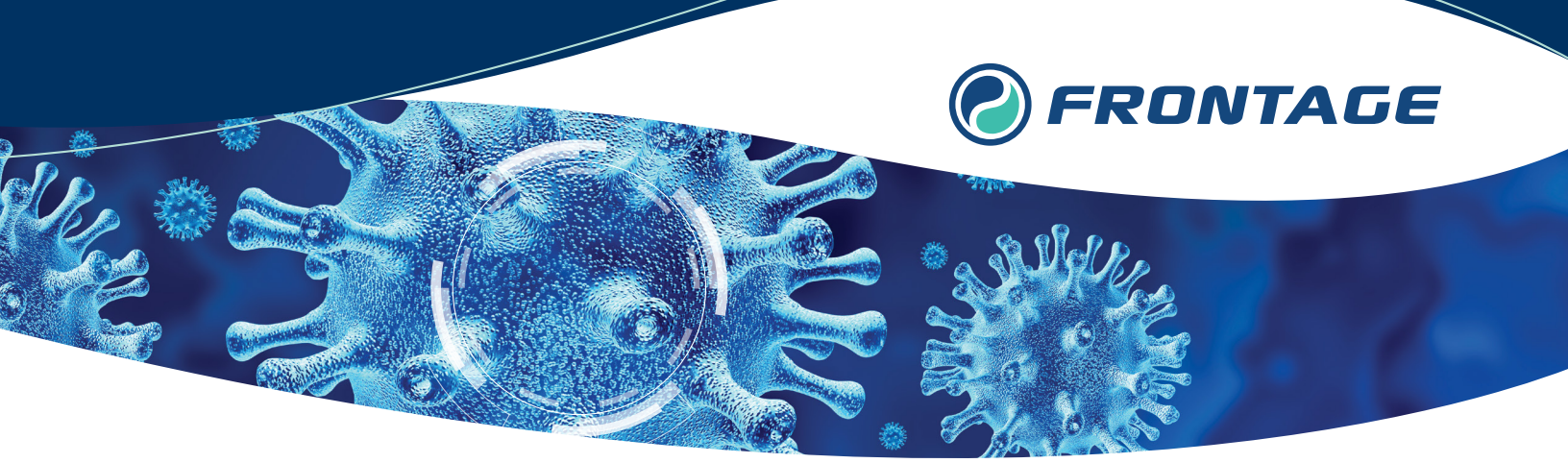

COVID-19 CAPABILITIES

Supporting development of new vaccine and therapeutics

Service Capabilities to Support the Fight Against COVID-19

At Frontage Labs, we are committed to address immediate threats of COVID-19 by supporting development of new vaccine and anti-viral therapeutic programs. We are working closely with biopharma sponsors globally to provide solutions to support the development of new therapeutics, vaccines, and testing kits. Our labs are open and fully operational to support your immediate project needs. We have the ability to process COVID-19 molecular and antibody testing, in addition to COVID-19+ positive PK and PD samples.

Bioanalytical Method Validation and Sample Analysis in a Designated BSL-2 Lab

Frontage's GLP and CLIA dedicated facilities are ready to receive and analyze COVID-19 biological samples for new vaccines and drug therapies in our Biohazard Safety Level-2 (BSL-2) labs. Our 20+ year of scientific and operational expertise in bioanalysis positions us to support our clients during the COVID 19 pandemic for method development, validation and sample analysis across a multitude of industry leading platforms, including LC/MS-MS and MSD.

Formulation Development and GMP Clinical Trial Material Manufacturing

Our formulations development and GMP CTM team has the ability to expedite COVID-19 projects to support our clients in the race to address the pandemic. We can quickly provide oral and sterile formulated GMP clinical trial materials to be used for COVID-19 patients.

Analytical Support for COVID-19 Testing Kits and Products

Our analytical chemistry teams can analyze finished drug products to be used for COVID-19 patients.

Safety and Toxicology

Frontage's Safety/Toxicology site in Concord, Ohio has a long history of undertaking IND enabling and specialty studies of pharmaceuticals, vaccines and other products, and during the ongoing COVID-19 situation, the site continues to operate at full capacity. The site undertakes studies in NHPs and all other common laboratory species and is supported by robust add-on capabilities, including bioanalysis & histopathology.

COVID-19 Testing Services

Facilitate the diagnosis of current and previous infection

Our highly experienced team is actively working to continue developing COVID-19 related testing capabilities. These tests will facilitate the diagnosis of current and previous COVID-19 infection. The semi-quantitative IgG assay will help evaluate the titer of the COVID-19 antibody post infection or vaccine.

Medical Diagnostics

SARS-CoV-2 Nucleic Acid Testing and Environmental Specimens

Platforms	Samples	Methodology
Diasorin Liaison MDX	Oral Pharyngeal swab	Direct Reverse-Transcription Polymerase Chain Reaction (RT-PCR)
Thermo Fisher Taq Path Multiplex Diagnostic Platform	Nasal Pharyngeal swab	
	Bronchioalveolar lavage	
	Environmental Sample	

COVID-19 Antibodies Assay

Platforms	Samples	Methodology
Testing Strips (qualitative IgG and IgM)	Serum/Plasma/Whole Blood	Lateral Flow Immunoassay
Automated Test (semi-quantitative)	Serum/Plasma/Whole Blood	Immunoassay

THE FRONTAGE COMMITMENT

For many sponsors who rely on service partners to help develop and commercialize their products, good science is not enough. For more than 20 years, Frontage has earned a reputation for collaboration, responsiveness and the ability to customize services and deliverables that are aligned with the needs of our clients.

Frontage Laboratories, Inc. is a contract research organization (CRO) that provides integrated, science-driven, product development services throughout the drug discovery and development process to enable pharmaceutical and biotechnology companies to achieve their development goals. Comprehensive services include drug metabolism and pharmacokinetics, analytical testing and formulation development, preclinical and clinical trial material manufacturing, bioanalysis, preclinical safety and toxicology assessment and early phase clinical studies. Frontage has enabled many biotechnology companies and leading pharmaceutical companies of varying sizes to advance a myriad of molecules through development and file regulatory submissions in the United States, China, and other countries.

FOR MORE INFORMATION, CONTACT US AT: *sales@frontagelab.com* **OR VISIT US AT:** *frontagelab.com*