

## H1500.H15C Lot No. HC1-10

Cryopreserved Human Hepatocytes Human, Female, Individual

Assured Minimum Yield: 6.0 x 10<sup>6</sup> cells per vial Average Yield 6.96 x 10<sup>6</sup> cells per vial

Average Viability: 74.2%

Yield and viability are based on experiments performed at XenoTech using XenoTech's thawing protocol and K2000 Hepatocyte Isolation Kit.

Enzyme	Marker Substrate Reaction	[S] (µM)	Rate (pmol/million cells/min)
CYP1A2	Phenacetin O-dealkylation	100	85.5 ± 1.2
CYP2A6	Coumarin 7-hydroxylation	50	81.1 ± 1.9
CYP2B6	Bupropion hydroxylation	500	67.0 ± 2.6
CYP2C8	Amodiaquine N-dealkylation	20	244 ± 7
CYP2C9	Diclofenac 4'-hydroxylation	100	241 ± 12
CYP2C19	S-Mephenytoin 4'-hydroxylation	400	$5.68 \pm 0.39$
CYP2D6	Dextromethorphan O-demethylation	80	24.7 ± 0.7
CYP2E1	Chlorzoxazone 6-hydroxylation	500	158 ± 0
CYP3A4/5	Testosterone 6β-hydroxylation	250	528 ± 9
CYP3A4/5	Midazolam 1'-hydroxylation	30	87.2 ± 1.5
UGT	7-Hydroxycoumarin glucuronidation	100	794 ± 60
SULT	7-Hydroxycoumarin sulfonation	100	17.8 ± 1.0

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 Krebs-Henseleit buffer 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:FemaleAge:75 yearsRace:Caucasian

Cause of Death: Cerebrovascular accident

Cytomegalovirus (CMV):

Human Immunodeficiency Virus (HIV):

Hepatitis B Surface Antigen (HbsAg):

Antibody to Hepatitis C Virus (HCV):

Negative

Negative



## 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 23 December 2014