

**Human Liver Subcellular fractions**  
**Product specification – Certificate of Analysis (CoA)**

Lot HL210315 (Pool of 5)

Batch Release: August 2, 2022

**Product information**

Product number	Product description	Amount	Protein content
HL-S9-1P5	human liver S9 fraction, male, pool of 5	0.5 mL	20 mg/mL

**Donor data**

Species: Human  
Gender: male

Age:  
donor 1: 51 years  
donor 2: 53 years  
donor 3: 57 years  
donor 4: 60 years  
donor 5: 68 years

Diagnosis:  
donor 1: liver metastasis of rectum carcinoma  
donor 2: hepatic metastasized Sigma carcinoma  
donor 3: liver metastasis (segment III) of NET (neuroendocrine tumor)  
donor 4: liver metastasis of renal cancer  
donor 5: liver metastasis

Serology: HAV, HBV, HCV, HIV 1/2: negative for all donors

Equal amounts of liver tissues were pooled to generate subcellular fractions.

<b>Enzyme assay results</b>		
Enzyme (Human isoforms)	Assay	Enzyme activities (nM/min)
		S9 Fraction
CYP1A2	Phenacetin-O-deethylase	44.8 ± 3.3
CYP2A6	Coumarin-7'-hydroxylase	1.5 ± 0.0
CYP2B6	Bupropion-hydroxylase	4.3 ± 0.2
CYP2C9	Diclofenac 4'-hydroxylase	33.3 ± 0.2
CYP2C19	Mephenytoin 4'-hydroxylase	not detectable
CYP2E1	Chlorzoxazone 6'-hydroxylase	not detectable
CYP3A4	Midazolam 1'-hydroxylase	22.1 ± 0.7
UDP-GT	UDP-Glucuronosyltransferase	4243.7 ± 1129.6
SULT	Sulfotransferase	38.1 ± 8.1

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.

**Store at -80 °C.**

This product should be considered as potential biohazard. Only intended for *in vitro* use.

Issued by: M. Reu

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