

What makes the
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the X Factor

The X Factor in

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Xenotech LLC, USA is a
leading world player for
ADMET products.

Xenotech LLC is now
part of Sekisui, Japan



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XENOTECH
Innovative Science | Uncommon Service

ADMET Testing Systems

Subcellular Fractions

Xenotech standard products feature subcellular fractions from several different tissues (lung, kidney, intestine, and liver) and a variety of toxicologically-relevant species including: human, monkey, dog, rabbit, guinea pig, rat, hamster, and mouse.

- Microsomes
- Mitochondria
- S9
- Reaction Phenotyping Kit
- Cytosol

Microsomes

XenoTech carries a large variety of microsomes from toxicologically relevant species: Human, Monkey, Dog, Rat, Mouse, Rabbit, Guinea Pig, Hamster and Mini-pig. Liver microsomes (endoplasmic reticulum) are supplied at a concentration of 20 mg/mL, suspended in 250 mM sucrose. This useful *in vitro* test system contains cytochromes P450, flavin-monoxygenases, carboxylesterases, epoxide hydrolase, UDP-glucuronosyltransferases and other drug-metabolizing enzymes.

S9

The S9 fraction (post-mitochondrial supernatant fraction) is a mixture of microsomes and cytosol. Accordingly, it contains a wide variety of phase I and phase II enzymes including P450 enzymes, flavin-monoxygenases, carboxylesterases, epoxide hydrolase, UDP glucuronosyltransferases, sulfotransferases, methyltransferases, acetyltransferases, glutathione S-transferases and other drug-metabolizing enzymes. XenoTech carries a large variety of S9 from toxicologically relevant species: Human, Primate, Dog, Rat, Mouse, Rabbit, Guinea Pig, Hamster and Mini-pig.

Cytosol

Human liver cytosol (the soluble fraction) contains many xenobiotic metabolizing enzymes including carboxylesterases, soluble epoxide hydrolases, alcohol dehydrogenases, aldehydes oxidases, xanthine oxidases, diamine oxidases, sulfotransferases, glutathione S-transferases, etc. XenoTech prepare cytosol from toxicologically relevant species: Human, Primate, Dog, Rat, Mouse, Rabbit, Guinea Pig, Hamster and Mini-pig.

Mitochondria

Human liver mitochondria contain monoamine oxidases A and B (MAO A and B), aldehyde dehydrogenases and other xenobiotic-metabolizing enzymes. Human liver mitochondria are supplied at a standard concentration of 20 mg/mL in 50 mM TRIS+HCl (pH 7.4 at 4°C) containing 150 mM KCl and 2 mM EDTA. Donor information is included with each order. This product is intended for *in vitro* studies of xenobiotic metabolism.

Reaction Phenotyping Kit

The Reaction Phenotyping Kit (RPK), Catalog number H0500, is designed to identify the human liver CYP enzyme(s) responsible for metabolizing a drug (or other xenobiotic), in order to predict pharmacokinetic variability, which can occur when a drug is metabolized by a polymorphically-expressed CYP enzyme. Samples in the kit are carefully selected to minimize correlations and avoid outliers that can interfere with reliable results.

Hepatocytes/Media

- Fresh Human Hepatocytes
- Inducing Cryopreserved Human Hepatocytes
- Cryopreserved Dog Hepatocytes
- Cryopreserved Rat Hepatocytes
- Hepatocyte Media/Kits
- Cryopreserved Human Hepatocytes
- Cryopreserved Primate Hepatocytes
- Cryopreserved Rabbit Hepatocytes
- Cryopreserved Mouse Hepatocytes



KRISHGEN BioSystems

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Cryopreserved Human Hepatocytes

XenoTech's cryopreserved human hepatocytes come in Assured Minimum Yield (AMY) Categories, so you can choose the number of viable cells that you need for your experiment.

Cryopreserved Primate Hepatocytes

Upon thawing, cryopreserved monkey hepatocytes remain viable and may be used in suspension for short-term drug metabolism experiments (we recommend incubations no longer than 6 hours). When cryopreserved monkey hepatocytes are thawed, isolated, and suspended under appropriate conditions, they can be used to evaluate the metabolism of drugs and NMEs.

Cryopreserved Dog Hepatocytes

Upon thawing, cryopreserved Beagle Dog hepatocytes remain viable and may be used in suspension for short-term drug metabolism experiments (we recommend incubations no longer than 6 hours). When cryopreserved Beagle Dog hepatocytes are thawed, isolated, and suspended under appropriate conditions, they can be used to evaluate the metabolism of drugs and NMEs.

Cryopreserved Rabbit Hepatocytes

Upon thawing, cryopreserved rabbit hepatocytes remain viable and may be used in suspension for short-term drug metabolism experiments (we recommend incubations no longer than 6 hours). When cryopreserved rabbit hepatocytes are thawed, isolated, and suspended under appropriate conditions, they can be used to evaluate the metabolism of drugs and NMEs.

Cryopreserved Mouse Hepatocytes

Upon thawing, cryopreserved mouse hepatocytes remain viable and may be used in suspension for short-term drug metabolism experiments (we recommend incubations no longer than 6 hours). When cryopreserved mouse hepatocytes are thawed, isolated, and suspended under appropriate conditions, they can be used to evaluate the metabolism of drugs and NMEs.

Cryopreserved Rat Hepatocytes

Upon thawing, cryopreserved rat hepatocytes remain viable and attach reliably to cell culture dishes in a manner similar to that observed with freshly isolated rat hepatocytes. When cultured under appropriate conditions, these cryopreserved hepatocytes can be used to evaluate drugs and NMEs as inducers of CYP enzymes. In addition, in vitro results on cryopreserved Sprague Dawley rat hepatocytes yield excellent correlation with in vivo results.

Hepatocyte Media/Kits

HEPATOCYTE INCUBATION KIT - K2500

50 mL of phenol red free Waymouths media Supplemented with the following:
i) Dexamethasone ii) Fetal Bovine Serum iii) Insulin iv) Na⁺ Pyruvate v) L-Glutamine

Hepatocyte isolation kits

These kits make thawing and isolation a snap. Everything you need to prepare your cryopreserved hepatocytes for use.

HEPATOCYTE RE-SUSPENSION MEDIA - K2200

When plating XenoTech's Inducible Cryopreserved Human Hepatocytes, it is necessary to resuspend the cell pellet in supplemented DMEM before putting cells in culture media. 40 mL per tube.

HEPATOCYTE CULTURE MEDIA - K2300

Supplemented Modified Chee's Medium, for plating/feeding Inducible Cryopreserved Human Hepatocytes, and recommended for use with fresh human hepatocytes. 100mL per bottle.



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