




Specialist Infectious Disease and Immunology Laboratory Solutions

Purpose built to accelerate the development of new medicines

As part of **hVIVO**, a global leader in human challenge studies, our laboratory is rooted in a legacy of **scientific innovation** and clinical impact. We combine **world-leading expertise** with a **participant-oriented approach**, delivering diverse lab services that are not only technically robust but also deeply aligned with drug development needs. Our strength lies in a multi-faceted approach, integrating molecular, virology, immunology, and bacteriology. This synergy ensures high sensitivity, specificity, and reproducibility, enabling accurate pathogen detection, immune profiling, and functional characterisation.



100,000 +
samples annual
processing capacity




50,000 +
samples in our biobank




BSL2 and **BSL3**
facilities



24/7
sample receipt and
processing capabilities



Robotics and
automation for high
throughput and scale



Regulatory support
for Fast Track
Designation and
EMA PRIME



14 World leading
human challenge
models available





Specialist Infectious Disease and Immunology Laboratory Solutions

Why sponsors choose to work with us

Specialised testing powered by advanced technology and a GCLP/GxP-compliant framework. Our processes deliver high reproducibility, ensuring consistent and reliable results. With a team of experienced professionals and broad specialty assays, we offer flexibility through customised assay development tailored to your unique needs. Outsourcing to us saves time, reduces risk, and guarantees quality—so you can focus on innovation while we handle the complexity.

Scientific Leadership

1

Our team brings decades of experience in virology, immunology, and translational science — helping you choose and develop the right assays for your clinical study generating the data that you require.

Clinical Co-location

3

State of the art laboratory embedded within a clinical and participant recruitment facility; we enable seamless integration between lab and participants— accelerating timelines and reducing friction.

Ready to scale with you

5

Our flat structure, peer to peer communication and experienced project management team, takes you from developing the right assays for discovery to GxP validated assays for clinical trials.

Continuous Investment

7

We will upgrade and invest in new technologies as they emerge to suit sponsor requirements.

Diverse Technology Platforms

2

From molecular and biomarker analysis to drug efficacy we offer flexible, scalable solutions tailored to your pipeline, helping you achieve research, clinical and commercial milestones.

Ethical Oversight and Compliance

4

Operating under strict regulatory requirements our team will ensure all compliance checks are in place, ensuring sample integrity.

End-to-End Solutions

6

From regulatory consultation, to assay development, translational research to high volume bioanalysis for clinical trials and sample storage, hVIVO laboratories supports you at every step.

✓ Rooted in Labs.
Driven by Science.
Trusted by Industry.

Our Laboratory Solutions

Pre clinical services

- Consultation on drug development plans
- Translational modelling
- Translational research
- Regulatory support and due diligence

Clinical Trial Solutions

- Bespoke kit production
- Laboratory Manuals
- Site training
- Clinical bioanalysis from Phase I-III

Sample Processing network

- PBMC & cell isolation network, processing and downstream analysis
- Sample processing and stabilization for long term storage and shipping
- Cell culture Laboratory

Assay development and validation

- Bespoke assays and customization
- R&D assay development and optimization
- Off the shelf assays

Bioanalysis and characterisation

- Pathogen propagation & titration
- Validated virology and immunology assays
- Multi-pathogen testing and quantification
- Drug and virus potency testing

Techniques and automation

- Sample handling robotics and automation

PK/PD Assays

- Cell-based assays
- ELISA
- Multiplex cytokine analysis
- qPCR and ddPCR

Genomic Assays

- Next-Generation Sequencing (NGS)
- Microbiome sequencing

Immunoassays

- Detection of binding antibodies
- Detection of neutralizing antibodies
- Ligand binding assays
- ELISpot





Master Pathogen List

VIRUS	
Adenovirus (Including Type 1, Type 2 and Type 3)	Influenza - A/New Caledonia/20/99 (H1N1)
Adenovirus F40/41	Influenza - A/West Virginia/30/2022(H1N1)
Astrovirus	Influenza - A/Wisconsin/67/2022 (H1N1)
Chikungunya	Influenza - B/Austria/1359417/2021
Cytomegalovirus (CMV)	Influenza - B/Connecticut/01/2021
Dengue (serotypes 1,2,3 and 4)	Influenza - B/Phuket/3073/2013
Ebola	Lassa
Enterovirus (EV)	Marburg
Equine Encephalitis (WEEV & VEEV)	MERS-CoV
HCoV- Coronavirus HKU1	Nipah
HCoV- Coronavirus NL63	Norovirus GI/GII
HCoV- Coronavirus OC43	Parainfluenza virus 1
HCoV-Coronavirus 229E	Parainfluenza virus 2
Herpes simplex virus 1 (HSV-1)	Parainfluenza virus 3
Herpes simplex virus 2 (HSV-2)	Parainfluenza virus 4
Human herpesvirus 6 (HHV-6)	Rabies
Human Metapneumovirus (hMPV)	Respiratory Syncytial Virus (RSV A)
Human parechovirus (HPeV)	Respiratory Syncytial Virus (RSV B)
Human Rhinovirus (HRV-16)	Rotavirus A
Human Rhinovirus/Enterovirus	Sapovirus (I, II, IV, and V)
Influenza - A/Brisbane/10/2007(H3N2)	SARS-CoV-1
Influenza - A/California/123/2022 (H3N2)	SARS-CoV-2
Influenza - A/California/45/2023 (H3N2)	Semliki Forest
Influenza - A/Croatia/10136RV/2023 (H3N2)	Varicella zoster virus (VZV)
Influenza - A/District of Columbia/27/2023 (H3N2)	West Nile
Influenza - A/Georgia/12/2022 (H1N1)	Yellow Fever
Influenza - A/Massachusetts/18/2022 (H3N2)	Zika





Master Pathogen List (contd.)

BACTERIA

Acinetobacter calcoaceticus-baumannii complex	Enterobacterales
Bacteroides fragilis	Enterococcus faecalis
Bordetella parapertussis (IS1001)	Enterococcus faecium
Bordetella pertussis (ptxP)	Escherichia coli (E. coli)
Campylobacter (C. jejuni / C. coli / C. upsaliensis)	Haemophilus influenzae
Chlamydomphila pneumoniae	Klebsiella aerogenes
Clostridioides (Clostridium) difficile (toxin A/B)	Klebsiella oxytoca
E. coli -Enteroaggregative (EAEC)	Klebsiella pneumonia group
E. coli - Enteropathogenic (EPEC)	Leptospira spp.
E. coli -Enterotoxigenic (ETEC) lt/st	Listeria monocytogenes
E. coli - O157	Mycoplasma pneumoniae
E. coli - K1	Neisseria meningitidis
E.coli - Shiga-like toxin-producing (STEC) stx1/stx2	Plesiomonas shigelloides
E.coli - Shigella/Enteroinvasive E. coli (EIEC)	Proteus spp.
Enterobacter cloaca complex	Pseudomonas aeruginosa

YEAST

Candida albicans	Candida parapsilosis
Candida auris	Candida tropicalis
Candida glabrata	Cryptococcus (C. neoformans/C. gattii)
Candida krusei	

PARASITES

Cryptosporidium	Plasmodium falciparum
Cyclospora cayetanensis	Plasmodium vivax/ovale
Entamoeba histolytica	Plasmodium spp.
Giardia lamblia	



Quality & Trust

ISO 17025:2017, GCLP, Collage of American Pathologists (CAP), Human Tissue Authority (HTA), and UKAS ISO 17025 (in progress). IATA training for most laboratory staff.

