

Cryopreserved Hepatocytes

With activity equivalent to that of freshly isolated hepatocytes, cryopreserved hepatocytes from BioreclamationIVT let you conduct your experiments when you want to. Hepatocytes are isolated and cryopreserved on the same day. Cryopreserved hepatocytes typically are used to study both phase I and phase II metabolism.

Features and Benefits

- **Convenience.** No waiting for fresh tissue
- **Testing.** Characterized for a wide range of enzyme activities
- **Reproducibility.** Long shelf life allows multiple experiments at different times from a single donor
- **Ready to Use.** Thaw and use when you're ready
- **Quality.** Cells have >80% viability

Cryopreserved hepatocytes contain a range of metabolizing enzymes which are useful for conducting metabolic pathway identification experiments as stated in the FDA Guidance.*

* Drug Interaction Studies - Study Design, Data Analysis, and Implications for Dosing and Labeling Recommendations (draft): Guidance for Industry, FDA, September 2012.

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Available Species

Human	Marmoset monkey
Sprague-Dawley [®] ™ rat	Beagle dog
Wistar rat	Göttingen minipig
ICR/CD-1 [®] mouse	New Zealand white rabbit
Cynomolgus monkey	Dunkin-Hartley guinea pig
Han Wistar rat	C57BL6 mouse
BALB/c mouse	Rhesus monkey

BioreclamationIVT can also prepare custom orders of cryopreserved hepatocytes from other species not found on this list. Custom sizes are also available. To receive a quote for custom orders, contact IVTProductsRequest@bioreclamationivt.com.

Technical Information

Stability: Stable for 5 years at $\leq -150^{\circ}\text{C}$

Storage: $\leq -150^{\circ}\text{C}$

Species	Assay	Enzyme
Animal and Human Hepatocytes	7-ethoxycoumarin	Coupled phase I & II metabolism
Animal and Human Hepatocytes	7-hydroxycoumarin	ST
Animal and Human Hepatocytes	7-hydroxycoumarin	UGT
Human Hepatocytes	phenacetin	CYP1A2
Human Hepatocytes	coumarin	CYP2A6
Human Hepatocytes	amodiaquine	CYP2C8
Human Hepatocytes	tolbutamide	CYP2C9
Human Hepatocytes	S-mephenytoin	CYP2C19
Human Hepatocytes	dextromethorphan	CYP2D6
Human Hepatocytes	chlorzoxazone	CYP2E1
Human Hepatocytes	testosterone	CYP3A4
Animal and Human Hepatocytes	Trypan Blue [™] exclusion	NA

Human cryopreserved hepatocytes are genotyped for the following: NAT1, NAT2, CYP2C9, CYP2C19, and CYP2D6. Donor demographics and medical histories are provided.

BioreclamationIVT recommends the use of *InVitroGRO*[™] HT medium and *Torpedo*[™] Antibiotic Mix for thawing cryopreserved hepatocytes.



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