



Comprehensive ADME Product Portfolio

ADME-TOX PRODUCTS





Your Partner For ADME Studies

BioIVT is the global leader in providing products for *in vitro* ADME research. We pioneered the cell isolation and cryopreservation techniques used in the industry and continue to set the standard for hepatocytes, subcellular fractions, and recombinant enzymes. We offer proprietary technologies, including pooled hepatocyte products, and long-term cultures, as part of our comprehensive portfolio, and our R&D efforts focus on application development.

Our commitment to innovation, quality, and supply chain logistics has led to our reputation as the best-in-class provider. We offer:

- Large lot sizes
- Full characterization
- Extensive inventory
- Technical support from ADME scientists



*“Our laser focus on ADME products has enabled us to build a portfolio that can support every *in vitro* program and study design. And even more importantly, our clients have access to experts at BioIVT who can help them pick lots that meet their specifications, advise on culture techniques, and support them through their programs.”*

Dr. Chris Black, Senior VP, ADME Tox

Leading the Industry

BioIVT has been the leading provider of ADME products for more than 25 years. In that time, we have isolated hepatocytes from several thousand human livers and continue to add several hundred new lots each year. Additionally, we have regularly-scheduled cell isolations to make hepatocytes and subcellular fractions for all major preclinical species.

Our high capacity and extensive inventory ensure you will have access to lots with the characteristics you need, in sufficient quantities to complete a course of study with the same lot or lots.

Product Portfolio

Cryoplateable and Cryosuspension Hepatocytes:

Highly characterized human and animal hepatocytes.
Human | NHP | Rat | Mouse | Dog, and more

LIVERPOOL® Cryoplateable and Cryosuspension Hepatocytes:

Single-donor lots that are pooled to create large lots with specific characteristics. Standard and custom multi-donor lots are available.

Human

CryostaX® Hepatocytes:

Pooled and individual-donor lots using CryostaX® 'single-freeze' pellet technology.

Human | NHP | Rat | Dog | Mouse | Rabbit

TRANSPORTER CERTIFIED® Hepatocytes:

Human cryoplateable hepatocytes validated to express physiologically-relevant transporter function.

Human

SPHEROID CERTIFIED™ Hepatocytes:

Human cryoplateable hepatocytes demonstrated to have high functionality in 3D cultures.

Human

Fresh Hepatocytes:

Human and animal hepatocytes available in suspension or plated formats.

Human | NHP | Rat | Mouse | Dog, and more

HEPATOPAC® Kits:

Hepatocyte micro-patterned cultures for long-term exposure studies.

Human | NHP | Rat | Mouse | Dog

HEPATOMUNE® Kits:

Hepatocyte and Kupffer micro-patterned cultures for long-term exposure and inflammation studies.

Human

Kupffer Cells:

Primary human Kupffer cells available in high-purity and standard formats.

Human

Microsomes, S9, and Other Subcellular Fractions:

Single and multi-donor lots available.

Human | NHP | Rat | Mouse | Dog, and more

ACCULIVER™ Kits:

TRANSPORTER CERTIFIED® hepatocytes and media to duplicate BioIVT's experimental conditions for B-CLEAR® and C-DILI™ assays.

Human

TRANSFLEX™ Kits:

Assay-ready transporter plates using OPTI-EXPRESSION™ technology.

Human

BACTOSOMES® and Other Recombinant Enzymes:

CYP, ALDH, AOX, CES, GST, MAO, SULT, and UGT recombinant enzymes for human and common preclinical test species.

Human | NHP | Rat | Mouse | Dog, and more

Other Products:

Tissues, homogenate, organelles, cytosol, hepatocytes, and subcellular fractions from other species available as standard products or as prospective custom collections.

Human | NHP | Rat | Mouse | Dog, and more

Media:

Culture media to support all products and applications.



Rigorous Quality Control Process

Cell Isolation and Extensive Characterization

Hepatocytes are isolated from whole livers and cryopreserved on the day of isolation. BioIVT's advanced techniques enable a high number of vials to be obtained from each donor, contributing to large lot sizes that demonstrate high viability and consistent reproducibility.

Our rigorous quality control process includes extensive evaluation of each lot. Characterization data are provided on easy-to-read certificates of analysis (CoAs). Additionally, BioIVT can implement custom characterization and our experts routinely work with researchers to identify lots that meet their requirements.



Characterization data include:

- Viability
- Yield
- Monolayer Confluency
- P450 Induction
- CYP and UGT Metabolism
- Genotype
- NAS Score

Ready-to-Ship Inventory

At BioIVT, we know that getting the hepatocytes and other ADME products you need, when you need them, is critical to your success. To reduce the shipping time from our facilities to our clients' laboratories, we stage products at our own distribution centers in the US and Europe and we work with distributors across Asia. This approach ensures that products are close to final delivery locations and have already cleared country customs when our clients request them.

As part of our commitment to rapid product delivery, we have made significant investments in cryogenic storage and now have the capacity to store more than one million vials. Additionally, we maintain our own fleet of dewars, making it possible for us to package and ship cells the same day that we receive orders.



A Proven Partner for ADME Research Services

In addition to being the largest supplier of products for *in vitro* ADME studies, BioIVT provides preclinical research services.

Our research labs have access to our unparalleled selection of human and animal hepatocytes, subcellular fractions, and recombinant enzymes. And, depending on our clients' research objectives and the characteristics of their compounds, we can include proprietary technologies such as HEPATOPAC and HEPATOMUNE cultures for low turnover compounds, and TRANSPORTER CERTIFIED hepatocytes to evaluate biliary efflux.

In 2022 XenoTech joined BioIVT, significantly expanding our capabilities and capacity to design and implement preclinical programs that help our clients achieve their R&D objectives.

Our services include:

- Consulting on ADME strategies
- *In vitro* ADME programs including drug metabolism, drug transporters, and enzyme induction and inhibition studies
- *In vivo* ADME and PK studies
- Bioanalysis, integrated into other projects or as standalone studies



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