PRIMACYT
Cell Culture Technology

| **Human Liver Subcellular fractions**<br>**Product specification – Certificate of Analysis (CoA)** | |
|---|---|
| Lot HL211007 (Pool of 3) | Batch Release: August 1, 2022 |

| **Product information** | | | |
|---|---|---|---|
| Product number | Product description | Amount | Protein content |
| HL-MIC-1P3 | human liver microsomes, male, pool of 3 | 0.5 mL | 20 mg/mL |
| HL-CYT-1P3 | human liver cytosol, male, pool of 3 | 0.5 mL | 10 mg/mL |

| **Donor data** | |
|---|---|
| Species: Human<br>Gender: male | Age:<br>donor 1: 53 years<br>donor 2: 67 years<br>donor 3: 70 years |
| Diagnosis:<br>donor 1: hepatic metastasized Sigma carcinoma<br>donor 2: cancer of unknown primary syndrome in the liver<br>donro 3: highly differentiated hepatocellular carcinoma (grade 1), steatohepatitis, mesh fibrosis | |
| Serology: HAV, HBV, HCV, HIV 1/2: negative for all donors | |
| Equal amounts of liver tissues were pooled to generate subcellular fractions. | |

| **Enzyme assay results** | | | |
|---|---|---|---|
| Enzyme (Human isoforms) | Assay | Enzyme activities (nM/min) | |
| | | Microsomes | Cytosol |
| CYP1A2 | Phenacetin-O-deethylase | 109.0 ± 5.8 | - |
| CYP2A6 | Coumarin-7'-hydroxylase | 3.9 ± 0.3 | - |
| CYP2B6 | Bupropion-hydroxylase | 18.1 ± 0.4 | - |
| CYP2C9 | Diclofenac 4'-hydroxylase | 112.4 ± 1.1 | - |
| CYP2C19 | Mephenytoin 4'-hydroxylase | not detectable | - |
| CYP2E1 | Chlorzoxazone 6'-hydroxylase | 12.0 ± 2.3 | - |
| CYP3A4 | Midazolam 1'-hydroxylase | 78.2 ± 7.9 | - |
| UDP-GT | UDP-Glucuronosyltransferase | 4779.5 ± 546.2 | - |
| SULT | Sulfotransferase | - | 21.4 ± 0.7 |


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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.**<br>This product should be considered as potential biohazard. Only intended for *in vitro* use. | |
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| Issued by: M. Reu | Verified by: A. Ullrich |