

H1500.H15B Lot No. HC4-24

Cryopreserved Human Hepatocytes Human, Female, Individual

Assured Minimum Yield: 4.0 x 10⁶ cells per vial

Viability: 75%

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

Enzyme	Marker Substrate Reaction	[S] (µM)	Rate (pmol/million cells/min)
CYP1A2	Phenacetin O-dealkylation	100	14.5 ± 1.5
CYP2A6	Coumarin 7-hydroxylation	50	17.9 ± 3.5
CYP2B6	Bupropion hydroxylation	500	14.7 ± 0.6
CYP2C8	Amodiaguine N-dealkylation	20	123 ± 23
CYP2C9	Diclofenac 4'-hydroxylation	100	155 ± 20
CYP2C19	S-Mephenytoin 4'-hydroxylation	400	23.7 ± 4.1
CYP2D6	Dextromethorphan O-demethylation	80	52.3 ± 8.0
CYP2E1	Chlorzoxazone 6-hydroxylation	500	20.8 ± 3.0
CYP3A4/5	Testosterone 6β-hydroxylation	250	186 ± 39
CYP3A4/5	Midazolam 1'-hydroxylation	30	71.3
UGT	7-Hydroxycoumarin glucuronidation	100	380 ± 41
SULT	7-Hydroxycoumarin sulfonation	100	12.5 ± 0.2

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 \pm 1°C for 30 minutes in Optilncubate 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: 22 years of age Race: Caucasian

Cause of Death: Cerebrovascular accident

Antibody to Cytomegalovirus (CMV): Negative

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.

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Datasheet prepared 24 January 2019