

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

Lot RTC250730 (Pool of 8)

Batch Release: June 01, 2026

**Product information**

| Product code | Product description                                            | Amount | Protein content |
|--------------|----------------------------------------------------------------|--------|-----------------|
| RTC-S9-3P8   | Rainbow trout heart (cor) S9 fraction, mixed gender, pool of 8 | 1.0 mL | 10 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 |
| Heart weight (g)                      | 0.48 | 0.46 | 0.57 | 0.55 | 0.41 | 0.36 | 0.61 | 0.44 |
| Heart weight total (g)                | 3.88 |      |      |      |      |      |      |      |
| S9 fraction (%) of total heart weight | 2.51 |      |      |      |      |      |      |      |

**Enzyme assay results**

| Enzyme<br>(Human isoforms) | Assay                        | Enzyme activities (nM/min) |
|----------------------------|------------------------------|----------------------------|
|                            |                              | S9 Fraction                |
| CYP1A2                     | Phenacetin O-deethylase      | 0.08 ± 0.03                |
| CYP2A6                     | Coumarin 7'-hydroxylase      | not detectable             |
| CYP2B6                     | Bupropion hydroxylase        | not detectable             |
| CYP2C9                     | Diclofenac 4'-hydroxylase    | 0.09 ± 0.01                |
| 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 | 29.48 ± 2.50               |
| SULT                 | Sulfotransferase            | 0.58 ± 0.20                |

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 <sup>3</sup> water tank                                  |
| Stocking rate (kg/m <sup>3</sup> )                   | 2.84 ± 1.1                                                     |
| Water temperature (°C)                               | 14.9 ± 2.0                                                     |
| pH                                                   | 8.1 ± 0.4                                                      |
| NH <sub>4</sub> (mg/l)                               | 3.1 ± 3.2                                                      |
| NO <sub>2</sub> (mg/l)                               | 1.0 ± 1.7                                                      |
| NO <sub>3</sub> (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