

Rainbow Trout Liver Subcellular fractions Product specification – Certificate of Analysis (CoA)		
Lot RTL230704 (Pool of 8)	Batch Release: September 7, 2023	

Product information					
Product code	Product description	Amount	Protein content		
RTL-S9-3P8	Rainbow trout liver S9 fraction, mixed gender, pool of 8	0.5 mL	20 mg/mL		

Donor data		
Species: Rainbow trout (Oncorhynchus mykiss)	Gender: mixed gender Age: sexual immature Pool: n = 8	

Animal characteristics								
Donor	1	2	3	4	5	6	7	8
Fish weight (g)	372	473	543	478	384	357	359	319
Fish length (cm)	34	32	36	33	30	31	30	29
Gonads weight (g)	0.23	0.33	1.63	0.50	0.51	0.27	0.30	0.32
GSI (gonads weight/fish weight)	0.06	0.07	0.30	0.10	0.13	0.07	0.08	0.10
Liver weight (g)	5.41	7.77	7.52	8.68	6.77	4.07	6.45	5.44
Liver weight total (g)				52	2.1			

Enzyme assay results				
Enzyme (Human isoforms)	Acc.)/	Enzyme activities (nM/min)		
	Assay	S9 Fraction		
CYP1A2	Phenacetin-O-deethylase	0.33 ± 0.02		
CYP2A6	Coumarin-7'-hydroxylase	not detectable		
CYP2B6	Bupropion-hydroxylase	0.04 ± 0.001		
CYP2C9	Diclofenac 4'-hydroxylase	0.86 ± 0.09		
CYP2C19	Mephenytoin 4'-hydroxylase	not detectable		
CYP2E1	Chlorzoxazone 6'-hydroxylase	0.16 ± 0.002		
CYP3A4	Midazolam 1'-hydroxylase	0.08 ± 0.01		

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Enzyme assay results				
Enzyme	Assay	Enzyme activities (nM/min)		
	Assay	S9 Fraction		
UDP-GT	UDP-Glucuronosyltransferase	442.32 ± 62.32		
SULT	Sulfotransferase	9.04 ± 0.71		

Note: Activity assays were performed at PRIMACYT GmbH. The assays were conducted at 1 mg/mL protein in 0.1 M Phosphate buffer at 14 °C for 15 min (phase I) and 30 min (phase II). Values are expressed as mean ± SD.

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 cm ³ water tank		
Stocking rate (kg/m ³)	3.21 ± 0.8		
Water temperature (°C)	14.0 ± 1.7		
рН	8.0 ± 0.4		
NH ₄ (mg/l)	4.4 ± 3.1		
NO ₂ (mg/l)	1.3 ± 1.9		
NO₃ (mg/l)	1.4 ± 1.3		
Carbonate hardness (°dh)	12.9 ± 0.7		
Salinity (‰)	0.24 ± 0.05		
Conductivity (µS/cm)	643.2 ± 32.8		
Acid capacity pH 4.3 (mmol/l)	4.6 ± 0.2		

Animals were housed under veterinary control and allowed to acclimate \geq 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 -80 °C.

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

Issued by: M. Reu

Verified by: T. Krimmling