

Promoting Projects to Counter Infectious Diseases

Virus Testing

Measures to Prevent the Spread of Infections



Fully Automatic
Real-Time PCR Testing
System

Faster and More Convenient Tests

The Novel Coronavirus Detection Reagent Kit was developed based on Ampdirect™. This is patented Shimadzu's gene amplification technology. In addition, we developed a fully automatic real-time PCR testing system that automates every step from sample pretreatment to measurement and data analysis, thereby providing a rapid test workflow.



2019 Novel Coronavirus
Detection Kit

Launch of PCR Testing Business

Shimadzu Techno-Research, Inc., a contract analysis subsidiary, is engaged in the PCR test business using human saliva samples.

In addition, the spread of coronavirus infections in a target group can be monitored by running PCR tests of sewage.



Industry-Academia Collaboration on Infectious Diseases

Developing Techniques for Testing for the Novel Coronavirus Using Breath Samples

Through collaborative research with Tohoku University, Shimadzu has succeeded in developing a technique for coronavirus testing via "Breathomics," which uses naturally exhaled breath as a sample.



Researching Technology for Predicting Increased Severity in Coronavirus Cases Based on Blood or Urine Tests

Based on the results of collaborative research with Kumamoto University and AiSTI SCIENCE CO., Ltd., Shimadzu has developed an analysis system and method package* for measuring a group of biomarkers that appear related to the severity of a coronavirus infection.

* A method package contains all the information needed to analyze a sample for a specific application using a Shimadzu liquid chromatograph mass spectrometer.



Diagnosing Pneumonia

Responding to the Rapid Increase in Demand for Mobile X-Ray Systems

Increased Production of Mobile X-Ray Systems

When the pandemic started, sharing and disinfecting instruments in examination rooms was difficult, and a mobile X-ray system dedicated to treating infected patients was needed.

With the spread of coronavirus infections worldwide, the demand for such instruments has increased sharply, and Shimadzu Group factories in Japan and overseas are taking measures to increase their production.



Pharmaceuticals Analysis and Research

Supporting Research and Development of Therapeutic Drug Candidates for Coronavirus Infections

Development of Stable Isotope Reagents

Alsachim SAS, a Shimadzu Group company in France, has developed stable isotope reagents for six existing drugs that were therapeutic candidates for treating coronavirus infections.

The combination of these reagents and Shimadzu analytical instruments supports pharmaceutical companies and research institutes that are working to develop therapeutic drugs.



Research Use Only. Not for Use in Diagnostic Procedures.
To confirm the details of your regional availability, please contact your local representative.



Shimadzu's Response to the COVID-19 Pandemic

This website introduces Shimadzu products that contribute to medical treatment centers, solutions that support the development of therapeutic drugs, and messages from researchers.

<https://www.shimadzu.com/covid-19/>

