

iONEBIO, Inc.

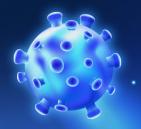
▶ Video Introduction on

iONE Neutralized Antibody Detection Kit





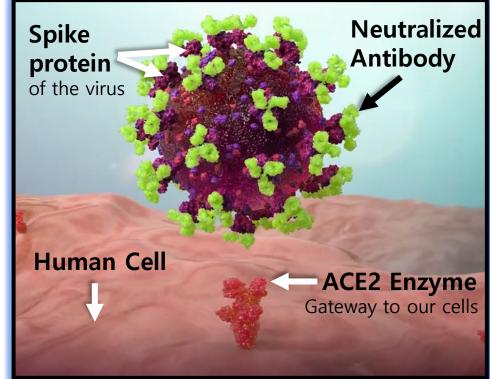


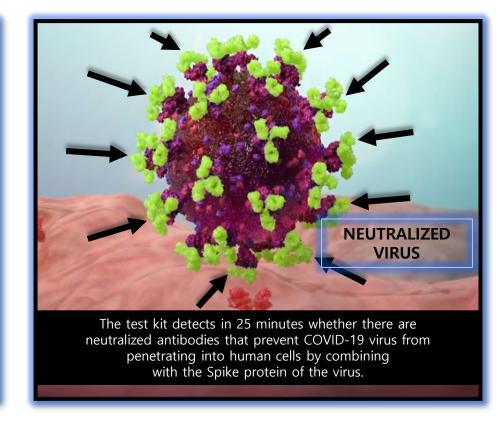


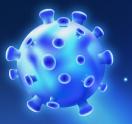
YouTube Video











1. Product Overview

iONE Neutralized Antibody Detection Kit



Specification

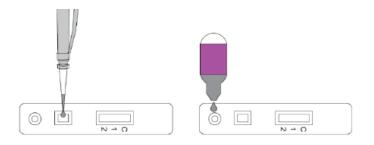
- Antibody Test Kit
- 25 tests per kit/box, sample diluent 1 bottle
- Simple Protocol
- Result analysis in 25~30 min
- Store at 2~35°C in the sealed pouch



2. Test Method

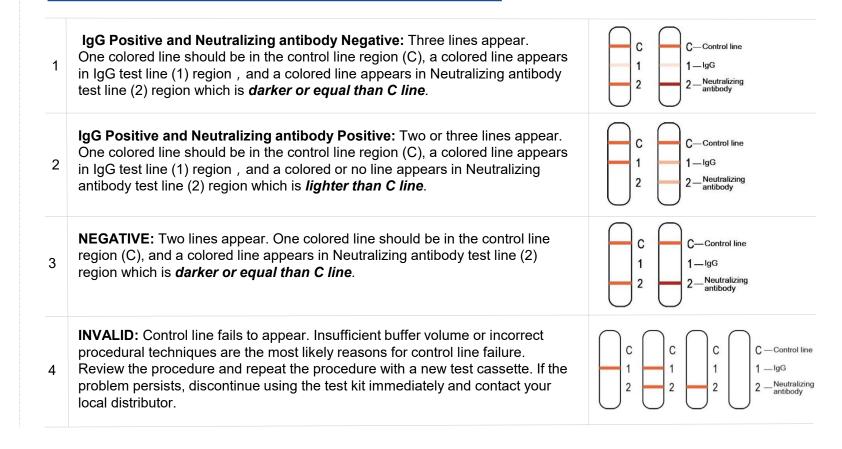
Simple Test Step

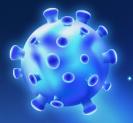
- 1. Add specimen into sample well.
- 2. Add diluent(100uL/3drops) into sample well



Result determination time: The result should be judged within 25~30 minutes after the sample is added into the sample loading well, and the result displayed after 30 minutes is invalid.

Result Analysis





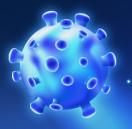
3. Test Benefit

Why Gold type kit is best for Neutralized antibody test

	Gold type	Fluorescent type	ELISA type 2 hour		
Time	20'	20'			
LoD(Limit of Detection)	104	10 ³	10 ²		
Accuracy	Medium (qualitative)	Medium (qualitative)	High (quantitative)		
Convenience	Good (No need for equipment)	Medium (Need an equipment)	Bad (Need an equipment)		
Application	Best	Medium	bad		

- It's important to verify above 10⁴ copies of antibodies for neutralized antibody test kit.
 - => Fluorescent type not necessary.
- For neutralized antibody test kit, "rapidity" is more important than accuracy.
- => ELISA type is good for research purpose but not appropriate for point of care settings due to its long analysis time.

"Gold type" test kit is the most optimal because of the speed and convenience



4. Product Features

iONE Neutralized Antibody Detection Kit



Product Features

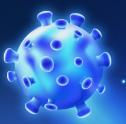
C

Results are available in 25~30 minutes

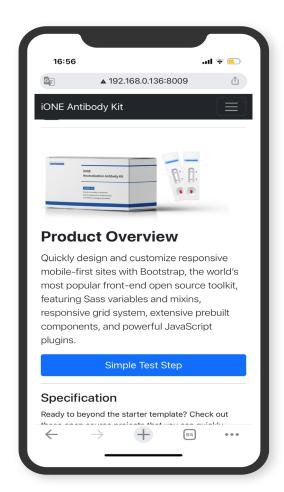
High Throughput (Over 10,000 tests/day)

(\$)

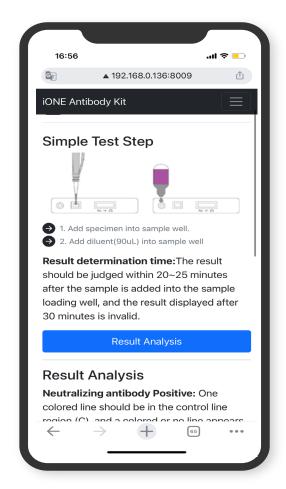
Cost-effective and large-scale solution



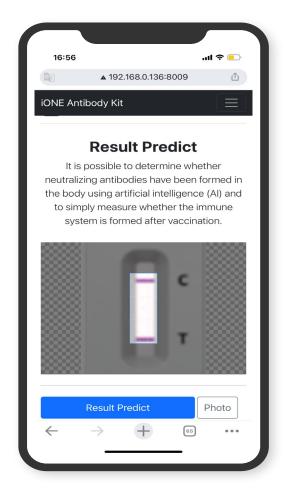
5. Al Deep Learning

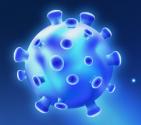




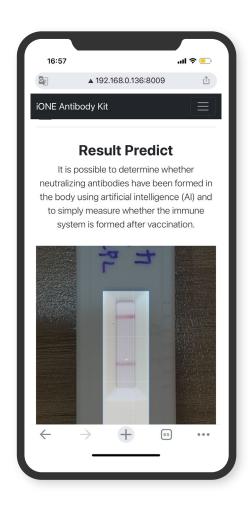


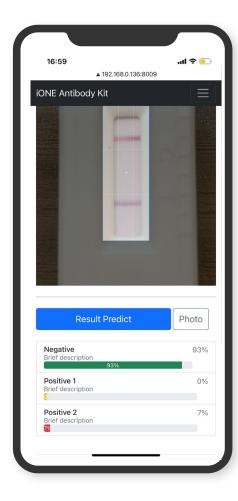




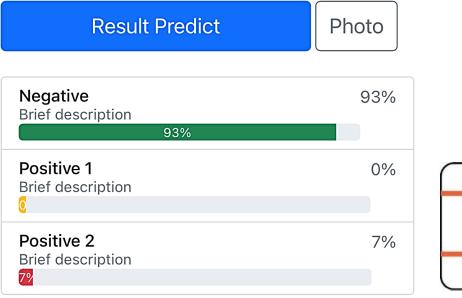


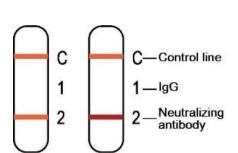
5. Al Deep Learning

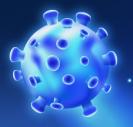




NEGATIVE: Two lines appear. One colored line should be in the control line region (C), and a colored line appears in Neutralizing antibody test line (2) region which is *darker or equal than C line*.







6. KNU Clinical Results



임상시험 결과 보고서

iONE Neutralized Antibody Detection Kit의 평가 Evaluation of iONE Neutralized Antibody Detection Kit

2021.05.06

강원대학교병원 진단검사의학과

서 인 범 (인)

- 1 -

Sample No.	RT-PC	RT-PCR Data		RT-PCR Test &	Serum collection	PRNT50 Data		아이뭰바이모 kit	
	E gene	RdRp gene	Result	confirmation date	date	Titer	Result	IgG	중화 참체
4-2	32.35	32.99	POS	2020-06-09	2020-06-29 (+20 days)	20	Pos	Pos	Pos
6-1	21.68	21.03	POS	2020-07-03	2020-08-10 (+38 days)	40	Pos	Pos	Pos
7-1	26.84	26.05	POS	2020-04-07	2020-05-19 (+42 days)	>320	Pos	Pos	Pos
8-1	21.69	20.63	POS	2020-03-05	2020-05-11 (+67 days)	>320	Pos	Pos	Pos
8-4	21.79	20.86	POS	2020-03-05	2020-04-09 (+35 days)	>320	Pos	Pos	Pos
8-5	19.4	20.6	POS	2020-08-10	2020-09-12 (+33 days)	>320	Pos	Pos	Pos
8-6	22.22	21.25	POS	2020-03-05	2020-05-04 (+60 days)	>320	Pos	Pos	Pos
8-7	30.19	28.94	POS	2020-04-07	2020-04-28 (+21 days)	>320	Pos	Pos	Pos
14-10	26.81	29.08	POS	2020-03-20	2020-04-03 (+14 days)	80	Pos	Pos	Pos
16-1	26.4	25.97	POS	2020-02-28	2020-03-14 (+15 days)	160	Pos	Pos	Pos
17-1	27.98	27.14	POS	2020-07-10	2020-07-27 (+17 days)	80	Pos	Pos	Pos
21-5	22.44	25.39	POS	2020-04-20	2020-05-01 (+11 days)	80	Pos	Pos	Pos
21-6	31.93	31.47	POS	2020-08-22	2020-08-31 (+9 days)	160	Pos	Pos	Pos
21-7	32.66	32.5	POS	2020-07-15	2020-07-27 (+12 days)	160	Pos	Pos	Pos
21-10	29.46	28.97	POS	2020-03-20	2020-04-01 (+12 days)	160	Pos	Pos	Pos
21-11	26.68	28.15	POS	2020-09-01	2020-10-09 (+ 30days)	>320	Pos	Pos	Pos
21-13	25.89	26.79	POS	2020-08-24	2020-09-23 (+30 days)	>320	Pos	Pos	Pos
21-15	32.85	33.13	POS	2020-09-02	2020-09-23 (+21 days)	>320	Pos	Pos	Pos
27-5	28.23	28.01	POS	2020-09-12	2020-10-12 (+30 days)	>320	Pos	Pos	Pos
30-3	28.63	30.33	POS	2020-02-22	2020-04-14 (+52 days)	20	Pos	Pos	Pos
30-5	32.53	32.24	POS	2020-06-05	2020-06-29 (+24 days)	40	Pos	Pos	Pos
32-3	33.99	34.48	POS	2020-06-05	2020-06-15 (+10 days)	20			
33-2	22.39	25.39	POS	2020-04-20	2020-04-28 (+8days)	40	lgG		
34-2	26.99	26.76	POS	2020-08-21	2020-08-30 (+9 days)	80			
35-4	21.91	20.79	POS	2020-09-10	2020-10-12 (+32 days)	160			
39-8	29.75	31.17	POS	2020-03-02	2020-05-04 (+63 days)	80	ı	1Ab)

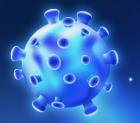


Positive Percent Agreement (PPA)= 37/39 **(94.87%)**

Negative Percent Agrement (NPA)= 15/15 (100%)

Positive Percent Agreement (PPA)= 37/39 (94.87%)

Negative Percent Agrement (NPA)= 15/15 (100%)



7. Who We Are



iONEBIO is a developer & manufacturer of **iLAMP Novel-CoV19 Detection Kit**, the 25 min test kit. As a K-bio company, we have been gaining expertise on molecular diagnosis, genetic analysis and other medical devices. The iLAMP Novel-CoV19 Detection Kit has secured a strong competitiveness edge having advantages in speed and accuracy.

2018 Genetic Analysis Certification (DNA Testing Lab & Platform)
Urine Analyzer Research & Development
Oral Cancer Detection Biomarker

2019 Oral Cancer Test Kit assigned for national task project (Cooperation with Seoul National University)
 3D Intra Oral Scanner Development – Prototype Finished

iLAMP Novel-CoV19 Detection Kit – CE marked
iLAMP High-Speed Test Kit – CE marked
FICS Platform in Paraguay
iONE-MASK face mask Manufacture

1 Other Virus & Influenza Test Kit Research & Development Exporting COVID-19 and other Influenza test kits to 50 countries Oral Cancer Test Kit Launching





8. Products of iONEBIO







RNA Extraction Machine



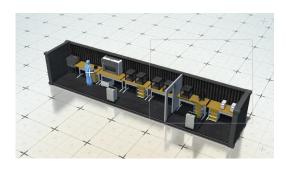
COVID-19 Test Kit



PCR Instrument



COV-19 Analysis Vehicle



Container Analysis Lab



Contact Information

Overseas Business Team

Lucy Lee/<u>lucy.lee@ionebio.com</u> (Support Language: English, Korean)

Danny Kim/ kh.kim@ionebio.com (Support Language: Chinese, Korean)

Pearl Pyun/ pearl.pyun@ionebio.com (Support Language: Spanish, Korean)

Website

ionebio@ionebio.com

www.ionebio.com

T: +82 31 360-1210

F: +82 31 360-1220