# ACCEL ELISA® COVID-19 Total Antibody Kit

Rapid ELISA For Detection of SARS-CoV-2 Antibody in Human Serum

Simple. Fast. Reliable.

ONE WASH ELISA
IN 45 MINUTES OR LESS

Universities / School Districts, Government Facilities / Military Bases, Companies / Factory Sites, Hospitals / Healthcare Sites, Airports / Terminals / Borders, and more

Website: <a href="www.plexense.com">www.plexense.com</a>
E-mail: <a href="mailto:info@plexense.com">info@plexense.com</a>

# **Key Features & Benefits**

## **Fast and Simple High-throughput Assay**

ACCEL ELISA® COVID-19 total Antibody test can be tested anywhere without Automation equipment which requires in the certified lab. The test could validate in 45 mins for 92 patients after samples are collected, by using only the basic portable laboratory equipment. It is all possible due to the simplified process of ACCEL ELISA® new technology.



# Rapid and Scalable for Mass Testing

The ACCEL ELISA® testing system offers simple and easy scaling up of testing capacity to meet surging requirements.

Personnel	Min. Required Equipment		Throughput (Samples)	
X 18 Staffs	Microplate Readers x 3  Workspace - 96 m <sup>2</sup>		10,000 tests per day (8 working hours) available	
No. of patient samples tested per day	No. of Medical Personnel Required	Microplate Readers	Minimum Equipment Required  Work Tables	Workspace
1,000	2	1 ea.	2 ea.	16 m <sup>2</sup>
2,880	5	1 ea.	5 ea.	35 m <sup>2</sup>
10,000	18	3 ea.	18 ea.	96 m²

X All other universal test equipment and accessories available in diagnostic lab or hospital may be used.

ACCEL ELISA® COVID-19 Total Antibody test offers a powerful solution for any organization looking to perform high-capacity routine mass testing using existing infrastructure and minimal resources.

### **Low Cost**

ACCEL ELISA® COVID-19 Total Antibody test also offers a cost-saving advantage over PCR test that requires expensive reagents.

# **Clinical Evaluation**

## **Performance (Accuracy)**

A total of 341 serum specimens from patients confirmed by RT-PCR were analyzed.

The ACCEL ELISA® COVID-19 total Antibody test kit showed 94.4% of Sensitivity and 100% of specificity, relative to the result of RT-PCR.



※ Test performance was conducted at the BioNano Health Guard Research Center, May 14∼16, 2021.

## **Cross Reactivity and Interference**

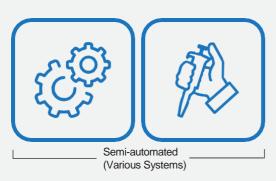
Cross reactivity with different types of human pathogenic coronaviruses and various organisms were analyzed. The result was only positive in the sample containing the SARS-CoV antibody.

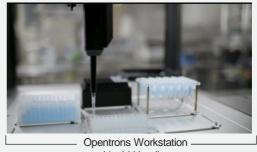
The ACCEL ELISA® COVID-19 total Antibody test was evaluated for interference total of 40 specimens from 16 different categories were tested. None was found to interfere and affect test performance.

# **System Automation**

### Open-Platform Testing with Automation

ACCEL ELISA® COVID-19 total Antibody test has been designed as an open mode protocol and can be easily run on manual and almost all validated Semi-automated systems to significantly increase efficiency as per required.



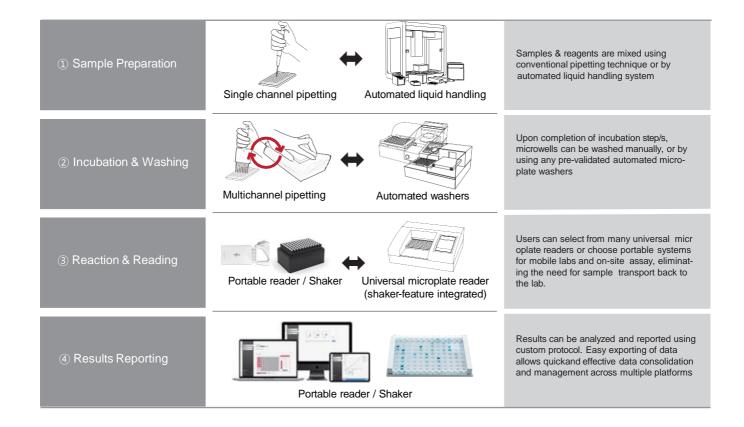


Liquid Handler

\*Consult your distributor or the manufacturer for a list of pre-validated systems.

# **ACCEL ELISA® Workflow Automation**

## Manual and Semi-Automated Workflow



# **Complete Sample Preparation (Semi-automation)**

Simply load your reagents on the workstation, hit 'run,' and let the workstation prepare samples.

- Eliminates variations that occur with manual operations and technician variability.
- Has a small laboratory footprint simultaneously process 96 tests.
- Suitable for places where a shortage of technicians under high-stress demand situations.



**Opentrons Workstation** 

<sup>\*</sup>Consult your distributor or the manufacturer for a list of pre-validated systems.

# **Specifications**

ACCEL ELISA® COVID-19 Total Antibody test is a rapid ELISA for the qualitative detection of nucleocapsid protein (antibody) of SARS-CoV-2 present in serum sample.

Specimen	10~30 μL of serum	
Testing time	45 mins	
Packaging unit	96 Tests/Kit (92 samples)	
Storage condition	2 ~ 8°C	

<sup>※</sup> Product package contains 1 well-plate and 7 reagents



# Accessories needed in every system (per kit)

#### **General Accessories**

Item	Vacutainer / Needle	Test tube	Pipette tip	Single channel Pipette	Vortex	Micro Centrifuge
Unit/ Specification	92 units	96 ea	Dedicated tips for each system	Delivering single sample by μL scale	-	Micro Centrifuge for serum separation
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# Accessories required for manual and semi-automated platform

ltem	Reservoir	paper towel
Unit/ Specification	Dedicated Reservoirs for each system	1 Pack
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Item	Conventional 96 well plate for mixing samples	Multichannel pipette
Unit/ Specification	1 ea	Simultaneously delivering multiple samples by µL scale
Image		. 9

X System-specific accessories are available separately in addition to the above accessories.



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