

**MHCP Mouse Hepatocytes Cryopreserved Plateable
Cell Specification – Certificate of Analysis (CoA)**

Lot MH05252024 (Pool of 20)

Batch Release: April 16, 2026

Donor data

Species: Mouse (*mus musculus*)
Strain: CD-1

Gender: male

Cryopreservation and Thawing

Thawing: n=2

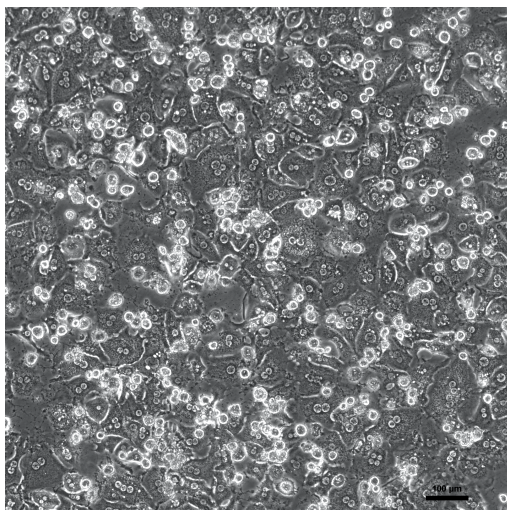
Post-thaw viability: $89.7 \pm 1.8 \%$

Post-thaw yield per vial: $6.1 \pm 0.1 \times 10^6$ cells

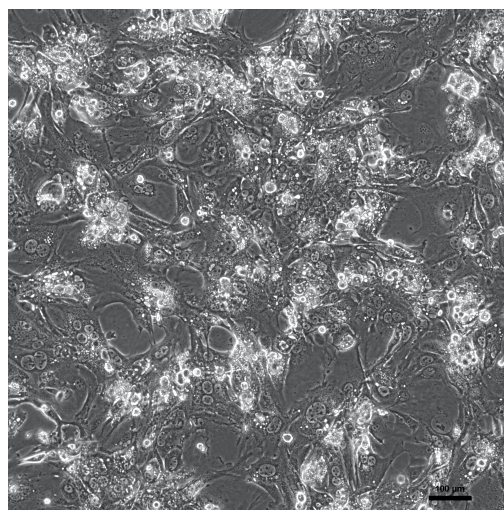
Recovery: 47 %

2D culture

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



Phase contrast on day 4 after thawing
(24well plate)



Recommended seeding density on Corning collagen-coated plates:

24well plate – 160,000 cells/well

Culture in Human Hepatocyte Maintenance Medium (HHMM).

CYP P450 activity in 2D culture after thawing:

Ethoxyresorufin-O-deethylation:

Induction with $18 \mu\text{M}$ β -Naphthoflavone

pmol/ (mg $\times$ min)

24well: 11.9 ± 0.1

X-fold induction

1.9

Suspension culture

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

Time (h)	0	1	2	3
Viability (%)	91.5	63.9	57.8	54.7

Phase I and Phase II metabolism: Determination of enzymatic activities in suspension

Assay	Enzyme activities (pmol/min* 10^6 cells) mean $\pm$ SD
7-Ethoxycoumarin-deethylase	747 $\pm$ 15
UDP-Glucuronosyltransferase	788 $\pm$ 22
Sulfotransferase	83.4 $\pm$ 1.1

After incubation of the thawed cells in suspension at 37 °C for 30 min, the metabolites produced by phase I and phase II enzymes were quantified by LC-MS/MS.

Note: Yield and viability 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 LN₂

This product should be considered as potential biohazard. Only intended for *in vitro* use.

Issued by: A. Ullrich