

HHNSH.S9 Lot No. 1810234

Human Liver S9 – NASH Donor Pool Untreated, Mixed Gender, Pool of 5 1.0 mL at 20 mg protein / mL Suspension medium: 50 mM Tris-HCI, 150 mM KCI, 2 mM EDTA

Enzyme Activities							
Enzyme	Marker Substrate Reaction	[S] (µM)	Rate (pmol/mg protein/min)				
CYP1A2	Phenacetin O-dealkylation	80	67.2 ± 7.5				
CYP2A6	Coumarin 7-hydroxylation	50	115 ± 6				
CYP2B6	Bupropion hydroxylation	500	40.5 ± 3.0				
CYP2C8	Amodiaquine <i>N</i> -dealkylation	20	161 ± 7				
CYP2C9	Diclofenac 4'-hydroxylation	100	344 ± 54				
CYP2C19	S-Mephenytoin 4'-hydroxylation	400	< 0.1				
CYP2D6	Dextromethorphan O-demethylation	80	34.0 ± 2.8				
CYP2E1	Chlorzoxazone 6-hydroxylation	500	409 ± 9				
CYP3A4/5	Testosterone 6β-hydroxylation	250	319				
CYP3A4/5	Midazolam 1'-hydroxylation	30	92.3 ± 7.9				
CYP4A11	Lauric acid 12-hydroxylation	100	183 ± 29				

Characterization is performed when the first lot of a product from a given subcellular fraction (*e.g.*, S9) is prepared. Subsequent lots are subject to a verification test only. Values for enzyme activities were determined at a single substrate concentration and are mean <u>+</u> standard deviation of three or more determinations.

To measure cytochrome P450 (CYP) activity, liver S9 (50 μ g/mL) were incubated in triplicate at 37 ± 2°C for 10 minutes in potassium phosphate buffer (50 mM, pH 7.4), containing MgCl₂ (3.0 mM), EDTA (1.0 mM), NADP (1.0 mM), glucose-6-phosphate (5.0 mM), glucose-6-phosphate dehydrogenase (1 Unit/mL) and marker substrate, at the final concentrations indicated. Metabolite formation was determined by validated LC-MS/MS methods with deuterated metabolites as internal standards.

Donor Information

Sample	Gender	Age (Yrs)	Race	Cause of Death
958	М	47	Caucasian	Cerebrovascular accident
1027	F	63	Caucasian	Cerebrovascular accident
1028	F	51	African American	Cerebrovascular accident
1060	М	49	Hispanic	Cerebrovascular accident
1069	М	39	Caucasian	Cerebrovascular accident

Serology information

- Cytomegalovirus: 4 of 5 donors tested positive.
- RPR*: All donors tested negative.
- HIV, HbsAg, and HCV**: All donors tested negative.

* Rapid Plasma Reagin

** Antibody to Human Immunodeficiency Virus, Hepatitis B Surface Antigen, Antibody to Hepatitis C Virus, respectively.



Store at -80°C

CAUTION: This sample should be considered as a potential biohazard and universal precautions should be followed. Intended for *in vitro* use only.

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Datasheet prepared 17 January 2019