

RHCP-I Cryopreserved Rat Hepatocytes Plateable for Induction assays Cell Specification – Certificate of Analysis (CoA)

Lot RH191007 Batch Release: August 01, 2023

Donor data

Species: Rattus norvegicus forma domestica

CD IGS rat (Sprague Dawley) // Crl:CD(SD)

Gender: male

Age: approx. 2 months

Cryopreservation and Thawing

Cryopreservation:

Date: Oct 07, 2019 Amount per vial: 10.0×10^6 cells **Thawing:** n=2

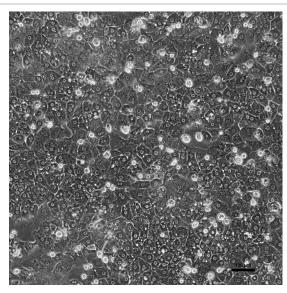
Post-thaw viability: $86.1 \pm 1.3 \%$

Post-thaw yield per vial: $5.0 \pm 0.5 \times 10^6$ cells

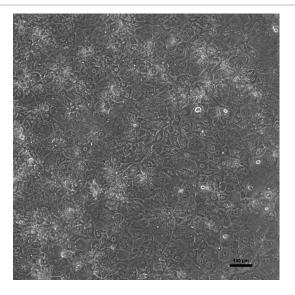
Recovery: $50.0 \pm 5.2 \%$

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: Ethoxyresorufin-O-deethylation: Induction with 25 µM β-Naphthoflavone pmol/(mg × min) 24well: 89.5 ± 8.2 96well: 110.7 ± 11.0

X-fold induction 23.9 9.0



Suspension culture

Viability test on orbital shaker (Eppendorf Thermomixer C, 1000 rpm at 37 $^{\circ}$ C with 0.5 x 10 6 cells in 0.5 ml HM-Cryo):

Time (h)	0	0.5	1	1.5	2	3	4	5
Viability (%)	86.1	65.2	67.2	57.8	54.6	55.4	50.0	50.0
	±1.3	±0.3	±4.2	±2.0	±3.5			

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	CD IGS rat (Sprague Dawley) // Crl:CD(SD), 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, dated March 20, 2017 and 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.

Issued by: A. Alkufairi	Verified by: K. Damrau
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