XENOTECH
A BioIVT Company

Data Sheet

H1500.H15B Lot No. HC4-14

Cryopreserved Human Hepatocytes
Human, Female, Individual

Assured Minimum Yield: 4.0 x 10^6 cells per vial
Viability: 80.2%

Yield and viability are based on experiments performed at XenoTech using XenoTech's thawing protocol and K2000 Hepatocyte Isolation Kit.

Enzyme	*Marker Substrate Reaction*	*[S] (µM)*	*Rate (pmol/million cells/min)*
CYP1A2	Phenacetin *O*-dealkylation	100	90.1 ± 9.2
CYP2A6	Coumarin 7-hydroxylation	50	8.93 ± 1.51
CYP2B6	Bupropion hydroxylation	500	19.0 ± 1.3
CYP2C8	Amodiaquine *N*-dealkylation	20	50.6 ± 2.9
CYP2C9	Diclofenac 4'-hydroxylation	100	211 ± 30
CYP2C19	*S*-Mephenytoin 4'-hydroxylation	400	22.3 ± 3.0
CYP2D6	Dextromethorphan *O*-demethylation	80	25.4 ± 2.4
CYP2E1	Chlorzoxazone 6-hydroxylation	500	132 ± 12
CYP3A4/5	Testosterone 6β-hydroxylation	250	176
CYP3A4/5	Midazolam 1'-hydroxylation	30	24.3
UGT	7-Hydroxycoumarin glucuronidation	100	408 ± 3
SULT	7-Hydroxycoumarin sulfonation	100	28.1 ± 1.1

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), UDP-glucuronosyl transferase (UGT) and sulfotransferase (SULT) activities, hepatocytes (1 x 10^6 /mL) in suspension were incubated in triplicate at 37 ± 1°C for 30 minutes in Krebs-Henseleit buffer 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

Gender:	Female
Age:	72 years of age
Race:	Asian
Cause of Death:	Cerebrovascular Accident
Cytomegalovirus (CMV):	Positive

All donors tested negative for Human Immunodeficiency Virus (HIV), Hepatitis B Surface Antigen (HBsAg), Hepatitis C Virus, and Rapid Plasma Reagin.

Store in liquid nitrogen, vapor phase

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

Datasheet prepared 24 January 2019