

COVID-19 Ag

Microfluidic Qualitative Immunoassay

The **FREND™ COVID-19 Ag** is an easy-to-use fluorescence immunoassay (FIA) using the FREND™ System designed for the qualitative detection of the **nucleocapsid protein of SARS-CoV-2** directly from individuals suspected with COVID-19. The FREND™ COVID-19 Ag demonstrates reliable results in 3~4 minutes with **one drop or 35 µL** of sample. No complicated process or training is required, thereby improving workflow efficiency.

Fast

3~4
mins

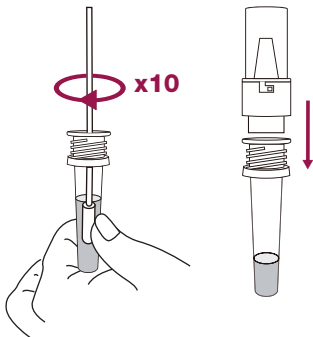
Easy

3
steps

Monitoring

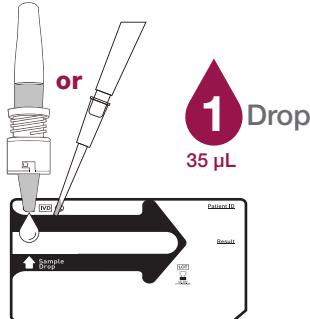
LIS

Steps



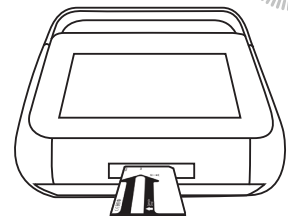
STEP 01.

Rotate a swab specimen in a lysis tube and attach a filter dropper.



STEP 02.

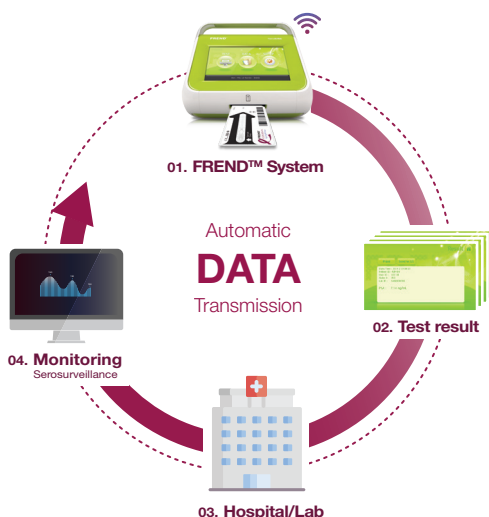
Add 1 drop (dropper) or 35 µL (pipette) of the sample.



STEP 03.

Insert the cartridge and get results in 3~4 minutes.

Laboratory Information System Connectivity



In the event of a pandemic, the management of a vast amount of clinical results is important. As many laboratories face challenges in effective arrangement of the essential information⁽¹⁾, the **FREND™ System** provides the following advantages:

- Paperless
- Time-saving
- Automatic Data Transfer & Collection
- Convenient Data Management
- Can help monitoring (serosurveillance)

Clinical Performance Evaluation

A total of 109 clinical samples (34 positive and 75 negative) confirmed with RT-PCR were tested with the FREND™ COVID-19 Ag of which 94.12% PPA* and 100.00% NPA* were demonstrated.

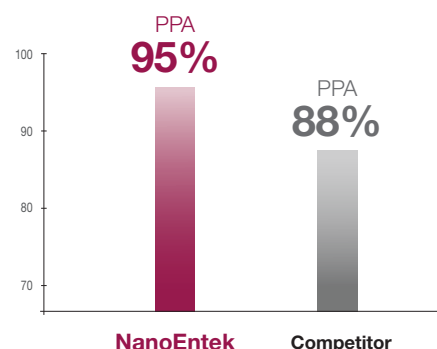
Reference Method: RT-PCR		
FREND™ COVID-19 Ag	PPA*	94.12% (32/34)
	NPA*	100.00% (75/75)



*Positive Percent Agreement (PPA), Negative Percent Agreement (NPA)

In the test conducted at **S Hospital, Italy**, with a total of 100 samples (60 positive and 40 negative) confirmed with RT-PCR, the FREND™ COVID-19 Ag showed a higher performance with 95.00% PPA in comparison to the competitor's with 88.33% PPA.

Reference Method: RT-PCR			
		NanoEntek	Competitor
FREND™ COVID-19 Ag	PPA*	95.00% (57/60)	88.33% (53/60)
	NPA*	100.00% (40/40)	-



Specification

Item	Specification
Assay principle	Fluorescence immunoassay
Specimen	Nasopharyngeal swab
Sample volume	1 drop (filter dropper) / 35 µL (pipette)
Time to result	3~4 mins
Quantity	20 tests/kit
Storage condition	2 ~ 30 °C (35 ~ 86 °F)



Ordering Information

Product	Cat. No.
FREND™ System	F10
FREND™ COVID-19 Ag	FRCOG 020P

Related Products

Cat. No.	Product	Quantity (tests/kit)
EPCO19 100	COVID-19 RT-PCR Kit	100
FRCGFL 020	COVID-19 Ag+FLU A&B	20
FRCOA 020	COVID-19 Total Ab**	20
FRCOD 020	COVID-19 IgG/IgM Duo	20
FRCOS 020	COVID-19 SP	20

** FDA EUA Approved



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