XENOTECH
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DATA SHEET

H1500.H15T Lot No. 512

Cryopreserved Human Hepatocytes

Donor Information

Demographics		Serology	
Gender:	Female	**CMV:**	(-)
Age:	62 Years	**HIV:**	(-)
Race:	Caucasian	**HBV:**	(-)
Cause of Death:	Anoxia	**HCV:**	(-)

Assured Minimum Yield: 4.0 x 10^6 per vial
Viability: 92.0%

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

Transporter[1]	**Marker substrate uptake (pmol/million cells/min)**[2§]	
OATP	Estrone-3-sulfate	47 ± 13
NTCP	Taurocholic Acid	5.5 ± 1.4
OCT1	1-Methyl-4-phenylpyridinium Iodine	18 ± 6

Enzyme	**Marker substrate reaction (pmol/million cells/min)**	
CYP2D6	Dextromethorphan *O*-demethylation	66.8
CYP2E1	Chlorzoxazone 6-hydroxylation	86.9
CYP3A4/5	Testosterone 6β-hydroxylation	43.7
UGT	Glucuronidation of 4-Methylumbelliferone	366

[1] OATP (Organic Anion Transporting Polypeptide), NTCP (Sodium Taurocholate Co-transporting Polypeptide), OCT1 (Organic Cation Transporter)

[2] Data reflect mean and standard deviation from three separate assays performed on three separate days.

[§] Characterization based on methods described in: Hallifax D and Houston JB (2006) Uptake and intracellular binding of lipophilic amine drugs by isolated rat hepatocytes and implications for prediction of in vivo metabolic clearance. Drug Metabolism and Diposition 34:1829-1836.

CAUTION: These hepatocyte samples are from donors who tested negative for HIV and hepatitis. However, we recommend that these samples be considered as potential biohazards and that universal precautions be used when working with human derived products.

Store vials in liquid nitrogen, vapor phase.

Data sheet prepared 4/21/09

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