

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

Lot RTG220721 (Pool of 10)

Batch Release: April 24, 2023

Product information

Product number	Product description	Amount	Protein content
RTG-S9-2P10	Rainbow trout gills S9 fraction, female, pool of 10	0.5 mL	20 mg/mL

Donor data

Species: Rainbow trout (<i>Oncorhynchus mykiss</i>)	Gender: female Age: sexual immature Pool: N = 10
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Equal amounts of gills tissues were pooled to generate subcellular fractions.

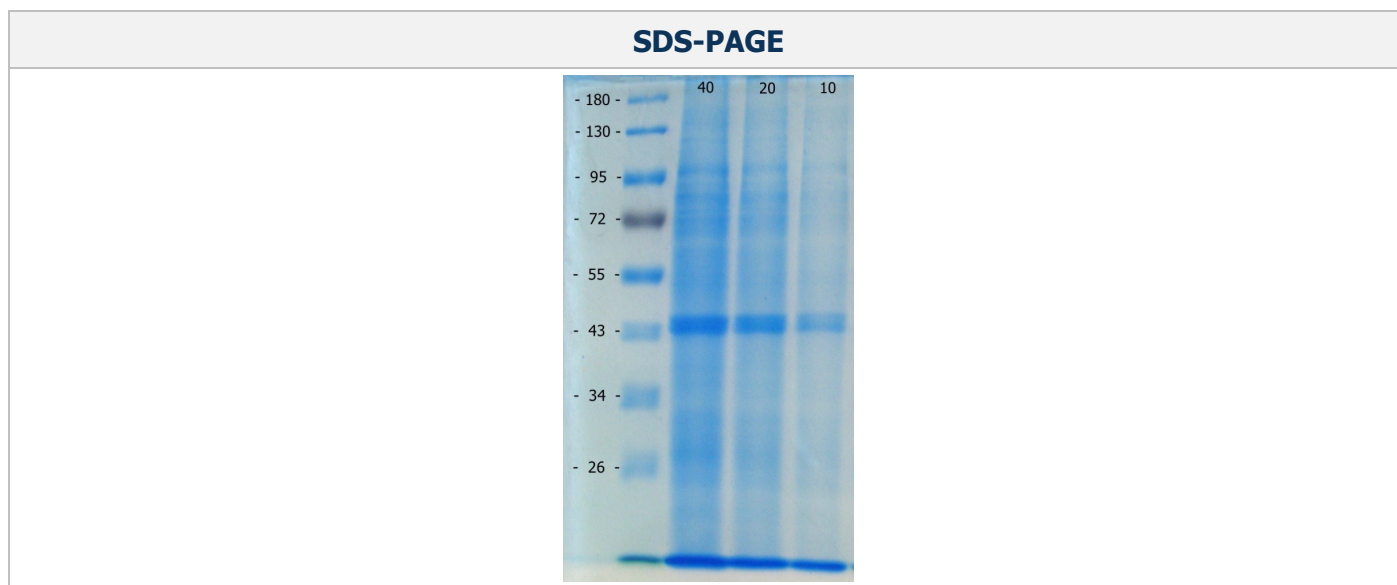
Animal characteristics

Donor	1	2	3	4	5	6	7	8	9	10
Fish weight (g)	550	537	531	642	460	651	546	439	424	588
Fish length (cm)	34	34	36	37	33	38	35	34	33	36
Gonaden weight (g)	1.4	1.1	2.0	0.8	0.5	1.8	0.7	1.4	0.4	0.8
GSI (gonaden weight/fish weight)	0.25	0.20	0.38	0.12	0.11	0.28	0.13	0.32	0.09	0.14
Gills weight (g)	111.7									

GSI = Gonadosomatic index

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	0.04 ± 0.01
CYP2C9	Diclofenac 4'-hydroxylase	2.13 ± 0.33
CYP2C19	Mephenytoin 4'-hydroxylase	BLQ
CYP2E1	Chlorzoxazone 6'-hydroxylase	0.17 ± 0.02
CYP3A4	Midazolam 1'-hydroxylase	BLQ
UDP-GT	UDP-Glucuronosyltransferase	8.76 ± 0.58
SULT	Sulfotransferase	0.91 ± 0.08

Note: Activity assays were performed at PRIMACYT GmbH. The assays were conducted at 1 mg/mL protein in 0.1 M Phosphate buffer at 37 °C for 15 min (phase I) and 30 min (phase II). Values are expressed as mean ± SD of 2 separate experiments. BLQ = below level of quantification.



Note: SDS-PAGE was performed at PRIMACYT GmbH using a 7 % stacking gel and a 10 % separating gel with 10, 20 and 40 µg protein as indicated. Pageruler Prestained Protein Ladder by Thermo Scientific was used as marker. Protein sizes (kDa) denoted on the left.

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