

H1000.H15B+ Lot No. HC2-25

Cryopreserved Human Hepatocytes Human, Male, Individual

Assured Minimum Yield: 4.0 x 10⁶ cells per vial

Viability: 86.5%

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	8.10 ± 0.48
CYP2A6	Coumarin 7-hydroxylation	50	25.3 ± 7.5
CYP2B6	Bupropion hydroxylation	500	105 ± 18
CYP2C8	Amodiaguine N-dealkylation	20	191 ± 15
CYP2C9	Diclofenac 4'-hydroxylation	100	159 ± 13
CYP2C19	S-Mephenytoin 4'-hydroxylation	400	0.667 ± 0.095
CYP2D6	Dextromethorphan O-demethylation	80	26.9 ± 3.1
CYP2E1	Chlorzoxazone 6-hydroxylation	500	167 ± 8
CYP3A4/5	Testosterone 6β-hydroxylation	250	137 ± 16
CYP3A4/5	Midazolam 1'-hydroxylation	30	54.9 ± 2.1
UGT	7-Hydroxycoumarin glucuronidation	100	1350 ± 210
SULT	7-Hydroxycoumarin sulfonation	100	39.8 ± 6.8

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 $37 \pm 1^{\circ}$ 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: Male

Age: 58 years of age

Race: Hispanic

Cause of Death: Cerebrovascular Accident

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.

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 24 January 2019

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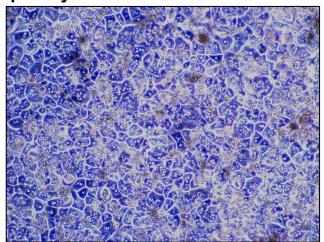
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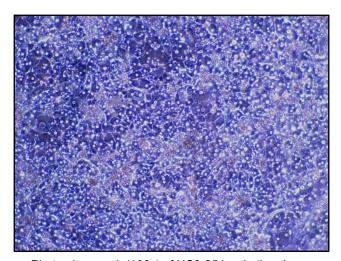
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Hepatocyte Cell Culture





Photomicrograph (100x) of HC2-25 Day 2 of culture

Photomicrograph (100x) of HC2-25 incubation day

Recommended Seeding					
	Density	Recommended Seeding/			
Plate Format	(million cells/mL)	Feeding Volume Per Well			
6-well format	1.2	1.7 mL			
12-well format	1.2	650 μL			
24-well format	1.2	330 µL			
48-well format	0.75	200 μL			
96-well format	N	lot Tested			

Induction Data					
Enzyme	Prototypical Inducer	Marker substrate reaction	Fold Induction*		
CYP1A2 CYP2B6 CYP3A4	Omeprazole (100 μM) Phenobarbital (750 μM) Rifampin (10 μM)	Phenacetin <i>O</i> -dealkylation Bupropion hydroxylation Testosterone 6β-hydroxylation	19.0 5.93 3.71		
*Refers to the in-	crease in pmol metabolite formed when co	ompared to control.			

