

CryostaX

Single Freeze Cryopreserved Human Hepatocytes

HP1000.HP Lot No. H1449

Human, Male, Individual

Assured Minimum Yield: Viability:

5.0 x 10⁶ cells per vial 89%

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	11.9 ± 2.1
CYP2A6	Coumarin 7-hydroxylation	50	86.8 ± 10.4
CYP2B6	Bupropion hydroxylation	500	85.8 ± 17.8
CYP2C8	Amodiaguine N-dealkylation	20	522 ± 28
CYP2C9	Diclofenac 4'-hydroxylation	100	300 ± 18
CYP2C19	S-Mephenytoin 4'-hydroxylation	400	5.52 ± 0.56
CYP2D6	Dextromethorphan O-demethylation	80	87.6 ± 4.2
CYP2E1	Chlorzoxazone 6-hydroxylation	500	82.1 ± 13.7
CYP3A4/5	Testosterone 6β-hydroxylation	250	93.6 ± 35.9
CYP3A4/5	Midazolam 1'-hydroxylation	30	11.2 ± 1.4
UGT	7-Hydroxycoumarin glucuronidation	100	533 ± 25
SULT	7-Hydroxycoumarin sulfonation	100	15.1 ± 0.7

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 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:	Male		
Age:	61 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.			



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 14 January 2021