

WH-RHCP-I-3D Rat Hepatocytes Cryopreserved Plateable for Induction assays and for 3D culture
Cell Specification – Certificate of Analysis (CoA)

Lot RH260421

Batch Release: September 21, 2026

Donor data

Species: *Rattus norvegicus* forma domestica
Strain: Wistar:Han IGS rat // Crl:Wi(Han)

Gender: male
Age: approx. 3.0 months

Cryopreservation and Thawing

Cryopreservation:

Date: Apr 21, 2026
Amount per vial: 10.0×10^6 cells

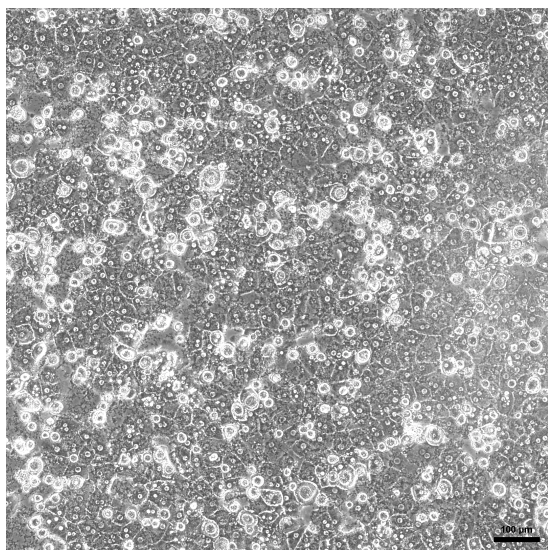
Thawing: n=1

Post-thaw viability: 78.3 %
Post-thaw yield per vial: 5.85×10^6 cells
Recovery: 58.5 %

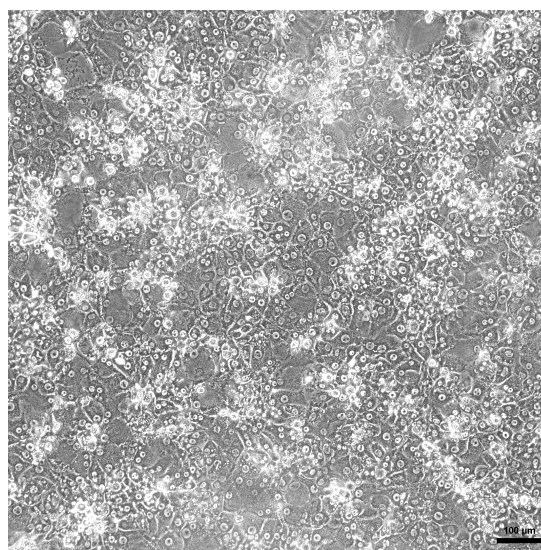
Only one spin required. No washing step.

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 – 400,000 cells/well // 96well plate – 50,000 cells/well

Culture in Human Hepatocyte Maintenance Medium (HHMM).

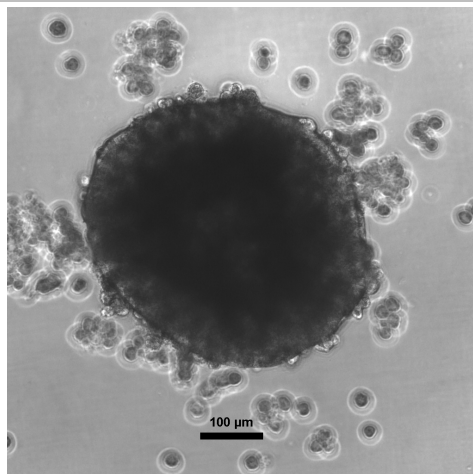
Note: Gently shake the plate (N/S-E/W) every 30 minutes for 2 hours after plating (only 24well plate and bigger wells). This step has a positive effect on the uniform plating.

CYP P450 activity in 2D culture after thawing: Ethoxyresorufin-O-deethylation: Induction with 25 µM β-Naphthoflavone	pmol/(mg × min) 24well: 110.6 ± 3.6 96well: 147.8 ± 19.1	X-fold induction 44.9 52.1
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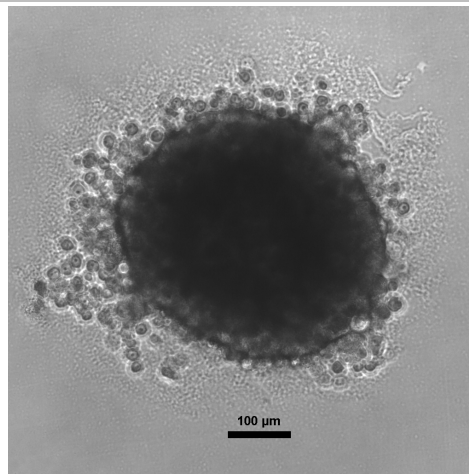
3D culture

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

day 6



day 10



Suspension culture

Viability test on orbital shaker (Eppendorf Thermomixer C, 1000 rpm at 37 °C with 0.5 x 10⁶ cells in 0.5 ml HM-Cryo):

Time (h)	0	1	2	3
Viability (%)	78.3	57.0	51.7	54.0

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

Note for thawing process: Only one spin at 100 x g, 10 min., 20 °C is required. No washing step needed.

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.

Detailed animal information and husbandry conditions			
Species	Rat (<i>Rattus norvegicus</i> forma domestica)		
Strain	Wistar:Han IGS rat // Crl:Wi(Han), 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 ≥ 7 days before use. Animal housing permits according to §11 Abs. 1 TSchG, March 22, 2022 and November 18, 2024 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.			
<table border="1"> <tr> <td>Issued by: A. Sattler</td><td>Verified by: J. Schuldt</td></tr> </table>		Issued by: A. Sattler	Verified by: J. Schuldt
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