

CryostaX

Single Freeze Cryopreserved Human Hepatocytes

## HP1500.HP Lot No. H1430

Human, Female, Individual

Assured Minimum Yield: Viability:

5.0 x 10<sup>6</sup> cells per vial 85%

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

Marker Substrate Reaction	[S] (µM)	Rate (pmol/million cells/min)
Phenacetin O-dealkylation	100	36.8 ± 1.6
Coumarin 7-hydroxylation	50	94.8 ± 6.2
Bupropion hydroxylation	500	$69.3 \pm 0.9$
Amodiaquine N-dealkylation	20	351 ± 82
Diclofenac 4'-hydroxylation	100	168 ± 26
S-Mephenytoin 4'-hydroxylation	400	$42.6 \pm 0.7$
Dextromethorphan O-demethylation	80	20.4
Chlorzoxazone 6-hydroxylation	500	316 ± 35
	250	298 ± 5
	30	95.8 ± 4.3
7-Hydroxycoumarin glucuronidation	100	459 ± 22
7-Hydroxycoumarin sulfonation	100	15.9 ± 2.3
	Phenacetin O-dealkylation Coumarin 7-hydroxylation Bupropion hydroxylation Amodiaquine <i>N</i> -dealkylation Diclofenac 4'-hydroxylation S-Mephenytoin 4'-hydroxylation Dextromethorphan O-demethylation Chlorzoxazone 6-hydroxylation Testosterone 6β-hydroxylation Midazolam 1'-hydroxylation 7-Hydroxycoumarin glucuronidation	Phenacetin O-dealkylation100Coumarin 7-hydroxylation50Bupropion hydroxylation500Amodiaquine N-dealkylation20Diclofenac 4'-hydroxylation100S-Mephenytoin 4'-hydroxylation400Dextromethorphan O-demethylation80Chlorzoxazone 6-hydroxylation500Testosterone 6 $\beta$ -hydroxylation307-Hydroxycoumarin glucuronidation100

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:	Female
Age:	21 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.	



## 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