

CryostaX

Single Freeze Cryopreserved Human Hepatocytes

## HP1000.HP Lot No. H1424

Human, Male, Individual

Assured Minimum Yield: Viability:

5.0 x 10<sup>6</sup> cells per vial 91%

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	130 ± 7
CYP2A6	Coumarin 7-hydroxylation	50	105 ± 16
CYP2B6	Bupropion hydroxylation	500	21.4 ± 0.5
CYP2C8	Amodiaquine <i>N</i> -dealkylation	20	258 ± 4
CYP2C9	Diclofenac 4'-hydroxylation	100	193 ± 4
CYP2C19	S-Mephenytoin 4'-hydroxylation	400	50.2 ± 3.3
CYP2D6	Dextromethorphan O-demethylation	80	23.8 ± 1.1
CYP2E1	Chlorzoxazone 6-hydroxylation	500	42.8
CYP3A4/5	Testosterone 6β-hydroxylation	250	221 ± 23
CYP3A4/5	Midazolam 1'-hydroxylation	30	31.5 ± 0.7
UGT	7-Hydroxycoumarin glucuronidation	100	289 ± 34
SULT	7-Hydroxycoumarin sulfonation	100	25.3 ± 1.2

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<sup>6</sup> /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:	36 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.

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