

**Rainbow Trout Gills Subcellular fractions**  
**Product specification – Certificate of Analysis (CoA)**

Lot RTG230713 (Pool of 8)

Batch Release: September 11, 2023

**Product information**

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

**Donor data**

Species: Rainbow trout ( <i>Oncorhynchus mykiss</i> )	Gender: mixed gender Age: sexual immature Pool: n = 8
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**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
Gills weight (g)	4.3	4.3	5.4	4.4	4.4	4.3	4.2	3.9
Gills weight total (g)	35.1							

**Enzyme assay results**

Enzyme (Human isoforms)	Assay	Enzyme activities (nM/min)
		S9 Fraction
CYP1A2	Phenacetin-O-deethylase	not detectable
CYP2A6	Coumarin-7'-hydroxylase	not detectable
CYP2B6	Bupropion-hydroxylase	not detectable
CYP2C9	Diclofenac 4'-hydroxylase	not detectable
CYP2C19	Mephenytoin 4'-hydroxylase	not detectable
CYP2E1	Chlorzoxazone 6'-hydroxylase	not detectable
CYP3A4	Midazolam 1'-hydroxylase	not detectable

Enzyme assay results		
Enzyme	Assay	Enzyme activities (nM/min)
		S9 Fraction
UDP-GT	UDP-Glucuronosyltransferase	30.23 ± 1.57
SULT	Sulfotransferase	1.82 ± 0.32

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 ( <i>Oncorhynchus mykiss</i> )
Vendor	Fish Aquaristikshop, Osterberg 11, 19061 Schwerin
Food	Alkote, Allico Heimtierbedarf GmbH & Co. KG, Thedinghausen
Light/Dark cycle	natural day / night cycle using natural light
Husbandry	3.5 cm <sup>3</sup> water tank
Stocking rate (kg/m <sup>3</sup> )	3.21 ± 0.8
Water temperature (°C)	14.0 ± 1.7
pH	8.0 ± 0.4
NH <sub>4</sub> (mg/l)	4.4 ± 3.1
NO <sub>2</sub> (mg/l)	1.3 ± 1.9
NO <sub>3</sub> (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 ≥ 7 days before use. Gill tissues were obtained from a non-infectious, non-contagious, healthy animals. The animals does 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: K. Damrau