

# **CryostaX**

Single Freeze Pooled Plateable Cryopreserved Human Hepatocytes

## HPCH05+

# Lot No. 2110283

Pool of 5

Assured Minimum Yield:5.0 x 106 cells per vialViability:88%Recommended Seeding Density1.3 million cells per mL

nillion cells/min)
± 0.48
± 2.06
± 1.6
± 0.95
± 0.12
± 1.9
± 1.7
± 29
± 1.9

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, cultured human hepatocytes (~ 20 hours post plating) were incubated in triplicate at  $37 \pm 2$  °C for 30 or 45 minutes (substrate dependent) in OptiIncubate 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: Age: Race: Cause of Death: Antibody to Cytomegalovirus (CMV): Human Immunodeficiency Virus (HIV): Hepatitis B Surface Antigen (HbsAg): Antibody to Hepatitis C Virus (HCV): Males (2), Female (3) 19-66 years of age Caucasian (5) Head trauma (3), Cerebrovascular accident (1), Anoxia (1) Positive (3), Negative (2) Negative (5) Negative (5) Negative (5)



### 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 28 October 2021

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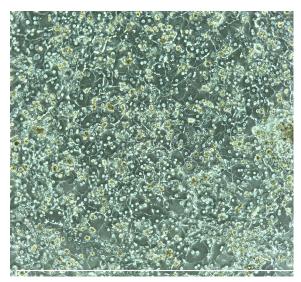
Pool of 5

Assured Minimum Yield:	5.0 x 10 <sup>6</sup> cells per vial
Viability:	88%
Recommended Seeding Density	1.3 million cells per mL

Uptake Transporter	Marker Substrate	[S] (µM)	Uptake Ratio
OATP1B1	Estrone sulfate	0.1	6.49
OATP1B3	CCK-8	0.1	3.39
OCT1	MPP+	0.1	7.25
NTCP	TCA	0.1	13.1

To measure uptake activities in cultured human hepatocytes (~4 hours post plating), hepatocytes were incubated in triplicate at 37 ± 2°C for 1 minute in Optilncubate Media and marker substrate, at the final concentrations indicated. Uptake was determined by liquid scintillation counter. Protein determinations were performed post incubation via isolation of microsomal fractions and protein measurements using the Pierce BCA assay.

Uptake ratio refers to the difference between uptake activities between trace substrate and excess substrate.



Lot 2110283 on Day 4 of culture

Plate Format	Recommended Seeding Density (million cells/mL)	Recommended Seeding/ Feeding Volume Per Well
6-well format	1.3	1.7 mL
12-well format	1.3	650 µL
24-well format	1.3	330 µL
48-well format	0.75	200 µL
96-well format	0.75	75 µL

