XENOTECH

Uncommon Science | Uncommon Service

DATA SHEET

H2C19.MA / Lot No. 0710415

Human Liver Microsomes
Female, Individual No. 512
0.5 mL at 20 mg protein / mL

Genotype, specific content and activities [a]		Content / Rate
CYP2C19 Allelic variant		CYP2C19*1/*2
Cytochrome P450 (nmol/mg protein)		0.193
Cytochrome b_5 (nmol/mg protein)		0.254
NADPH-cytochrome *c* reductase (nmol/mg protein/min)		111 ± 4
Enzyme	**Marker substrate reaction (pmol/mg protein/min)**	
CYP1A2	Phenacetin *O*-dealkylation	294 ± 34
CYP2A6	Coumarin 7-hydroxylation	125 ± 3
CYP2B6	Bupropion hydroxylation	104 ± 6
CYP2C8	Amodiaquine *N*-dealkylation	268 ± 3
CYP2C9	Diclofenac 4'-hydroxylation	1110 ± 110
CYP2C19	*S*-Mephenytoin 4'-hydroxylation	6.64 ± 0.41
CYP2D6	Dextromethorphan *O*-demethylation	191 ± 2
CYP2E1	Chlorzoxazone 6-hydroxylation	686 ± 30
CYP3A4/5	Testosterone 6β-hydroxylation	1230 ± 80
CYP3A4	Midazolam 1'-hydroxylation	67.7 ± 4.6
CYP4A11	Lauric acid 12-hydroxylation	740 ± 39

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

Sample	Gender	Age (yrs)	Race	Cause of Death
H0512	Female	62	Caucasian	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.*

16825 West 116th St. | Lenexa KS 66219
913.GET.P450 | fax 913.227.7100 | xenotechllc.com