

RHCP-I-3D Rat Hepatocytes Cryopreserved Plateable for Induction assays and for 3D culture Cell Specification – Certificate of Analysis (CoA)		
Lot RH210310	Batch Release: November 11, 2021; updated July 10, 2022	
Don	or data	
Species: Rattus norvegicus forma domestica Strain: Wistar:Han IGS rat // Crl:Wi(Han)	Gender: female Age: approx. 5 months	
Cryopreservat	tion and Thawing	
Cryopreservation:Date:Mar 10, 2021Amount per vial:10.1 x 10 ⁶ cells	Thawing: n=1 Post-thaw viability: 90.0 % Post-thaw yield per vial: 7.0 x 10 ⁶ cells Recovery: 70 %	
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 – 300,000 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: 135.3 ± 1.1	17.5	
Induction with 25 µM B-Naphthoflavone	96well: 472.6 ± 89.4	32.5	

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3D culture					
Cells seeded in 96well ULA round bottom plates (FaCellitate), 2,500 cells/well					
day 4	day 7				
scale bar 100 μm	scale bar 100 µm				
CYP P450 activity in 3D culture after thawing: Ethoxyresorufin-O-deethylation:	pmol/(mg × min)	X-fold induction			
Induction with 3 μ M β -Naphthoflavone	96well: 11.3 ± 1.8	2.6			

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	0.5	1	1.5	2	3	4	5
Viability (%)	90.0	67.2	75.8	67.3	73.6	74.3	69.5	78.0

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

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			
Rat (Rattus norvegicus forma domestica)			
Wistar:Han IGS rat // Crl:Wi(Han), IGS (International Genetic Standard)			
Charles River Germany GmbH & Co. KG, Sulzbach, FRG			
Altromin Maintenance diet for rats/mice (ad libitum), Altromin, Lage, FRG			
ad libitum			
07:00-19:00 light / 19:00-07:00 dark (12 hours light/dark)			
20-24 °C			
40-70 %			
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 permit according to §11 Abs. 1 TSchG, dated March 20, 2017 under supervision of Veterinary Office of Landkreis Ludwigslust/Parchim, FRG. Hepatocytes were obtained from a non-infectious, non-contagious, healthy animal.			

Issued by: A. Ullrich	Verified by: Dieter Runge
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