

MHCP-I-3D Mouse Hepatocytes Cryopreserved Plateable for Induction assays and for 3D culture Cell Specification – Certificate of Analysis (CoA)	
Lot MH210907	Batch Release: May 08, 2024

Donor data	
Species: Mouse (Mus musculus)	Gender: male
Strain: CD-1	Age: approx. 2 months

Cryopreservation and Thawing		
Cryopreservation	):	Thawing: n=2
Date:	Sep. 07, 2021	Post-thaw viability: 89.5 $\pm$ 4.9 %
Amount per vial:	6.19 x 10 <sup>6</sup> cells	Post-thaw yield per vial: 3.0 $\pm$ 0.3 x 10 <sup>6</sup> cells
		Recovery: $48.8 \pm 4.5$ %

2D culture		
Phase contrast on day 1 after thawing (24well plate)	Phase contrast on day 3 after thawing (24well plate)	

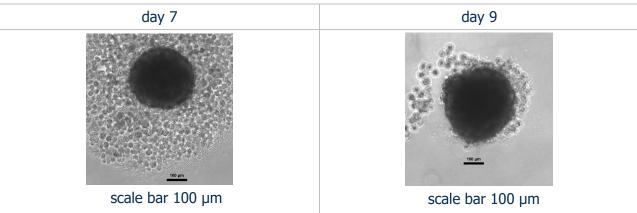
Recommended seeding density on collagen-coated plates: 24well plate – 120,000 cells/well Culture in Human Hepatocyte Maintenance Medium (HHMM).			
CYP P450 activity in 2D culture after thawing:pmol/(mg × min)X-fold inductionEthoxyresorufin-O-deethylation: $24$ well: $7.9 \pm 0.1$ $3.7$ Induction with 25 µM β-Naphthoflavone $3.7$			

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## **3D culture**

Cells seeded in 96well ULA round bottom plates (FaCellitate), 2,500 cells/well Culture in 3D- Hepatocyte Maintenance Medium (3D-HMM)



## **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 (%)	89.5 ± 4.9	72.2 ± 48.4	82.7	73.2	75.0	76.2

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

## 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	CD-1, IGS (International Genetic Standard)	
Vendor	Charles River Germany GmbH & Co. KG, Sulzbach, FRG	
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.		

Verified by: K. Damrau