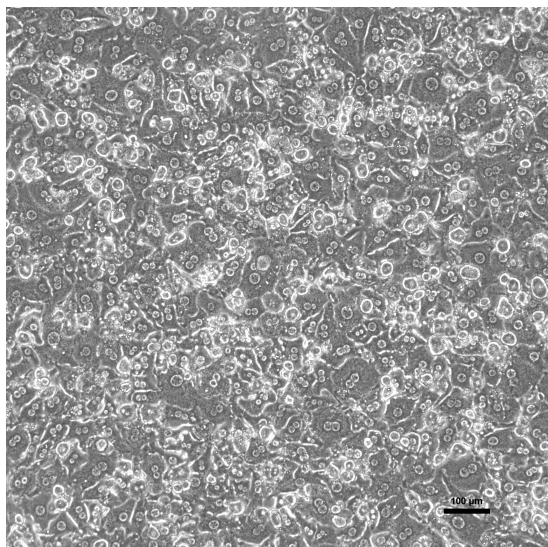
Thawing: n=1

Post-thaw viability: 92.1 %
Post-thaw yield per vial: 3.9×10^6 cells
Recovery: 61 %

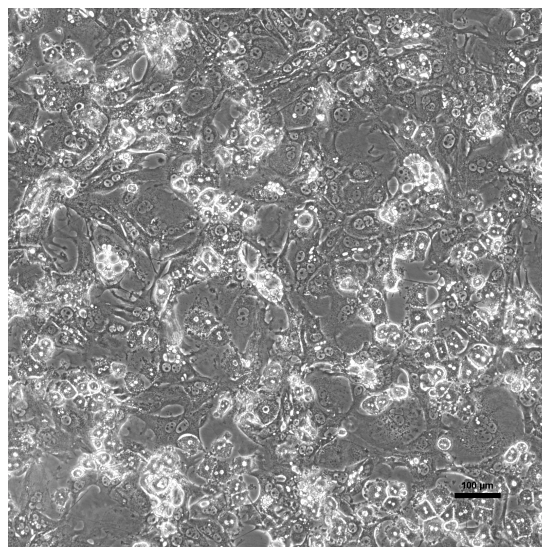
Only one spin required. No washing step.

2D culture

Phase contrast on day 1 after thawing
(24well plate)



Phase contrast on day 3 after thawing
(24well plate)



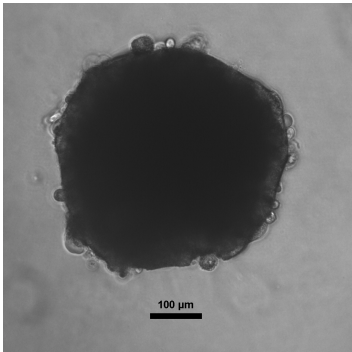
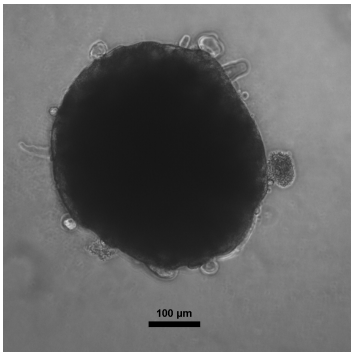
Recommended seeding density on collagen-coated plates:

24well plate – 160,000 cells/well//96well plate – 30,000 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: 9.9 ± 1.0	2.8
Induction with 25 µM β-Naphthoflavone	96well: 15.0 ± 6.5	4.6

3D culture	
Cells seeded in 96well ULA round bottom plates (FaCellitate), 2,500 cells/well	
day 8	day 10
	
scale bar 100 µm	scale bar 100 µm

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	4	5
Viability (%)	92.1	81.7	74.0	82.8	75.0	75.5

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 and November 18, 2024 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.			
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