XENOTECH
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DATA SHEET

H2D6.MA / Lot No. 0710413

Human Liver Microsomes
Male, Individual No. 510
0.5 mL at 20 mg protein / mL

Genotype, specific content and activities [a]		Content / Rate
CYP2D6 Allelic variant		CYP2D6*17/*29
Cytochrome P450	(nmol/mg protein)	0.277
Cytochrome b_5	(nmol/mg protein)	0.424
NADPH-cytochrome *c* reductase	(nmol/mg protein/min)	188 ± 3
Enzyme	**Marker substrate reaction (pmol/mg protein/min)**	
CYP1A2	Phenacetin *O*-dealkylation	226 ± 20
CYP2A6	Coumarin 7-hydroxylation	14.6 ± 1.2
CYP2B6	Bupropion hydroxylation	1120 ± 10
CYP2C8	Amodiaquine *N*-dealkylation	1400 ± 50
CYP2C9	Diclofenac 4'-hydroxylation	1230 ± 50
CYP2C19	*S*-Mephenytoin 4'-hydroxylation	6.08 ± 0.09
CYP2D6	Dextromethorphan *O*-demethylation	98.9 ± 3.8
CYP2E1	Chlorzoxazone 6-hydroxylation	1180 ± 30
CYP3A4/5	Testosterone 6β-hydroxylation	2470 ± 40
CYP3A4	Midazolam 1'-hydroxylation	224 ± 22
CYP4A11	Lauric acid 12-hydroxylation	1470 ± 30

[a] Values for enzyme activities are mean ± standard deviation of three or more determinations.

Sample	Gender	Age (yrs)	Race	Cause of Death
H0510	Male	41	African American	Anoxia

Serology information

- This donor tested negative for cytomegalovirus
- This donor tested negative for HIV, HTLV, HbsAg, and HCV*
- This donor tested negative for RPR**

* Antibody to Human Immunodeficiency Virus, Antibody to Human T Cell Lymphotropic Virus, Hepatitis B Surface Antigen, Antibody to Hepatitis C Virus, respectively.
** Rapid Plasma Reagin.

Data sheet prepared 2/12/08

Store at -80 °C

For in vitro *use only*

CAUTION: *This liver sample is from a donor who tested negative for HIV and hepatitis. However, we recommend that these samples be considered as potential biohazards and that universal precautions be used when working with human derived products.*

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