

# MHCP-I-3D Mouse Hepatocytes Cryopreserved Plateable for Induction assays and for 3D culture

**Cell Specification – Certificate of Analysis (CoA)** 

Lot MH240618 Batch Release: December 16, 2024

#### **Donor data**

Species: Mouse (Mus musculus) Gender: male

Strain: Swiss CD-1 // RjOrl:SWISS Age: approx. 4 months

#### **Cryopreservation and Thawing**

**Cryopreservation:** 

Date: Jun 18, 2024

Amount per vial:  $6.75 \times 10^6$  cells

**Thawing:** n=1

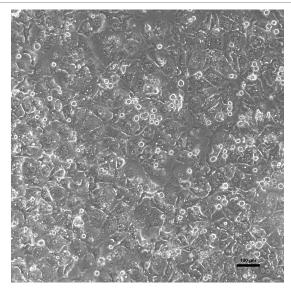
Post-thaw viability: 76.3 %

Post-thaw yield per vial: 2.06 x 10<sup>6</sup> cells

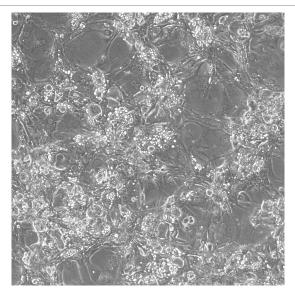
Recovery: 30.5 %

#### 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).

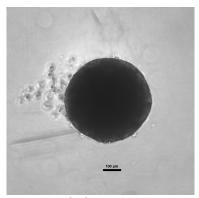
CYP P450 activity in 2D culture after thawing: pmol/ (mg  $\times$  min) X-fold induction Ethoxyresorufin-O-deethylation: 24well:  $10.5 \pm 0.3$  3.1 Induction with 25  $\mu$ M  $\beta$ -Naphthoflavone 96well:  $15.4 \pm 3.1$  3.6



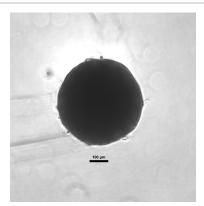
#### **3D** culture

Cells seeded in 96well ULA round bottom plates (FaCellitate), 2,500 cells/well

day 14 day 18



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 10<sup>6</sup> cells in 0.5 ml HPM-Cryo):

Time (h)	0	1	2	3	4	5
Viability (%)	76.3	58.8	61.6	50.5	49.7	47.6

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 (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  $\geq$  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.

ued by: A. Alkufairi	Verified by: T. Krimmling
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