

RTHCS Cryo	-	ed Rain	bow T	rout He	epatocy	tes for S	Suspens	sion Ass	says		
Cell Specification Lot RTH180212-1 Pool				Batch Release: June 1, 2018 – Last Updated Dec 14, 2022							
Species: Rainbow trout (Oncorhynchus mykiss) Strain: Christophersen, Bornhoeved Supplier: Fish breeding Christophersen Acclimation temperature: 13.2 ± 1.3 °C					Number and gender of animals: 1 female, 2 male sexual immature All animals were kept under controlled environmental conditions at Fraunhofer EMB in						
Age: approx. 2 years							JIULUUIS	at Flauin)	
Animal charact	eristics:										
Donor			1	2	3						
Fish weight (g)			360	352	330						
Liver weight (g)			6.33	5.35	3.68						
Gonad weight (g)			-	0.14	0.46						
GSI (gonad weight/fish weight)			-	0.04	0.14						
GSI = Gonadosoi	matic inde	ex									
Date: February 12, 20 Amount per vial: 15.0 x 10 ⁶ cells Viability test: Orbital shaker (Eppender 0.5 ml L-15 medium with 5 % FCS): n = 3				hermomi	Post-thaw viability: $85.6 \pm 2.7 \%$ Post-thaw yield per vial: $2.5 \pm 0.8 \times 10^6$ cells Recovery: 16.4 % ixer C, 1000 rpm at 14 °C with 0.5 x 10 ⁶ cells in						
Time (h)	0	0.5	1	1.5	2	3	4	5	15	5	
Viability (%)	89.4	89.4	92.7	88.0	96.4	95.7	89.7	96.2	98.7	99.1	
Phase I and Ph			m: Dete	erminatio	n of enzy	matic acti	vities in s	suspensio			
A	ssay		Enzy	yme acti	ivities (pmol/min*mg protein)						
Phenacetin	-O-deeth	vlase		mean ± SD 2.6 ± 0.9							
Phenacetin-O-deethylase Bupropion-hydroxylase				2.2 ± 0.1							
Diclofenac 4'-hydroxylase				6.2 ± 1.6							
Bufuralol 1'-hydroxylase				1.2 ± 0.1							
Midazolam 1'-hydroxylase				4.5 ± 0.3							
UDP-Glucuronosyltransferase				32.1 ± 3.4							
Sulfotransferase				13.1 ± 1.3							
Enzyme activity as ml L-15 medium w activities were dete determinations. Me service provider.	ith 5 % FC ermined at	S at 14 °C a single s	and 1.00 Ubstrate	00 rpm us concentrat	ing an Epp tion and a	pendorf The re mean ±	ermomixe standard	r C. Values deviation	s for enzym of three	ne	

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Determination of Polycyclic Aromatic Hydrocarbons (PAH) metabolism:

Incubation of trout hepatocytes with 20 µM Benzo[a]pyrene for 24 h. Determination of Benzo[a]pyrene metabolites by HPLC-FLD in cell culture medium after treatment with β-Glucuronidase/Arylsulfatase. Chemical analysis of Benzo[a]pyrene metabolites was performed by Biochemisches Institut für Umweltcarcinogene, Prof. Dr. Gernot Grimmer Stiftung, Großhansdorf, Germany.

Metabolite	ng/ml
trans-7,8-Dihydroxy-4,5-dihydrobenzo[a]pyrene	1.5
1-Hydroxybenzo[a]pyrene	2.2
3-Hydroxybenzo[a]pyrene	5.9

Animal husbandry conditions: after acclimation period of 2 weeks

Stocking rate (kg/m ³)	10.9 ± 2.0
Water temperature (°C)	13.9 ± 0.9
рН	8.0 ± 0.1
NH₄ (mg/l)	0.0 ± 0.0
NO ₂ (mg/l)	0.1 ± 0.08
NO ₃ (mg/l)	53.6 ± 14.6
CaCO ₃ (mg/l)	167.3 ± 14.7
Salinity (‰)	0.31 ± 0.02

Note:

For thawing of fish (rainbow trout) hepatocytes please follow the manual "Thawing 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.

Issued by: M. Thiede	Checked by: A. Ullrich
Updated by: A. Ullrich	Checked by: K.Damrau