

Subcellular fractions	
Lot human150317	Batch Release: Jan 25, 2016

Species: Human Gender: female Age: 40 years	Serology: negative for Hepatitis A/ B/ C, HIV 1/2
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Protein content	
Liver microsomes	2.8 mg/ml in Phosphate buffer
S9	10 mg/ml in Phosphate buffer
Cytosol	10 mg/ml in Phosphate buffer

Enzyme assay results			
Enzyme	Assay	Enzyme activity (ng/ml*min)	
		S9 fraction	liver microsomes
CYP1A2	Phenacetin-O-deethylase	0.30	3.32
CYP2C9	Diclofenac 4'-hydroxylase	136.67	652.67
CYP2C19	Omeprazol 5'-hydroxylase	1.49	5.14
CYP2D6	Dextromethorphan-O-demethylase	0.85	0.96
CYP3A4	Midazolam 1'-hydroxylase	2.38	15.20

Note: Activity assays were performed at PRIMACYT GmbH. The assays were conducted at 1 mg/ml protein in 0.1 M Phosphate buffer with NADPH generating system for 15 min at 37 °C.

Protein quantification			
Protein	Enzyme content (pmol/mg Protein)		
	S9 fraction	liver microsomes	Cytosol
CYP1A2	1.98	13.79	0.39
CYP2B6	BLQ	1.32	BLQ
CYP2C8	2.12	18.54	BLQ
CYP2C9	14.35	87.17	3.93
CYP2C19	0.23	1.38	1.10
CYP2D6	2.17	13.47	0.41
CYP2E1	5.40	41.29	1.55
CYP3A4	9.45	52.22	3.18
CYP3A5	BLQ	0.56	0.13
UGT1A1	1.61	5.44	0.57
UGT1A3	0.51	0.25	0.57
UGT2B7	0.74	5.15	0.16
UGT2B15	1.63	1.63	0.59

Note: BLQ – below limit of quantification

