

State-of-the-art,
**purpose
built**
laboratories

U.S. and Canada

Designated containment level 2 areas
for risk group 2 pathogens

Over 260 highly skilled bioanalytical experts

Can process over 60,000 samples per month
with shifts running 24/7 if needed

BIOANALYSIS

From Discovery to Preclinical to Phase IV — Method Development, Validation, and Sample Analysis

Experience with a wide spectrum of biological matrices in both animal species and humans, including serum, plasma, blood, urine, feces, animal tissues, cerebrospinal fluid, vitreous humor, tears, saliva and human tissue biopsies.

Small Molecules

- Extensive in-house database of over 685 **assays** covering over 650 molecules
- Customized, unique solutions in derivatization, chiral separation, drug stabilization, and multiple metabolite quantitation
- State-of-the-art instrumentation to achieve low quantitation with limited sample volume

Large Molecules

- We evaluate each request and provide customized workflows to allow accurate platform selection by hybrid LC-MS or ligand binding.
- Validation-ready assays, customized to your needs, by our experienced scientists, using advanced instrumentation.

Program Support Platforms

LC-MS/MS, LBA OR HYBRID LBA/LC-MS/MS ASSAY PLATFORMS

- Small molecules
- Peptides
- Proteins
- Antibody-drug conjugates (ADC)
- Monoclonal antibodies (mAb)
- Immunogenicity
- Anti-drug antibody
- Neutralizing assays
- Biomarkers - single or packages
- Oligonucleotides



LC-MS/MS

Capabilities supported by:

- Over 30 LC-MS/MS instruments, including SCIEX API 5000, 5500, 6500+, and SelexION with Nexera UHPLCs
- HRMS including the SCIEX API 6600, and ThermoFisher Q-Exactive
- Microflow and nanoflow capabilities for the front end of our HRMS systems

Ligand Binding

Our ligand binding group is equipped with:

- Mesoscale S600 Electrochemiluminescence sector imager
- BioTek Synergy H4 Multimode Plate Reader using absorbance, fluorescence, or luminescence
- Luminex 200 system
- BioTek EL406 microplate washer/dispenser
- BD Biosciences FACSCanto™ II cytometer
- BD Fortessa Flow Cytometer (5 lasers, 18 colors)
- Precellys® Evolution homogenizer
- Droplet Digital PCR and qPCR analysis
- MSD QuickPlex SQ120

Quantitative analysis using LC-MS/MS

- Experience with monoclonal antibodies, antibody-drug conjugates, and proteins (intact and peptide quantification)
- Automated immunoaffinity sample preparation producing high-throughput assays with impressive sensitivity
- Biomarkers and endogenous analytes
- Labile metabolite quantitation
- Industry experts supporting Microsampling (Mitra® VAMS® and dried blood spots) for preclinical and clinical programs

Our ligand binding assay types:

- Immunogenicity
 - ADA (screening, confirmatory, and titration)
 - nAb by non-cell based and cell-based assays
 - Electrochemiluminescence
 - MSD Imager
 - Quantitative ELISA assays
 - Biomarker panels
 - Cell-based assays
 - Flow cytometry
 - Gene therapy
- Functional cell-based assays
- Cell lineage and functional immunophenotyping by flow cytometry
- PCR analysis