

RTHCS Rainbow Trout Hepatocytes Cryopreserved for Suspension assays
Cell Specification – Certificate of Analysis (CoA)

Lot RTH230613

Batch Release: October 14, 2024

Donor data

Species: Rainbow trout (<i>Oncorhynchus mykiss</i>)	Gender: female Age: sexual immature Pool: n = 6
---	---

Animal characteristics

Donor	1	2	3	4	5	6
Fish weight (g)	297	365	337	357	319	415
Fish length (cm)	28	30	32	31	29	34
Gonads weight (g)	0.25	0.31	0.28	0.37	0.26	1.24
GSI (gonads weight/fish weight)	0.08	0.09	0.08	0.10	0.08	0.30
Liver weight (g)	4.9	4.9	3.0	3.6	3.2	6.9
Total liver weight (g)	26.5					

Cryopreservation and Thawing

Cryopreservation:	Thawing: n=2
Date: June 13, 2023	Post-thaw viability: 94.6 ± 0.4 %
Amount per vial: 15.0 x 10 ⁶ cells	Post-thaw yield per vial: 3.6 ± 0.6 x 10 ⁶ cells
	Recovery: 24 %

Suspension culture

Viability test on orbital shaker (Eppendorf Thermomixer C, 1000 rpm at 14 °C with 0.5 x 10⁶ cells in 0.5 ml L15-Cryo):

Time (h)	0	1	2	3	4	5	24
Viability (%)	94.6	97.8	99.5	99.4	99.5	99.3	96.3

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 (<i>Oncorhynchus mykiss</i>)
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 cm 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
<p>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.</p>	

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.

Issued by: M. Reu	Verified by: T. Krimmling
-------------------	---------------------------