PRIMACYT
Cell Culture Technology

RTHCP Rainbow Trout Hepatocytes Cryopreserved Plateable **Cell Specification – Certificate of Analysis (CoA)**	
Lot RTH230614	Batch Release: March 9, 2026

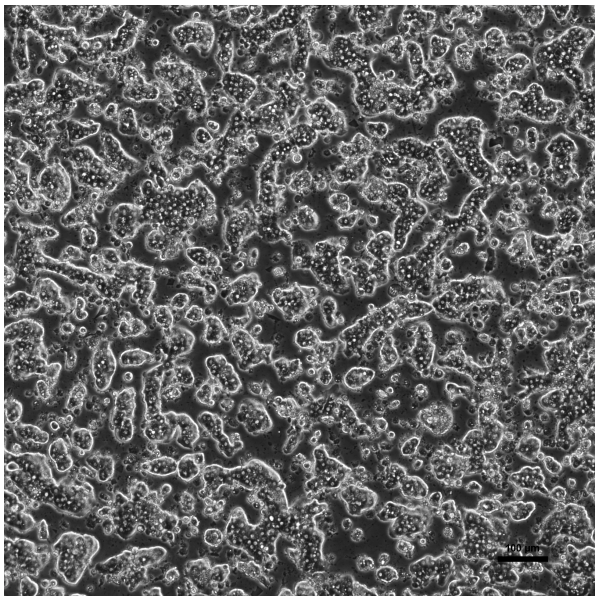
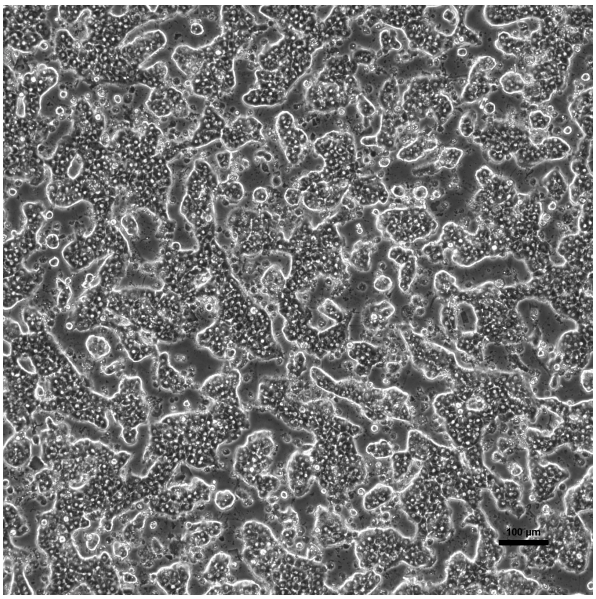
Donor data	
Species: Rainbow trout (Oncorhynchus mykiss)	Gender: female Age: sexual immature Pool: n = 5

Animal characteristics					
Donor	1	2	3	4	5
Fish weight (g)	297	365	337	357	319
Fish length (cm)	28	30	32	31	29
Gonads weight (g)	0.25	0.31	0.28	0.37	0.26
GSI (gonads weight/fish weight)	0.08	0.09	0.08	0.10	0.08
Liver weight (g)	4.9	4.9	3.0	3.6	3.2
Total liver weight (g)	19.6				

Cryopreservation and Thawing	
Cryopreservation: Date: June 13, 2023 Amount per vial: 10.0 x 10^6 cells	**Thawing:** n=5 Post-thaw viability: 98.5 ± 0.5 % Post-thaw yield per vial: 0.6 ± 0.1 x 10^6 cells Recovery: 6 %

© PRIMACYT Cell Culture Technology GmbH, Hagenower Str. 73, D-19061 Schwerin, FRG, www.primacyt.com
E-mail: info@primacyt.de, Tel.: +49 (0) 385-3993-600, Fax: +49 (0) 385-3993-602

PRIMACYT
Cell Culture Technology

2D culture	
Phase contrast on day 6 after thawing (24well plate)	Phase contrast on day 9 after thawing (24well plate)
	

Recommended seeding density on Corning Primaria plates coated with Matrigel:
24well plate – 580,000 cells/well
Culture in Fish Hepatocytes Medium (FHM).

Phase I and II metabolism: Determination of basal enzymatic activities in plated cells:

Assay	**Enzyme activities (nM/min*mg protein)** mean ± SD
Phenacetin-O-deethylase	0.57 ± 0.01
Diclofenac-hydroxylase	1.00 ± 0.04
Midazolam 1′-hydroxylase	0.17 ± 0.005
UDP-Glucuronosyltransferase	23.9
Sulfotransferase	5.5

Enzyme activity assays were performed at PRIMACYT GmbH. The assays were conducted with 0.58 x 10^6 plated cells in 0.5 mL FHM at 15 °C for 2 h. Values for enzyme activities are mean ± standard deviation of two determinations (phase I) and one determination (phase II). Metabolite formation was determined with validated LC-MS/MS methods by a GLP certified external service provider.

PRIMACYT
Cell Culture Technology

Suspension culture
Viability test on orbital shaker (Eppendorf Thermomixer C, 1000 rpm at 14 °C with 0.5 x 10^6 cells in 0.5 ml L15-Cryo):

Time (h)	0	1	2	3
Viability (%)	99.1	99.1	99.2	98.9

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

Detailed animal information and husbandry conditions	
Species	Rainbow trout (Oncorhynchus mykiss)
Vendor	Fish Aquaristikshop, Osterberg 11, 19061 Schwerin
Food	Alkote, Allco Heimtierbedarf GmbH & Co. KG, Thedinghausen
Light/Dark cycle	natural day / night cycle using daylight
Husbandry	3.5 m^3 water tank
Stocking rate (kg/m^3)	2.7 ± 0.3
Water temperature (°C)	15.9 ± 0.3
pH	8.2 ± 0.3
NH_4 (mg/l)	0.2 ± 0.1
NO_2 (mg/l)	0.3 ± 0.2
NO_3 (mg/l)	5.9 ± 2.6
Carbonate hardness (°dh)	8.4 ± 0.6
Salinity (‰)	0.20 ± 0.00
Conductivity (µS/cm)	568.4 ± 12.2
Acid capacity pH 4.3 (mmol/l)	3.0 ± 0.2
Animals were housed under veterinary control and allowed to acclimate ≥ 7 days before use. Liver tissues were obtained from non-infectious, non-contagious, healthy animals. The animals do not originate from a facility conducting work or research with animal pathogens.	

Store at -150 °C or in the vapour phase of LN_2

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

Issued by: A. Ullrich	Verified by: J. Schuldt