

RHCP-I-3DRat Hepatocytes Cryopreserved Plateable for Induction assays and for 3D cultureCell Specification – Certificate of Analysis (CoA)					
Lot RH210728	Batch Release: August 15, 2022				
Done	or data				
Species: Rattus norvegicus forma domestica Strain: Wistar:Han IGS rat // Crl:Wi(Han)	Gender: female Age: 5 months				
Cryopreservation and Thawing					
Cryopreservation:Thawing: n=1Date:July 28, 2021Post-thaw viability: 79.5 %Amount per vial:9.79 x 10 ⁶ cellsPost-thaw yield per vial: 6.0 x 10 ⁶ cellsRecovery: 61 %					
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 – 200,000 cells/well // 96well plate – 50,000 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: 40.6 ± 2.2	17.7		
Induction with 25 μ M β -Naphthoflavone	96well: 118.1 ± 23.1	36.0		

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3D culture					
Cells seeded in 96well ULA round bottom plates (FaCellitate), 2,500 cells/well					
day 6	day 8				
scale bar 100 μm	scale bar 100 µm				
CYP P450 activity in 3D culture after thawing:	pmol/(mg × min)	X-fold induction			
Ethoxyresorufin-O-deethylation: Induction with 3 µM β-Naphthoflavone	96well: 10.6 ± 1.9	3.2			

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 HM-Cryo):

Time (h)	0	0.5	1	1.5	2	3	4	5
Viability (%)	79.5	64.5	61.5	54.3	62.3	54.9	52.5	58.4

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 LN₂

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



Detailed animal information and husbandry conditions				
Species	Rat (Rattus norvegicus 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	07:00-19:00 light / 19:00-07:00 dark (12 hours light/dark)			
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			
Animal housing per 2022 under superv Hepatocytes were	ed under veterinary control and allowed to acclimate \geq 7 days before use. mits according to §11 Abs. 1 TSchG, dated March 20, 2017 and March 22, ision of Veterinary Office of Landkreis Ludwigslust/Parchim, FRG. obtained from a non-infectious, non-contagious, healthy animal. The animal from a facility conducting work or research with animal pathogens.			

Issued by: A. Ullrich	Verified by: T. Krimmling
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