XENOTECH
A BioIVT Company

Data Sheet

CryostaX

Single Freeze Pooled Cryopreserved Beagle Dog Hepatocytes

DPCH1000 Lot No. 2010202

Male, Pool of 3

Assured Minimum Yield:	5.0 x 10^6 cells per vial
Viability:	80%

Livers were perfused and subjected to collagenase digestion for the purpose of hepatocyte isolation. Yield and viability are based on experiments performed at Sekisui XenoTech using Sekisui XenoTech's thawing protocol and K8000 OptiThaw Hepatocyte Kit.

Enzyme Activities		***Rate***
7-Ethoxycoumarin *O*-dealkylation	(pmol/million cells/min)	359 ± 32
7-Hydroxycoumarin glucuronidation	(pmol/million cells/min)	95.6 ± 10.3
7-Hydroxycoumarin sulfonation	(pmol/million cells/min)	74.3 ± 4.7

Values for enzyme activities were determined at a single substrate concentration and are mean ± standard deviation of three or more determinations.

To measure metabolic enzyme activities, hepatocytes (1 x 10^6 /mL) in suspension were incubated in triplicate at 37 ± 2°C for 30 minutes in Opti^{INCUBATE} medium and 7-ethoxycoumarin (500 µM). Metabolite formation was determined by validated LC-MS/MS methods with deuterated metabolites as internal standards.

Animal Information

Species:	Dog
Strain:	Beagle
Sex:	Male
Age:	Sexually Mature
Vendor:	Covance, Cumberland, VA

Animals were housed in an AAALAC-accredited facility and allowed to acclimate ≥ seven days before use.

Food:	Nutrena (*ad libitum*)
Water:	Automatic watering system, tap water (*ad libitum*)
Light/dark cycle:	Not monitored
Temperature:	Ranges from 62°F to 82°F
Humidity:	Not monitored
Cage:	Indoor/outdoor run cages, plastic coated rod bottom, sanitized at least every 2 weeks

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.

Datasheet prepared 23 September 2020