

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

Lot MH240910 (Pool of 5)

Batch Release: December 13, 2024

**Donor data**

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

Gender: 5 males  
Age: approx. 2.5 and 3.5 months

**Cryopreservation and Thawing**

**Cryopreservation:**

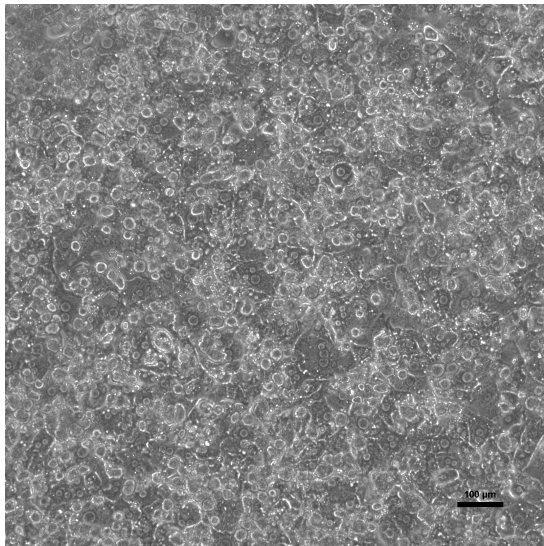
Date: Sep 10, 2024  
Amount per vial:  $6.9 \times 10^6$  cells

**Thawing:** n=2

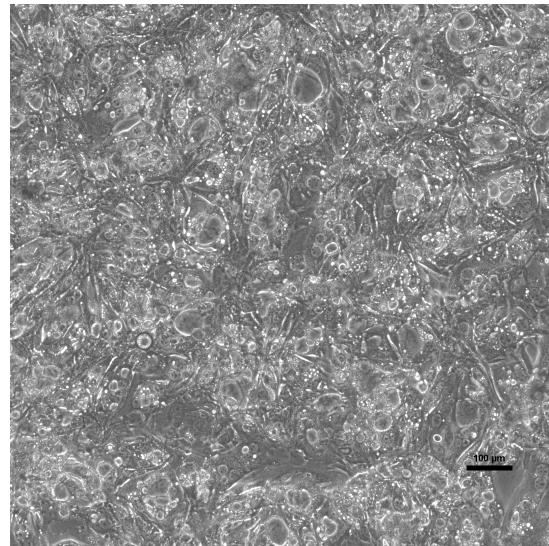
Post-thaw viability:  $86.9 \pm 0.1\%$   
Post-thaw yield per vial:  $2.3 \pm 0.1 \times 10^6$  cells  
Recovery:  $32.7 \pm 0.8 \%$

**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: $7.1 \pm 0.1$	2.0
Induction with 25 µM β-Naphthoflavone	96well: $14.6 \pm 1.7$	2.2

### 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	4	5
Viability (%)	86.9 ± 0.1	83.1 ± 1.2	79.7 ± 2.6	79.4 ± 1.5	75.2 ± 1.7	73.1 ± 1.0

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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