PRIMACYT
Cell Culture Technology

Common Carp Liver Subcellular fractions **Product specification – Certificate of Analysis (CoA)**	
Lot CCL200702-2 (Pool of 4)	Batch Release: June 20, 2025

Product information			
Product code	Product description	Amount	Protein content
CCL-S9-3P4	Common Carp liver S9 fraction, mixed gender, pool of 4	1.0 mL	10 mg/mL

Donor data	
Species: Common Carp (Cyprinus carpio) Gender: mixed (2 male, 2 female)	Age: approx. 2 years (sexual immature) Pool: n = 4
Equal amounts of liver tissues were pooled to generate subcellular fractions.	

Animal characteristics				
Donor	1	2	3	4
Gender	male		female	
Fish weight (g)	327	312	294	387
Gonad weight (g)	1.15	0.85	0.06	0.18
GSI (gonad weight/fish weight)	0.35	0.27	0.02	0.05
Liver weight (g)	13.2	10.3	11.4	12.2
Liver weight total (g)	47.1			
S9 fraction (%) of total liver weight	4.5			

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Enzyme assay results		
Enzyme (Human isoforms)	Assay	Enzyme activities (nM/min)
		S9 Fraction
CYP1A2	Phenacetin-O-deethylase	0.54 ± 0.10
CYP2A6	Coumarin-7'-hydroxylase	0.06 ± 0.02
CYP2B6	Bupropion-hydroxylase	0.12 ± 0.03
CYP2C9	Diclofenac 4'-hydroxylase	5.69 ± 0.93
CYP2C19	Mephenytoin 4'-hydroxylase	0.13 ± 0.01
CYP2E1	Chlorzoxazone 6'-hydroxylase	0.14 ± 0.06
CYP3A4	Midazolam 1'-hydroxylase	0.32 ± 0.12
UDP-GT	UDP-Glucuronosyltransferase	35.6 ± 9.3
SULT	Sulfotransferase	8.19 ± 0.42

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	Common Carp (Cyprinus carpio)
Water temperature (°C)	14.1 ± 1.0
pH	8.1 ± 0.1
NH_4 (mg/l)	0.05 ± 0.06
NO_2 (mg/l)	0.05 ± 0.03
NO_3 (mg/l)	12.0 ± 1.6
Carbonate hardness (°dH)	8.1 ± 0.3
Salinity (‰)	0.2 ± 0.0
Animals were housed under veterinary control and allowed to acclimate ≥ 7 days before use. Liver tissues were obtained from a non-infectious, non-contagious, healthy animal. 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: K. Damrau