

Our mission is to deliver bioanalytical excellence

PK, PD Immunogenicity Biomarkers



Why Agilex Biolabs?



Unparalleled Experience

>150 years of combined experience in early phase research.



Data Integrity and Quality Assurance

Our FDA-inspected facilities have OECD GLP recognition and ISO 17025 Accreditation with NATA. Highest quality data acceptable to all regulatory agencies.



Timeliness and Speed

Fast turnaround for Single Ascending Dose (SAD) and Multiple Ascending Dose (MAD) studies.



43.5% R&D Tax Incentive

Eligible biotechs can receive a 43.5% cash refund of Australian R&D expenses.

AGILEX Biolabs is the only FDA inspected bioanalytical laboratory in Australia, supporting preclinical and clinical trials with a global client base for over 25 years.

Agilex Biolabs specialises in bioanalysis of small molecules and biologics for PK, immunogenicity, biomarkers and immunological pharmacodynamics assessments utilising LC-MS/MS, immunoassay (Mesoscale, GyrolabxPlore™, Luminex) and flow cytometry (BD FACSymphony A3 20 colour cell analyser).

Our operational scale ensures:

- Fast turnaround times, delivered as standard for FIH studies e.g. SAD cohort results delivered within 3 working days
- Analytical results; processed with Watson LIMS, the global industry standard for Bioanalytical CROs, providing data output in multiple formats

Bioanalysis

Agilex Biolabs has over 25 years' experience in supporting pre-clinical and clinical programs. Our scientists have expertise in development of robust compliant PK, PD and immunogenicity assays de novo or by method transfer from a client's laboratory.

Our growing biomarker menu includes bioanalytical assays for compounds from small molecules to high molecular weight peptides. Our scientists take a tiered approach to creating either exploratory, qualified or validated assays to support the entire life cycle of a clinical program.

Our expertise includes:

Peptides/Proteins by LC-MS/MS / Small Molecules

NCEs, sugars, nucleotides, enantiomers, steroids, prodrugs, peptides, immunosuppressants, nanoparticles, neurotransmitters, polymeric mixtures:

- Capability to assay peptides/ proteins using Immunocapture techniques and/or
- Protein MS
- PK Analysis
- PD Analysis
- Biomarkers

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Biologics by Immunoassay

Pharmacokinetics (PK)

PK analysis using colorimetric, fluorescence, chemiluminescence or electrochemiluminescence (MSD) detection for recombinant or fusion proteins, monoclonal antibodies, bispecific antibodies, ADCs, biosimilars.

Immunogenicity

Anti-drug antibody (ADA) and neutralising antibody (Nab) assays:

- Screening and confirmatory testing using a state-of-the-art MesoScale Discovery instrument to achieve the highest sensitivity
- Neutralising antibody detection using cell based or competitive ligand binding assay

Biomarkers

Biomarker analysis either by de novo setup of assays or commercially available kits. Tiered approach according to study design: exploratory > qualified > validated assays.

Sensitive multi-platform analysis for either single analyte or multi-plex panels:

- Meso Scale Discovery (MSD) – single or multiplex assays
- GyrolabxPlore™ – automated nanolitre-scale immunoassays
- Luminex MAGPIX xPONENT Analyser – multiplex assays

Pharmacodynamics (PD)

PD analysis to determine the effect of drugs and their mechanism of action. Our laboratories use the latest state-of-the-art technology to support immunology, cell biology and mode of action assays, including:

- Immunophenotyping
- Receptor occupancy
- Cytokine release assays (whole blood or PBMC-stimulation assays) and cytokine/biomarker profiling
- PBMC assays and cellular mechanism of action assays

Quality Assured

AGILEX Biolabs operates a fully quality assured, FDA inspected laboratory, to ensure that within the principles of Good Laboratory Practice (GLP), assays are validated to the latest FDA/EMA bioanalytical guidance and study samples are assayed and reported to the Sponsor's desired format.

Certification:

- OECD Principles of Good Laboratory Practice (GLP) Certification from the Australian Government's OECD GLP compliance monitoring authority (NATA)
- ISO 17025 R&D Accreditation (NATA) for the analysis of drugs and metabolites in biological fluids by LC-MS/MS, HPLC and Immunoassay
- ICH Good Clinical Practice (GCP) Guidelines compliant

Get in touch with our expert scientists to learn more about how we can help you deliver your next project.

