

## H2D6.HA Lot No. 1710127

Human Liver Microsomes Male, Individual No. 1047 0.5 mL at 20 mg protein / mL Suspension medium: 250 mM sucrose

Genotype, Specific Content and Activities <sup>a</sup>

CYP2D6 All	CYP2D6 Allelic variant CYP2D6*1x2+*76/				
Cytochrome P450 Cytochrome b₅ NADPH-cytochrome <i>c</i> reductase		(nmol/mg protein) (nmol/mg protein) (nmol/mg protein/min)		0.176 0.314 213 ± 7	
Enzyme	Marker Substrate React	ion	[S] (µM)	Rate (pmol/mg protein/min)	
CYP1A2 CYP2A6 CYP2B6 CYP2C8 CYP2C9 CYP2C19 CYP2C19 CYP2D6 CYP2E1	Phenacetin O-dealkylation Coumarin 7-hydroxylation Bupropion hydroxylation Amodiaquine <i>N</i> -dealkylation Diclofenac 4'-hydroxylation S-Mephenytoin 4'-hydroxylation Dextromethorphan O-demethylation Chlorzoxazone 6-hydroxylation		80 50 500 20 100 400 80 500	$309 \pm 14$ $291 \pm 28$ $83.3 \pm 9.5$ $615 \pm 28$ $1260 \pm 80$ $12.4 \pm 0.2$ $452 \pm 17$ $1190 \pm 20$	
CYP3A4/5 CYP3A4 CYP4A11	Testosterone 6β-hydroxylat Midazolam 1'-hydroxylation Lauric acid 12-hydroxylatior	ion	30 250 30	681 ± 61 308 ± 22 631 ± 37	

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  $\pm$  standard deviation of three or more determinations.

To measure cytochrome P450 (CYP) activity, liver microsomes (50  $\mu$ g/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. FMO activity was measured under similar conditions except the protein concentration was 1 mg/mL and the buffer was 49 mM Tricine (pH 8.5)

Sample	Gender	Age (yrs)	Race	Cause of Death
H1047	Male	53	Hispanic	Cerebrovascular accident

## Serology information

- This donor tested positive for cytomegalovirus
- This donor tested negative for HIV, HbsAg, and HCV\*
- This donor tested negative for RPR\*\*
- \* Antibody to Human Immunodeficiency Virus, Hepatitis B Surface Antigen, Antibody to Hepatitis C Virus, respectively.
- \*\* Rapid Plasma Reagin.

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## 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 23 August 2017

Content / Rate