

## HHNML Lot No. 1810085

Human Liver Microsomes – Normal Donor Pool

Untreated, Mixed Gender, Pool of 27

0.5 mL at 20 mg protein / mL

Suspension medium: 250 mM sucrose

### Enzyme Activities

Enzyme	Marker Substrate Reaction	[S] (μM)	Rate (pmol/mg protein/min)
CYP1A2	Phenacetin O-dealkylation	80	429 ± 4
CYP2A6	Coumarin 7-hydroxylation	50	1140 ± 200
CYP2B6	Bupropion hydroxylation	500	789 ± 114
CYP2C8	Amodiaquine N-dealkylation	20	2210 ± 120
CYP2C9	Diclofenac 4'-hydroxylation	100	3270
CYP2C19	S-Mephenytoin 4'-hydroxylation	400	57.4 ± 4.1
CYP2D6	Dextromethorphan O-demethylation	80	289 ± 72
CYP2E1	Chlorzoxazone 6-hydroxylation	500	1900 ± 490
CYP3A4/5	Testosterone 6β-hydroxylation	250	2620 ± 140
CYP3A4/5	Midazolam 1'-hydroxylation	30	758 ± 53
CYP4A11	Lauric acid 12-hydroxylation	100	2310 ± 60

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 ± standard deviation of three or more determinations.

To measure cytochrome P450 (CYP) activity, liver microsomes (50 μg/mL) were incubated in triplicate at 37 ± 1°C for 10 minutes in potassium phosphate buffer (50 mM, pH 7.4), containing MgCl<sub>2</sub> (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.



### 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 07 May 2018

## Donor Information

Sample	Gender	Age (Yrs)	Race	Cause of Death
403	F	51	Caucasian	Anoxia
418	F	62	Hispanic	Cerebrovascular Accident
510	M	41	African American	Anoxia
528	M	60	Caucasian	Head Trauma
529	M	26	Caucasian	Head Trauma
533	M	28	African American	Anoxia
553	M	74	African American	Cerebrovascular Accident
601	M	35	Caucasian	Anoxia
606	F	76	Caucasian	Cerebrovascular Accident
736	F	46	Caucasian	Anoxia
761	M	70	Caucasian	Cerebrovascular Accident
805	F	24	African American	Anoxia
817	F	31	Caucasian	Anoxia
848	M	50	Caucasian	Head Trauma
857	M	59	Caucasian	Anoxia
863	M	50	Caucasian	Anoxia
880	M	46	Caucasian	Cerebrovascular Accident
881	M	48	Caucasian	Anoxia
898	F	58	African American	Cerebrovascular Accident
946	M	50	African American	Anoxia
947	F	45	Caucasian	Cerebrovascular Accident
954	M	55	Caucasian	Anoxia
986	M	63	Caucasian	Anoxia
1005	M	45	Caucasian	Cerebrovascular Accident
1008	M	36	Hispanic	Cerebrovascular Accident
1307	M	50	Asian	Cerebrovascular Accident
1362	M	56	Caucasian	Cerebrovascular Accident

**Serology information**

- Antibody to Cytomegalovirus: 16 of 27 donors tested positive.
- RPR\*: 27 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.

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