

## H1000.H15C Lot No. HC7-31

Cryopreserved Human Hepatocytes Human, Male, Individual

Assured Minimum Yield: 6.0 x 10<sup>6</sup> cells per vial

Viability: 77%

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	37.3 ± 2.1
CYP2A6	Coumarin 7-hydroxylation	50	20.1 ± 1.9
CYP2B6	Bupropion hydroxylation	500	13.2 ± 1.6
CYP2C8	Amodiaquine N-dealkylation	20	327 ± 30
CYP2C9	Diclofenac 4'-hydroxylation	100	281 ± 20
CYP2C19	S-Mephenytoin 4'-hydroxylation	400	29.7 ± 1.0
CYP2D6	Dextromethorphan O-demethylation	80	131 ± 1
CYP2E1	Chlorzoxazone 6-hydroxylation	500	57.5 ± 1.6
CYP3A4/5	Testosterone 6β-hydroxylation	250	273 ± 12
CYP3A4/5	Midazolam 1'-hydroxylation	30	14.5 ± 2.2
UGT	7-Hydroxycoumarin glucuronidation	100	482 ± 43
SULT	7-Hydroxycoumarin sulfonation	100	23.6 ± 1.5

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  $10^6$  /mL) in suspension were incubated in triplicate at 37  $\pm$  1°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:33 years of ageRace:Caucasian

Cause of Death: Cerebrovascular Accident

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.

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Datasheet prepared 09 April 2019