

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

Lot RTG251006 (Pool of 8)

Batch Release: May 27, 2026

Product information

Product code	Product description	Amount	Protein content
RTG-S9-3P8	Rainbow trout gill 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)	404	496	446	474	443	392	532	383
Fish length (cm)	31	32	32	31	32	31	34	29
Gonads weight (g)	0.67	0.36	0.20	0.09	0.13	0.13	0.45	0.36
GSI (gonads weight/fish weight)	0.17	0.07	0.04	0.02	0.03	0.03	0.08	0.09
Gill weight (g)	5.6	4.5	5.5	4.9	5.4	5.0	5.5	4.5
Gill weight total (g)	40.9							
S9 fraction (%) of total gill weight	2.45							

Enzyme assay results

Enzyme (Human isoforms)	Assay	Enzyme activities (nM/min)
		S9 Fraction
CYP1A2	Phenacetin O-deethylase	0.06 ± 0.01
CYP2A6	Coumarin 7'-hydroxylase	not detectable
CYP2B6	Bupropion hydroxylase	not detectable
CYP2C9	Diclofenac 4'-hydroxylase	0.10 ± 0.00
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	41.64 ± 1.30
SULT	Sulfotransferase	0.56 ± 0.01

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 60 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, Alco Heimtierbedarf GmbH & Co. KG, 27321 Thedinghausen
Light/Dark cycle	natural day / night cycle using natural light
Husbandry	3.5 m ³ water tank
Stocking rate (kg/m ³)	2.84 ± 1.1
Water temperature (°C)	14.9 ± 2.0
pH	8.1 ± 0.4
NH ₄ (mg/l)	3.1 ± 3.2
NO ₂ (mg/l)	1.0 ± 1.7
NO ₃ (mg/l)	2.5 ± 2.2
Carbonate hardness (°dh)	12.1 ± 1.3
Salinity (‰)	0.23 ± 0.05
Conductivity (µS/cm)	630.5 ± 34.0
Acid capacity pH 4.3 (mmol/l)	4.3 ± 0.5

Animals were housed under veterinary control and allowed to acclimate ≥ 7 days before use. Heart tissues were obtained from a 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: J. Schuldt