BIOANALYTICAL CAPABILITIES

Expert Navigation & Delivery to Help You Reach Your Preclinical & Clinical Objectives

Helping your drug development program succeed is what we do. Keeping your timeline on track requires scientific expertise, operational experience and up-to-date knowledge of the regulatory environment. Whether you need preclinical or clinical bioanalysis, local support or global capabilities, Covance is the partner that you can trust to help deliver on your bioanalytical timelines every day, every time.

Covance offers unique perspectives that have helped to develop more than 93 percent of all 2018 FDA approved new drugs. We partner to help you determine the best strategy for your drug candidate and to implement a solution that delivers the most value from your program. We will work collaboratively with you to meet your needs, leveraging experience gained from developing more than 1,000 methods annually and supporting more than 260 unique compounds annually.

Small Molecule & Biologics Bioanalytical Solutions

- ► Feasibility, method development, transfer, validation and sample analysis
- ► Scientific and regulatory expertise across multiple species and sample matrices
- ► High-throughput discovery, nonclinical (GLP) and clinical studies
- ▶ Immunogenicity studies using a tiered approach
 - Screening
 - Confirmatory (immunodepletion)
 - Titer assessment (quantification, semi-quantification)
 - Cell-based neutralizing antibody detection
- ► Cell-based bioassay development, validation and sample analysis

Translational Biomarker Solutions

- ▶ Fit-for-purpose validation
- CLIA-certified laboratories
- ▶ GLP/GCP-compliant services
- Discovery and clinical biomarker services
- Multiplexing capabilities
- ▶ Multiple platforms including MSD and Luminex

ELISA-Based

- ► Ligand-binding assays
- ▶ Targeted biomarker assay development and validation
- ► Biomarker discovery

Mass Spectrometry-Based

- ▶ Targeted biomarker assay development and validation
- ▶ Biomarker discovery (proteomics and metabonomics)

Specialized LC-MS Solutions

- ▶ Oligonucleotides (siRNA, DNA)
- Peptides and proteins (mAbs)
- ► Targeted proteomics
- Antibody-drug conjugates
- ► Tissues

- ▶ Dried Matrix Spot analysis
- ▶ Microfluidics and microsampling analysis
- ► High-resolution accurate mass (HRAM)-MS

188,500 feet² (17,512 meters²) of Operational Space (as of October 2019)

- ▶ Indianapolis, IN: 51,000 ft²
- ► Salt Lake City, UT: 29,000 ft²
- ► Chantilly, VA: 42,500 ft²
- ▶ Madison, WI: 25,000 ft²
- ► Harrogate, UK: 22,000 ft²
- ▶ Huntingdon, UK: 5,700 ft²
- ▶ Somerset, NJ: 9,400 ft²
- ▶ Shanghai, CN: 19,000 ft²



Small Molecule Instrumentation and Automation

Instruments

- ► AB Sciex API 6500TM, 5500TM, 5000TM, 4500TM, 4000TM and 3000TM
- ► AB Sciex QTRAP® 4000, 5500 and 6500
- ► Thermo Scientific™ Q Exactive™ Hybrid Quadrupole-Orbitrap™ MS
- ► Thermo Scientific™ FAIMS interface module
- ► Thermo Scientific™ TSQ Vantage triple stage Quadrupole MS
- ► Thermo Scientific™ TSQ Quantum Ultra™ triple Quadrupole MS
- ► Waters® Xevo® TQ-S with ionKey
- ► Waters® Micromass® Quattro Premier XE™ Tandem Quadrupole MS
- ► Waters® Quattro Premier XE™

UHPLC

- ▶ Waters® ACQUITY UPLC®
- ► Waters® ACQUITY UPLC® (M-Class)
- ▶ Shimadzu Nexera X2 UHPLC system
- ► LEAP Technologies 4X UHPLC systems

HPLC

- ► Shimadzu SPD-M10 PDA systems
- ► Shimadzu SIL20AC-HT autosampler
- ► Shimadzu HTC HPLC
- ▶ Shimadzu Prominence HPLC
- ► Agilent Technologies HP1100 HPLC
- ► Cohesive Aria TX2 Multiplexed Turbulent Flow HPLC
- ► Thermo Scientific[™] Aria[™] TX1 TurboFlow[™], TX2 TurboFlow[™] and TX1 Transcend[™] TurboFlow[™]
- ► LEAP Technologies CTC HTS PAL equipped with multiplexing valves
- ▶ Rheos 2000 CPS-LC systems

Automation

- ► Hamilton liquid handling systems: Microlab® NIMBUS 96, STAR™ and STARlet
- ► Spark Holland Symbiosis™ Pharma
- ► Tomtec Liquid Handling Station 96 well (360)
- ▶ Tomtec Quadra4™
- ► Anachem Flexus DMPK
- ▶ BSD600-Duet: Automated dried blood spot punch
- ► Tissue homogenizing units

Biologics Instrumentation and Automation

Instruments

- ► MSD SECTOR Imager 6000 and 2400 readers
- ▶ MSD QuickPlex SQ 120
- ► Gyros Gryolab[™] xP immunoassay platform
- ▶ Bio-Plex® 200 systems
- ► Titertek[™] APEX[™] 10/600 Gamma Counter
- ▶ PerkinElmer® WIZARD® 2470 Gamma Counter
- ► Beckman COULTER COUNTER® Z2[™] Particle Cell Counters
- ▶ Beckman COULTER Vi-CELL® Particle Cell Counter

Readers

- ► Molecular Devices (MD) SpectraMax® 340PC reader
- ► MD VersaMax[™] Tunable Microplate readers
- ▶ MD SpectraMax[®] L Microplate Luminometers
- ▶ MD SpectraMax® M5 systems
- ▶ MD SpectraMax® 96/384-well plate reader
- ► Gemini fluorescence plate reader

Automation

- ► Hamilton Microlab® STAR™ liquid handling system
- ► Hamilton Microlab® STARlet workstation
- ▶ Biomek® NXP Span-8

Information Systems

- ► Thermo Scientific™ Watson LIMS™
- ► IDBS E-WorkBook
- ► Waters® NuGenesis SDMS™
- ► Thermo Scientific™ Nautilus LIMS™
- ▶ VelQuest SmartLab™

Environmental Monitoring Systems

- ▶ Rees Scientific Series II-PC
- ▶ Rees Scientific Centron SQL

Expanded & Connected Solutions

- ▶ Lead Optimization
- Drug Metabolism
- ► Safety Assessment
- ▶ Bioanalysis
- Biopharm CMC Analytical Solutions
- ► Regulatory PK/TK Reporting
- ▶ Phase I, II, III
- ► Central Laboratory Services
- ► Biomarker Solution Center

For more information or to contact us regarding our bioanalytical solutions, please contact your Covance representative.

Learn more about our drug development solutions at www.covance.com

Covance is the drug, medical device and diagnostics business segment of LabCorp, a leading global life sciences company. COVANCE is a registered trademark and the marketing name for Covance Inc. and its subsidiaries around the world.

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