

CryostaX

Single Freeze Cryopreserved Human Hepatocytes

HP1000.HP Lot No. H1426

Human, Male, Individual

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

89% 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	21.6 ± 2.3
CYP2A6	Coumarin 7-hydroxylation	50	115 ± 13
CYP2B6	Bupropion hydroxylation	500	162 ± 2
CYP2C8	Amodiaguine N-dealkylation	20	522 ± 27
CYP2C9	Diclofenac 4'-hydroxylation	100	312 ± 8
CYP2C19	S-Mephenytoin 4'-hydroxylation	400	2.06 ± 0.13
CYP2D6	Dextromethorphan O-demethylation	80	58.6 ± 3.5
CYP2E1	Chlorzoxazone 6-hydroxylation	500	59.9 ± 6.2
CYP3A4/5	Testosterone 6β-hydroxylation	250	274 ± 12
CYP3A4/5	Midazolam 1'-hydroxylation	30	38.9 ± 1.3
UGT	7-Hydroxycoumarin glucuronidation	100	484 ± 97
SULT	7-Hydroxycoumarin sulfonation	100	34.5 ± 4.1

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: Male

Age: 57 years of age Race: Caucasian Cause of Death: Anoxia 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.

These data were generated by and are the property of XenoTech. These data are not to be reproduced, published or distributed without the express written consent of XenoTech

Datasheet prepared 14 January 2021