

Save valuable time and avoid all the tedious steps in virus production for your research. Take advantage of ImQuest BioSciences' production service for your virus stocks.

With expertise gained from years of experience in cell culture and the development of new antiviral agents, we propagate, concentrate, and characterize viruses at scales ranging from milliliters to liters.

Crude and concentrated virus can be further processed including preparation of viral proteins, virus inactivation, and isolation of viral genomic nucleic acids. Whatever your needs, our scientists will customize the production process to your specifications. We offer molecular biology services to complement our virus production services.

Virus Production Services include:

- Production of crude virus preparations
- Concentration of virus from crude preparations
- Preparation of crude infected cell lysates
- Isolation of viral proteins, RNA & DNA
- Determination of virus concentration; plaque assay and TCID₅₀ determinations
- Preparation of inactivated virus
- Quantification of proteins and nucleic acids

A Certificate of Analysis (CoA) is provided with each material. This typically includes OD_{260/280} for viral particle estimation & TCID₅₀ assay for viral infectious titer.

Contact us to learn more: info@imquestbio.com.

About ImQuest BioSciences

ImQuest BioSciences is a preclinical contract research and development company that evaluates the potential of new and novel pharmaceutical products. We specialize in the development of drugs, vaccines and biologic products for the treatment and prevention of infectious disease, cancer and inflammatory disease.



We propagate, concentrate and characterize many viruses including those listed below. For viruses not listed, please contact us.

- **Human Immunodeficiency Virus**
 - Laboratory adapted strains in established cells
 - Clinical subtype strains in fresh human cells
- **Respiratory Viruses**
 - Influenza Virus
 - Respiratory Syncytial Virus
 - Rhinovirus
 - Parainfluenza Virus
 - Measles Virus
 - Adenovirus
- **Herpes Viruses**
 - Herpes Simplex Virus 1 & 2
 - Cytomegalovirus
- **Enteric Viruses**
 - Enterovirus
 - Echovirus
 - Coxsackie Virus
 - Poliovirus

Molecular Biology

- Virus production and genotypic characterization
- Sequencing & identification of antimicrobial target genes
- Quantitative real time PCR
- Single Nucleotide Polymorphism (SNP) detection
- Cloning and sequencing of recombinant plasmids
- Gene expression analysis
- Recombinant protein expression and purification
- Protein-protein and protein-nucleic acid interactions
- Microbial resistance characterization
- Novel target identification and assay development
- Analysis of pathogen-host interactions

Tissue Culture

- Preparation and maintenance of cell lines or primary cell cultures
- Virus stock production
- Virus propagation
- Bacteria stock production
- Cell and virus repository
- Baculovirus expression systems
- Prokaryotic expression systems

Immunology

- Antigen-specific ELISpot assays
- Tissue cross-reactivity assays and immunohistochemistry
- ELISAs:
 - Antigen specific ELISAs
 - ELISA method development, GLP validation and transfer
 - ELISA kit validation
- Neutralizing antibody and other cell based assays
- Flow cytometric assays
- Biomarker discovery and validation
- PBMC isolation and immunogenicity screening
- Analysis of clinical samples to determine the immune response evoked by the treatment

We will develop, optimize, and validate your assay and run your samples in a GLP- or non GLP-compliant manner.

Contact us for more information:
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Drug Evaluation Services

Our pharmaceutical properties and pre-formulation services help to ensure that a new compound is not derailed by an inability to formulate an otherwise promising product.

We offer the services shown below to evaluate the pre-formulation characteristics, requirements, and potential of a drug candidate.

Analytical

- HPLC analytical development
- Drug degradation profile & characteristics
- Drug-exipient compatibility

Solubility

- *In vitro* drug dissolution
- Drug solubility

Stability

- ICH environmental stability protocols
- Stability indicating evaluations

Drug Delivery

- Drug permeability in tissue & cells
- *In vitro/ex vivo* drug release testing

Formulation Identity

- API physical characteristics
- Moisture content
- Rheological evaluation