

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

Lot RTH230629-1

Batch Release: October 15, 2024

Donor data

Species: Rainbow trout (*Oncorhynchus mykiss*)

Gender: mixed, 3 female, 1 male

Age: sexual immature

Pool: n = 4

Animal characteristics

Donor	1	2	3	4
Fish weight (g)	392	357	378	332
Fish length (cm)	30	31	32	32
Gonads weight (g)	1.22	0.14	0.38	0.40
GSI (gonads weight/fish weight)	0.31	0.04	0.10	0.12
Liver weight (g)	5.2	3.7	3.9	3.2
Total liver weight (g)	16.1			

Cryopreservation and Thawing

Cryopreservation:

Date: June 29, 2023

Amount per vial: 15.0 x 10⁶ cells

Thawing: n=2

Post-thaw viability: 96.4 ± 0.1 %

Post-thaw yield per vial: 6.7 ± 0.1 x 10⁶ cells

Recovery: 45 %

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 (%)	96.4	96.7	98.8	98.3	98.1	99.0	96.1

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)	2.2 ± 0.5
Water temperature (°C)	16.1 ± 0.5
pH	8.1 ± 0.4
NH ₄ (mg/l)	0.2 ± 0.1
NO ₂ (mg/l)	0.2 ± 0.1
NO ₃ (mg/l)	8.1 ± 2.4
Carbonate hardness (°dh)	8.4 ± 0.7
Salinity (‰)	0.2 ± 0.0
Conductivity (µS/cm)	583.6 ± 10.8
Acid capacity pH 4.3 (mmol/l)	3.0 ± 0.3
<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: K. Damrau