

Hepatic Products & Research Services for ADME-Tox & Efficacy Evaluations

Portfolio of Products & Services to Advance Your Research

ACCELERATE R&D | GAIN REGULATORY APPROVAL | ACHIEVE COMMERCIAL OBJECTIVES

BioIVT is the leading provider of high-quality hepatic products. For over 25 years, we have set the standard for hepatocytes and offer leading brands including TRANSPORTER CERTIFIEDTM and LIVERPOOL® human hepatocytes. Our product offerings also include INVITROCYPTM human liver microsomes, animal hepatocytes and microsomes and INVITROGROTM hepatocyte media. These research tools are used in *in vitro* hepatic modeling to analyze the ADME-Tox properties of New Chemical Entities (NCEs). Our research services team works collaboratively with clients to implement studies and provide technical expertise and guidance to advance drug development programs.







Safety

Interactions

Excretion

Clearance

Absorption

Toxicity

Distribution

Metabolism



Liver Products & Media

Conduct in vitro studies with the highest quality hepatocytes, homogenate, subcellular fractions and related media



Transporter Products

Determine transporter effects with our assay-ready transporter kits and research services



Custom Products

Rely on our cell culture services and custom products to support cell culture studies



Application Kits

Duplicate the experimental conditions we have optimized



Research Services

Design and implement ADME-Tox research programs

Your Partner for In Vitro Hepatic Research

Target ID & Validation

Lead Selection & Optimization

Preclinical Development







Collaborative Research Services

Whether you need our research expertise for a single study or are looking for a partner for comprehensive lead selection through regulatory submission programs, we take a collaborative approach to your project.

Hepatotoxicity

- Predictive Tox
- Mechanistic Tox
- Cholestatic Hepatotoxicity

Hepatobiliary Disposition

- Intracellular Concentration
- Biliary Disposition / Clearance
- Biliary Interaction

Metabolism

- Metabolite ID
- Metabolic Stability

Drug-Drug Interactions

- CYP ID / Reaction Phenotyping
- **CYP** Induction
- **CYP & Transporter Inhibition**

Transporter Studies

- Single Assay & Multi-Transporter Models
- Regulatory Panels
- **DDI** Panels
- **ADME Panels**
- Safety & Efficacy Panels
- **Drug Target Panels**

Leading Products to Support Your Programs

HEPATOPAC® Kits



Hepatocyte micro-patterned cultures for long-term exposure studies

LIVERPOOL® Hepatocytes



Multi-donor lots of high-quality, cryoplateable and cryosuspension human hepatocytes

TRANSPORTER CERTIFIED™ Hepatocytes



Human hepatocytes validated to express physiologically relevant transporters

Cryoplateable Hepatocytes

And more

Highly-characterized human and animal hepatocytes

Fresh Human & Animal Hepatocytes



Available in suspension or plated formats



INVITROCYP™ Microsomes



Human liver microsomes

Animal Subcellular Fractions

BB00

Liver microsomes and S9

INVITROGRO™ Media



Hepatocyte media and supplements

ACCULIVER™ Kits



Duplicate our experimental conditions for ADME-Tox studies

TRANSFLEX™ PLATES



Assay-ready transporter plates using OPTI-EXPRESSION™ Technology

Custom Products



Human and animal tissue, homogenate, and, subcellular fractions from various species



Hepatic Disease Modeling



NAFLD / NASH & Other Fibrotic Disease

- Access hepatocyte lots collected from donors diagnosed with NAFLD / NASH
- Model drugs designed to moderate bile acid homeostasis
- Recapitulate liver tissue architecture and functionality with ORGANDOT®, our 3D co-culture model



Malaria

 Identify and reserve hepatocyte lots that meet your specifications for malaria model studies



Hepatitis

- Identify and reserve hepatocyte lots that meet your specifications for HBV model studies
- Provide HEPATOPAC® kits for long-term HBV models

Our experienced team will **design, implement,** and **interpret** study results.

IND-Enabling Programs

BioIVT provides comprehensive solutions to develop the strategy, implement studies, and analyze data for all the hepatic investigations required for an IND submission. Submission-ready reports are provided in our template or in our clients' templates.



IND Study Package

- Reaction Phenotyping (i.e. P450 ID)
- CYP Induction
- CYP Inhibition
- Transporter Substrate Study
- Transporter Inhibition Study

IND Products

- Human cyroplateable hepatocytes
- TRANSPORTER CERTIFIED Hepatocytes
- INVITROCYP Human Liver Microsomes
- TRANSFLEX Plates for transporter studies
- Transporter Membranes
- LIVERPOOL Human Hepatocytes

Benefit from Our Team of Hepatic Experts

As part of our commitment to ensuring successful research programs, our staff are available discuss your study programs and offer insights about the hepatic products, *in vitro* models, and strategies that will help you achieve your research objectives.



Discover the wealth of knowledge from our experts on a variety of topics.

Visit **BioIVT.com/experts** to learn more.

Innovative Proprietary Technology

Our scientific teams have developed novel methods and technologies to investigate compounds and predict *in vivo* effects. We apply our technologies in collaborative research programs and make them available in product kits.

B-CLEAR® Technology

Method to quantitate biliary efflux

C-DILI™ Assay

Whole-cell system to evaluate potential for cholestatic hepatotoxicity

HEPATOPAC® Technology

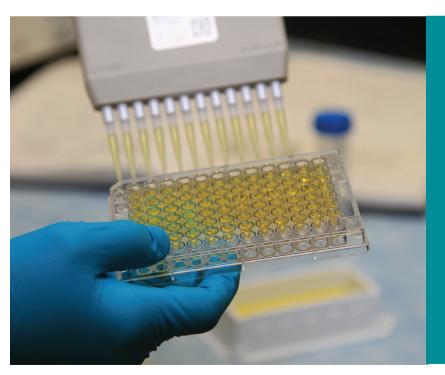
Stable hepatocyte cultures for long-term hepatic studies

OPTI-EXPRESSION™ Technology

Efficient, transient transfection system to create single transporter assays and multi-transporter models

ORGANDOT® Platform

3D tissue culture system



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With novel hepatic technologies, an unparalleled product portfolio, and integrated service teams, you can rely on BioIVT for all your hepatic research needs.



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Tutorials



Webinars



Hepatocyte Characterization Tables



For Inquiries:

North America & Asia Pacific T +1 516 483 1196 F +1 516 483 4683 E customerservice@bioivt.com Europe, Middle East & Africa
T +44 (0) 1444 250010 F +44 (0) 1444 250066
E cseurope@bioivt.com

BioIVT.com