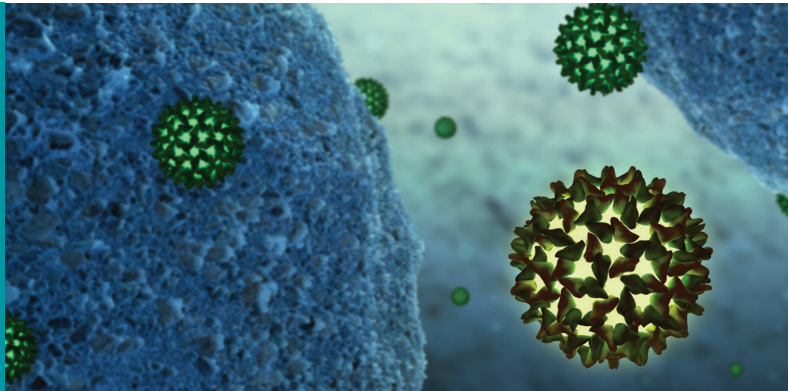


# Hepatic Infectious Disease



## Trusted Supplier of Biological Products for Drug Discovery

BioIVT is the leading provider of normal and disease state human and animal hepatic products for drug research. With over 200 IRB-approved collection sites located around the world, we provide biospecimens from donors with normal tissues and confirmed exposure to a broad variety of infectious diseases and environmental factors. Our extensive specimen collection capabilities enable us to source diseased hepatic tissue and biofluids to support our clients' liver-related research programs.

## Malaria and Hepatitis Disease Models

We are a preferred provider for liver cells used to create *in vitro* models to investigate hepatitis, malaria and other infectious hepatic diseases and to evaluate new therapies. Research scientists in bio-pharmaceutical, academic, government and not-for-profit institutions rely on us to:

- Provide best-in-class and innovative products
- Identify cell lots that meet disease model specifications
- Reserve lots so a course of studies can be completed using the same lot(s)

Leading Hepatocyte Products	
Product	Features
Cryoplateable Human Hepatocytes	Large, highly-characterized lots from diverse donors
TRANSPORTER CERTIFIED® Hepatocytes	Express physiologically-relevant uptake and efflux transporters
HEPATOPAC Kits	Stable <i>in vitro</i> liver models that enable long-term <i>in vitro</i> disease and efficacy studies
Woodchuck Hepatocytes	Effective for the woodchuck HBV model

### HEPATOPAC Model Used to Investigate a Novel HBV Inhibitor

Researchers at Roche Pharmaceutical Research used BioIVT's HEPATOPAC® model to investigate RO6889678, a novel HBV inhibitor. HEPATOPAC cultures were infected with HBV and allowing long-term observations of metabolism, active transport, drug-drug interactions, and enzyme induction. The studies indicate that long-term liver models have great potential as translational research tools for exploring pharmacokinetics of novel drugs in *in vitro* studies. Study results were published in the *Journal of Pharmacology and Experimental Therapeutics*. (Kratochwill N. et. al. (2018) ASPET, 365(2), 237-248.)

## Additional Infectious Disease Experience

Our experience includes supplying biospecimens with confirmed exposure to the following diseases among others:

- |   |                  |                                   |                      |
|---|------------------|-----------------------------------|----------------------|
| <i>C. difficile</i>                       | <i>Ehrlichia</i> | Measles                           | <i>Streptococcus</i> |
| Chagas                                    | <i>Giardia</i>   | <i>Mycoplasma</i>                 | Syphilis             |
| Chikungunya                               | HPV              | <i>Neisseria</i>                  | West Nile Virus      |
| <i>Cryptosporidium</i>                    | HTLV             | <i>Pneumoniae</i>                 | Yellow Fever         |
| Dengue fever                              | <i>H. pylori</i> | <i>Pseudomonas</i>                | Zika                 |
| <i>E. coli</i> and other enteric bacteria | Influenza        | Respiratory Syncytial Virus (RSV) |                      |
|   | Lyme disease     | <i>Rickettsia</i>                 |                      |

## Biofluids to Support Hepatic Infectious Disease Research

Our comprehensive product portfolio includes blood-derived and other biofluids from donors with exposure to the following hepatic-related infectious diseases:

- Malaria
- Hepatitis viruses A, B, C, D, and E
- HIV-1 & HIV-2
- Herpes family viruses (HSV, EBV, CMV, VZV)
- Parvovirus
- Adenovirus

## Immune Cell Isolation from PBMCs

BioIVT isolates PBMCs and cellular subsets from donors with confirmed infectious diseases, including malaria, Hepatitis B & C, HIV 1 & 2, Herpes Simplex Virus 1 & 2.

## Product Collection Customized to Meet Research Needs

Our clients rely on us to provide biofluids tailored to meet their specific research requirements. Our customized collection process can include the following elements:

- Tailored protocols
- Various anticoagulants
- Longitudinal collections
- Specific consent requirements
- Clinical information upon request

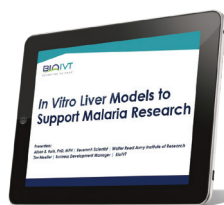
## Sourcing Human Biological Specimens: Ethics and Quality

Our Regulatory and Quality team works with local and centralized US-based IRBs, EU-based IECs, and regulatory bodies in other countries to ensure our collection programs comply with legal requirements and ethical guidelines. We hold a UK HTA license for the storage, use and disposal of human biomaterials. Our commitment to quality and ethical procurement has made us a trusted supply chain partner to our clients.

## For Additional Resources Visit BioIVT.com



White Papers



Webinars



Blogs



Insights from our Experts

MEET THE **BIOIVT** EXPERTS

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## Matrices

### Blood-derived Biofluids

Bone marrow	Plasma
Buffy coat	Platelets
Cord blood	Red blood cells
Dried blood spot card	Serum
Leukopak	Whole blood
Menstrual blood	

### Other Biofluids

Cerebrospinal fluid	Ocular
Dialysate	Reproductive
Gastrointestinal	Respiratory
Nasopharyngeal	

