

EMERGENCY
USE
AUTHORIZATION

FDA

FREND™ System

COVID-19 total Ab

Microfluidic Qualitative Immunoassay

The FREND™ COVID-19 total Ab is a point-of-care testing (POCT) which can be used to check whether patient has developed immune response to the **nucleocapsid protein of SARS-CoV-2** using human plasma. For COVID-19 total Ab, its detection is based on a fluorescent immunoassay showing qualitative result.

Fast

3

minutes

Easy

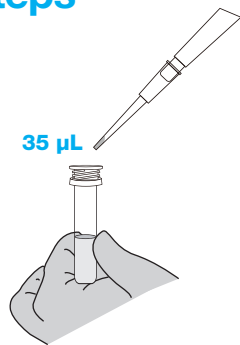
3

steps

Monitoring

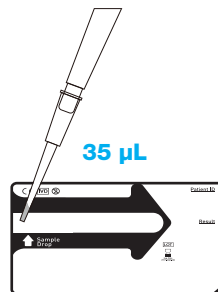
LIS

Steps



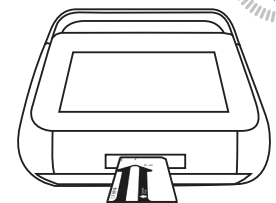
STEP 01.

Dilute sample.



STEP 02.

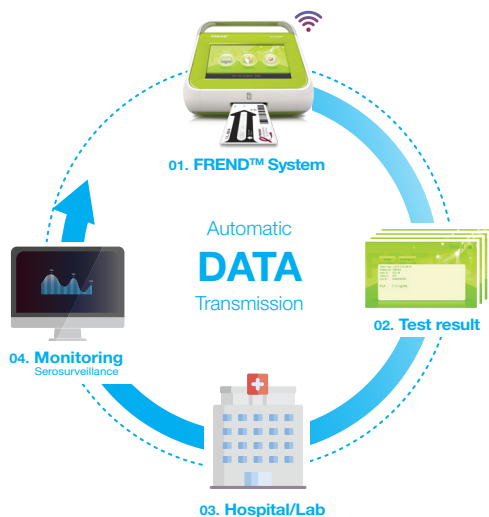
Add 35 µL of the diluted sample.



STEP 03.

Insert the cartridge and get results.

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)

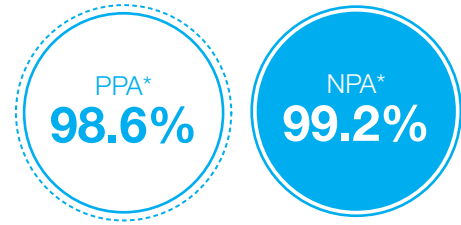
Reference

(1) Division of Laboratory Systems (DLS), Clinical Laboratory COVID-19 Response Call

Clinical Performance Evaluation

The results of the total 347 clinical samples (219 RT-PCR confirmed positive SARS-CoV-2 and 128 negative/pre-COVID-19) are presented in the table below.

Method		RT-PCR confirmed/prior to COVID-19	
		Positive	Negative
FREND™ COVID-19 total Ab	Positive	216	1
	Negative	3	127
Total		219	128



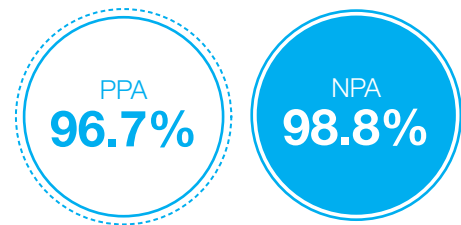
*Positive Percent Agreement (PPA), Negative Percent Agreement (NPA)

Method		219 positive confirmed by RT-PCR				
		0~7 days	8~14 days	15~21 days	>21 days	UNK
FREND™ COVID-19 total Ab	Positive	34	25	13	135	9
	Negative	3	0	0	0	0
Total		37	25	13	135	9
PPA		(34/37) 91.9%	(25/25) 100%	(13/13) 100%	(135/135) 100%	(9/9) 100%

Independent Clinical Agreement Validation

The FREND™ COVID-19 total Ab was tested on August 19, 2020 at the Frederick National Laboratory for Cancer Research (FNLCR) sponsored by the National Cancer Institute (NCI). The total of 110 clinical specimens were tested.

Method		By comparator method confirmed	Collected prior to COVID-19
		Positive	Negative
FREND™ COVID-19 total Ab	Positive	29	1
	Negative	1	79
Total		30	80



Specification	
Item	Specification
Assay principle	Fluorescence immunoassay
Specimen	K2- EDTA Plasma
Sample volume	35 µL
Reaction time	< 3 min
Quantity	20 tests/kit
Storage condition	2 ~ 8 °C (35 ~ 46 °F)



Ordering Information

Product	Cat. No.	CPT Code
FREND™ System	F10	-
FREND™ COVID-19 total Ab	FRCOA 020	86769

* COVID-19 total Ab is FDA EUA approved. For US sales only.



Scan for more information.

NanoEntek, Inc.

Head Office

12F, 5, Digital-ro 26-gil, Guro-gu, Seoul, 08389, Korea
Tel:+82-2-6220-7940/Fax:+82-2-6220-7999

NanoEntek America, Inc.

Waltham, MA, USA Tel: +1-781-472-2558

NanoEntek Bio-Technology(Beijing) Ltd.

Fengtai District, Beijing Tel: +86-10-5920-7980

website

www.nanoentek.com

e-mail

sales@nanoentek.com