

## **CryostaX**

Single Freeze Cryopreserved Human Hepatocytes

## HP1500.HP Lot No. H1415

Human, Female, Individual

5.0 x 10<sup>6</sup> cells per vial **Assured Minimum Yield:** 

86% 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	64.7 ± 1.6
CYP2A6	Coumarin 7-hydroxylation	50	12.2 ± 1.3
CYP2B6	Bupropion hydroxylation	500	12.8 ± 0.5
CYP2C8	Amodiaguine N-dealkylation	20	222 ± 21
CYP2C9	Diclofenac 4'-hydroxylation	100	294 ± 2
CYP2C19	S-Mephenytoin 4'-hydroxylation	400	$60.0 \pm 1.2$
CYP2D6	Dextromethorphan O-demethylation	80	72.7 ± 10.8
CYP2E1	Chlorzoxazone 6-hydroxylation	500	$64.1 \pm 4.3$
CYP3A4/5	Testosterone 6β-hydroxylation	250	550 ± 18
CYP3A4/5	Midazolam 1'-hydroxylation	30	$46.2 \pm 2.4$
UGT	7-Hydroxycoumarin glucuronidation	100	487 ± 48
SULT	7-Hydroxycoumarin sulfonation	100	18.2 ± 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 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: 45 years of age Race: Caucasian

Cause of Death: Cerebrovascular Accident

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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Datasheet prepared 14 January 2021