

CryostaX

Single Freeze Plateable Cryopreserved Human Hepatocytes

HP1500.HP+ Lot No. H1211

Cryopreserved Human Hepatocytes Human, Female, Individual

Assured Minimum Yield: 5.0 x 10⁶ cells per vial

Viability: 94%

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	20.8 ± 2.1
CYP2A6	Coumarin 7-hydroxylation	50	11.0 ± 1.2
CYP2B6	Bupropion hydroxylation	500	27.1 ± 3.1
CYP2C8	Amodiaquine N-dealkylation	20	167 ± 9
CYP2C9	Diclofenac 4'-hydroxylation	100	206 ± 9
CYP2C19	S-Mephenytoin 4'-hydroxylation	400	20.0 ± 3.2
CYP2D6	Dextromethorphan O-demethylation	80	73.1 ± 6.1
CYP2E1	Chlorzoxazone 6-hydroxylation	500	552 ± 72
CYP3A4/5	Testosterone 6β-hydroxylation	250	19.7 ± 3.8
CYP3A4/5	Midazolam 1'-hydroxylation	30	6.31 ± 1.18
UGT	7-Hydroxycoumarin glucuronidation	100	582 ± 9
SULT	7-Hydroxycoumarin sulfonation	100	16.1 ± 1.1

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 2°C for 30 minutes in Williams E+ 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: Female

Age:9 years of ageRace:CaucasianCause of Death:AnoxiaAntibody 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 16 June 2021

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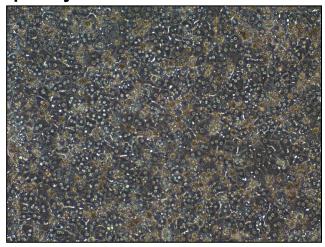
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Hepatocyte Cell Culture



Photomicrograph (100x) of H1211 Day 3 of culture



Photomicrograph (100x) of H1211 incubation day

Recommended Seeding						
	Density	Recommended Seeding/				
Plate Format	(million cells/mL)	Feeding Volume Per Well				
6-well format	1.4	1.7 mL				
12-well format	1.4	650 µL				
24-well format	1.4	330 µL				
48-well format	0.75	200 μL				
96-well format	0.75	75 µL				

Induction Data

Enzyme	Inducer	mRNA Fold Induction	Marker Substrate Reaction	Enzymatic Fold Induction
CYP1A2	Omeprazole (50 µM)	30.1	Phenacetin O-dealkylation	29.4
CYP2B6	Phenobarbital (750 µM)	5.8	Bupropion hydroxylation	5.7
CYP2B6	CITCO (100 nM)	8.0	Bupropion hydroxylation	5.9
CYP3A4	Rifampin (20 µM)	3.2	Midazolam 1'-hydroxylation	4.7