

# ACCEL ELISA<sup>®</sup>

## COVID-19 Saliva Antigen kit

Rapid ELISA For Detection of SARS-CoV-2 Antigen in Human Saliva

### Routine Mass Screening Easy to Perform

#### Simple and Non-invasive Mass Collection of Saliva Samples

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

Website [www.plexense.com](http://www.plexense.com)  
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# Key Features & Benefits




## Fast and Reliable Sample Collection

ACCEL ELISA® COVID-19 Saliva Antigen test can be deployed at on-site collection centers for hospital staff, patients and visitors, remote collection facilities for mass testing of local populations or in dedicated, pop-up labs at airports or universities.



## 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	Minimum Required Equipment	Throughput (Samples)
 X 18 Staffs	 Microplate Readers x 3  Workspace - 96 m <sup>2</sup>	6,072 tests per day (8 working hours) available

No. of patient samples tested per day	No. of Medical Personnel Required	Minimum Equipment Required		
		Microplate Readers	Work Tables	Work Space
920	3	1 ea.	3 ea.	20 m <sup>2</sup>
1,932	6	1 ea.	6 ea.	40 m <sup>2</sup>
6,072	18	3 ea.	18 ea.	96 m <sup>2</sup>

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

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

## Low Cost

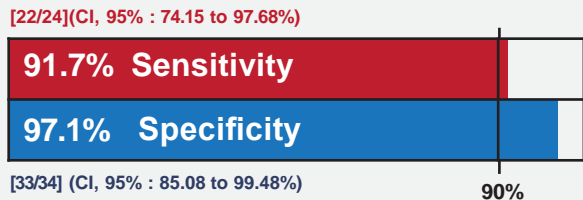
ACCEL ELISA® COVID-19 Saliva Antigen test also offers a cost-saving advantage over PCR test that requires expensive reagents.

# Clinical Evaluation

## Performance (Accuracy)

A total of 58 saliva specimens from patients confirmed by RT-PCR were analyzed.

The ACCEL ELISA® COVID-19 Saliva Antigen test kit showed 91.7% of Sensitivity and 97.1% of specificity, relative to the result of RT-PCR.



## 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 antigen.

The ACCEL ELISA® COVID-19 Saliva Antigen test was evaluated for interference from 26 kinds of substances. None was found to interfere and affect test performance.

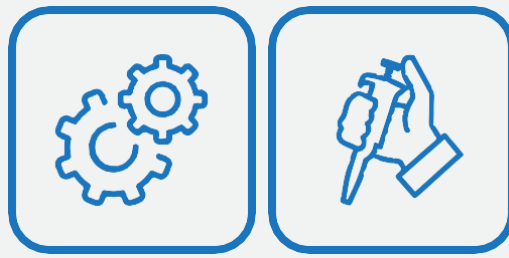
# System Automation

## Open-Platform Testing With Complete End-to-End Automation

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



Fully Automated

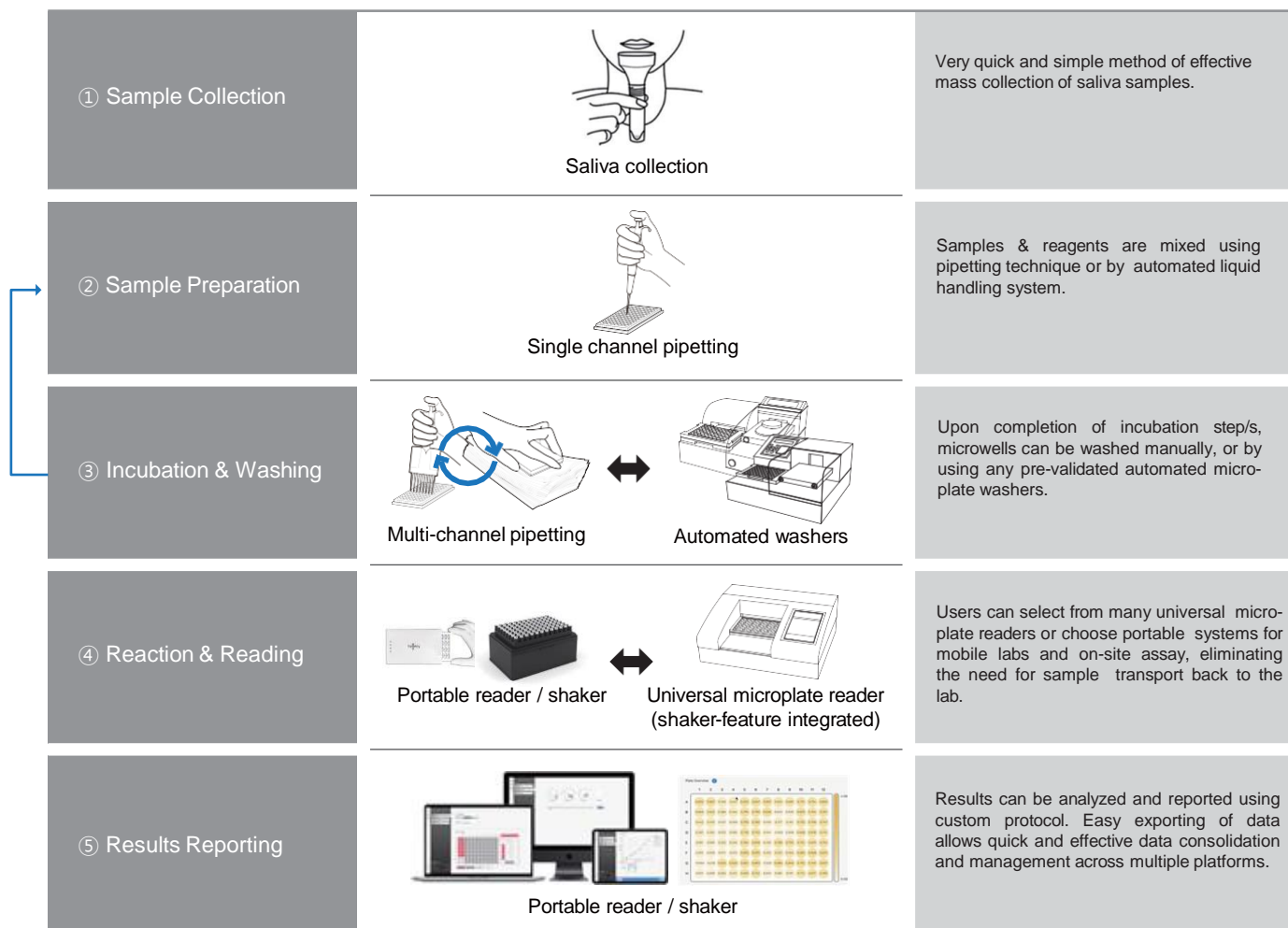


Semi-Automated  
(Various Systems)

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

# ACCEL ELISA® Workflow Automation

## Manual and Semi-Automated Workflow



## Complete end-to-end assay (Full Automation)

Fully-Automated, High-Throughput, Open-Platform System

- Eliminates variations that occur with manual operations and technician variability
- Offers walk-away “sample-in, results-out” automation workflow
- Has a small laboratory footprint. Simultaneously process 2 x 96 microwell plates
- Ideal for new or existing testing center & hospitals requiring optimal workflow efficiency under high-stress demand situations.

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



DS2 System

# Specifications

ACCEL ELISA® COVID-19 Saliva Antigen test is a rapid ELISA for the qualitative detection of nucleocapsid protein (antigens) of SARS-CoV-2 present in saliva sample.






Specimen	30~50 µL of saliva
Testing time	95 mins (1.5 hrs)
Packaging unit	96 Tests/Kit (92 samples)
Storage condition	2 ~ 8°C

※ Product package contains 1 well-plate and 9 reagents







# Accessories needed in every system (per kit)

## General Accessories

Item	Saliva collection tube	Test tube	Pipette tip	Single channel Pipette	Vortex
Unit / Specification	92 units	96 ea	Dedicated tips for each system	Delivering single sample by µL scale	-
Image					

## Accessories required for manual and semi-automated platform

Item	Reservoir	Paper towel
Unit / Specification	Dedicated Reservoirs for each system	1 pack
Image		

Item	Conventional 96 well plate for mixing samples	Multi-channel pipette
Unit / Specification	1 ea	Simultaneously delivering multiple samples by µL scale
Image		

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



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