

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

Lot MH241112 (Pool of 6)

Batch Release: February 10, 2025

**Donor data**

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

Gender: 6 females  
Age: approx. 4 and 8.5 months

**Cryopreservation and Thawing**

**Cryopreservation:**

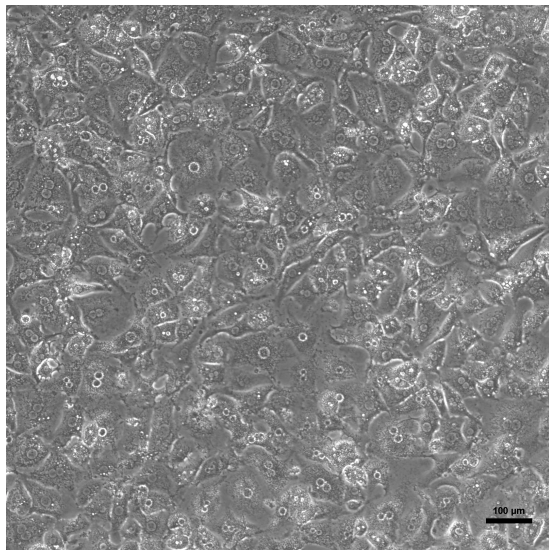
Date: Nov 12, 2024  
Amount per vial:  $6.9 \times 10^6$  cells

**Thawing:** n=1

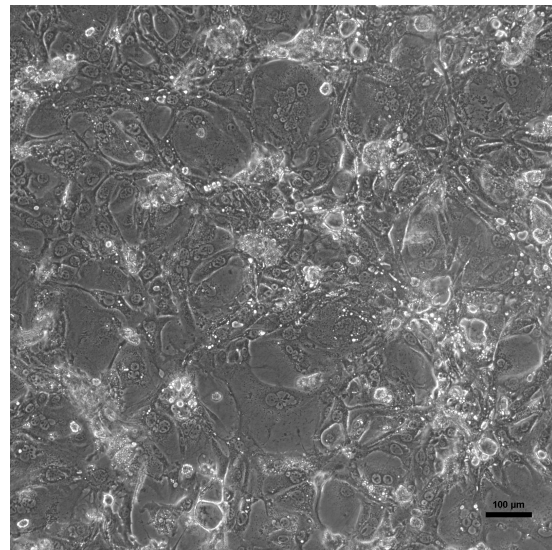
Post-thaw viability: 92.1 %  
Post-thaw yield per vial:  $3.4 \times 10^6$  cells  
Recovery: 49.3 %

**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 – 20,000 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: $13.3 \pm 0.01$	5.4
Induction with 25 µM β-Naphthoflavone	96well: $42.4 \pm 11.03$	4.9

### Suspension culture

Viability test on orbital shaker (Eppendorf Thermomixer C, 1000 rpm at 37 °C with  $0.5 \times 10^6$  cells in 0.5 ml HPM-Cryo):

Time (h)	0	1	2	3
Viability (%)	92.1	70.7	65.7	43.8

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 LN<sub>2</sub>

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  $\geq 7$  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.

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