

CryostaX

Single Freeze Cryopreserved Human Hepatocytes

HP1500.HP Lot No. H1444

Human, Female, Individual

5.0 x 10⁶ cells per vial **Assured Minimum Yield:**

88% Viability:

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 ± 1.9
CYP2A6	Coumarin 7-hydroxylation	50	29.4 ± 6.5
CYP2B6	Bupropion hydroxylation	500	77.9 ± 4.8
CYP2C8	Amodiaguine N-dealkylation	20	369 ± 18
CYP2C9	Diclofenac 4'-hydroxylation	100	150 ± 13
CYP2C19	S-Mephenytoin 4'-hydroxylation	400	17.5 ± 1.1
CYP2D6	Dextromethorphan O-demethylation	80	83.2 ± 3.0
CYP2E1	Chlorzoxazone 6-hydroxylation	500	135 ± 29
CYP3A4/5	Testosterone 6β-hydroxylation	250	127 ± 17
CYP3A4/5	Midazolam 1'-hydroxylation	30	8.19 ± 1.14
UGT	7-Hydroxycoumarin glucuronidation	100	464 ± 30
SULT	7-Hydroxycoumarin sulfonation	100	13.2 ± 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 106 /mL) in suspension were incubated in triplicate at 37 ± 2°C for 30 minutes in Opti Incubate 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: 50 years of age Race: Caucasian Cause of Death: Head Trauma Antibody to 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.

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