# **COVID-19 Products**

01

### iDetect<sup>™</sup> SARS-CoV-2 Detection Kit

- Testing time within 1 hour
- Equivalent to US CDC's reagents (Confirmed by University of Indonesia as per the request of Ministry of Health, Indonesia)

# 02

# Now Detect Mobile Real Time Isothermal Amplifier Device

- · Portable, inexpensive and optimized for field verification
- · Equivalent to Roche

# 03

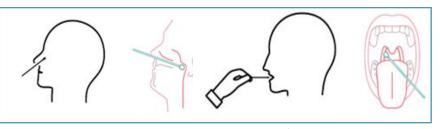
# NOW Detect COVID-19 IgM/IgG Rapid Test

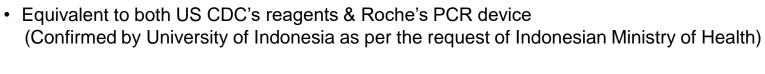
- · Within 15 minutes
- Storage: 2 ~ 30 °C

### **■** Recent Clinical Evaluation in November, 2020

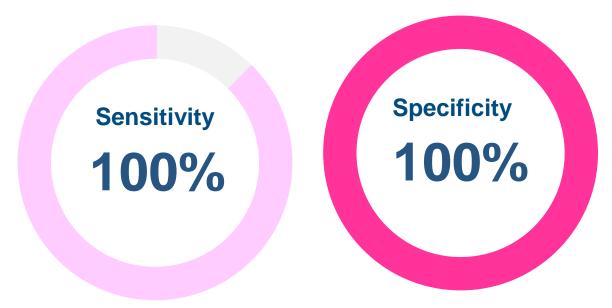












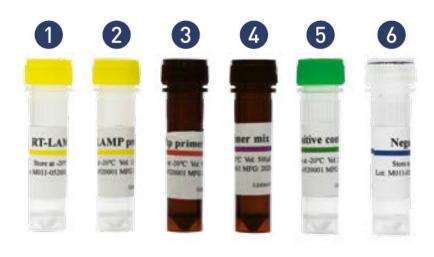
- Equivalent to US CDC's reagents & PowerchekTM 2019-nCoV Real-time PCR kit of KOREA Kogenebiotech
- The tests have been conducted with the following Instruments;
- A) 7500 Real-Time PCR Instrument System, ABI;
- B) QuantStudio<sup>™</sup> 6 Flex Real-Time PCR System, Applied Biosystems;
- C) LightCycler480, Roche



### iDetect<sup>™</sup> SARS-CoV-2 Detection Kit

RT-LAMP assay intended for the qualitative detection of RdRp and N gene for SARS-CoV-2 in upper (nasopharyngeal and oropharyngeal swabs) and lower respiratory tract (sputum) specimens from individuals suspected of COVID-19 by their healthcare provider.





# **Specifications**

- Specimens: Nasopharyngeal and Oropharyngeal swabs, Sputum
- · Detection: RdRp and N gene
- Testing time: within 1 hour (vs. PCR 4~6 hrs. required)
- · Packing Unit: 100 tests/Kit
- · Compatible with RT-PCR
- COVID-19 Confirmation Test

	Reagent	Volume / Quantity	Cao label
1, 2	RT-LAMP Premix	1,000μQ/2tubes	
3	RdRp primer mix	500μQ / 1 tube	•
4	N primer mix	500μQ / 1 tube	•
5	Positive control	200μQ / 1 tube	•
6	Negative control	200μQ / 1 tube	0

#### **■ Test Procedure**

Sample collection [upper/lower respiratory tracts]





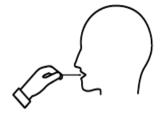
[Nasopharyngeal swab]:
Insert a swab deep into the nostril to collect sample.





[RNA Extraction] :

Extract RNA using the RNA Extraction Kit, according to the manufacturer's instructions.



#### [Oropharyngeal swab]:

Rub swab over both tonsillar pillars and posterior oropharynx to collect sample.





#### [RT-LAMP Measurement]:

Place tubes and operate the machine.



#### [Sputum]:

Cough out sputum carefully to prevent it mixing with oral secretions (saliva).





#### [Result Interpretation] :

Determine Positive/Negative

#### Performance

#### Result Interpretation

Case	PC+	NC+	Gene		Dogulto
			RdRp	N	Results
1	+	-	+	+	SARS-CoV-2 detected
2	+	-	-	-	SARS-CoV-2 not detected
3	+	-	+	-	SARS-CoV-2 detected
4	+	-	-	+	SARS-CoV-2 detected
5	+	+	+/-	+/-	Invalid / retest
6	-	+	+/-	+/-	Invalid / retest
7	-	-	+/-	+/-	Invalid / retest

PC : positive control, NC : negative control

#### Clinical Evaluation







# Now Detect Mobile Real Time Isothermal Amplifier Device

#### Features

- Portable optimized for field verification
- Compact, lightweight, easy-to-carry
- Rapid, real-time, accurate results within 10-40 min
- Simultaneous test up to 8 channels
- Battery-powered equipment
- Simultaneous test up to 8 channels
- Interconnecting with PC and smartphone
- No need thermal cycles (unlike PCR), highly skilled technicians





## Wide Application



### Now Detect vs. PCR

	LAMP	PCR
Temperature adjustment	Isothermal amplifications → Device small & simple	Heat cycling → large equipment
Detection speed	Fast (10~40 minutes)	Slow (~120 minutes)
Sample preparation	No need for pure nucleic acid	Need for pure nucleic acid
Detection method	Real time check of turbidity	Additional equipment required

### Specifications

Category	Specification	Remark
Device size	150mm * 169mm * 89mm (W * L * H)	
Weight	About 900g	Including 220g of battery
Power	High capacity battery built-in 12V-4000Ah	
Battery	Operable for over 6 hours	Built-in high capacity battery(5200mAh) anytime, anywhere with rechargeable
Form	Portable device	Real time
Operating temperature	40~80°C (1°C unit limit, temperature difference 0.5°C)	1°C step control, deviation within 0.5
Turbidity	Wavelength of 650nm	
Detection method	LAMP method	Isothermal amplification + detection + compact
Items	Up to 8 items	Multiple detectable simultaneously
Detection Speed	10min~40min	Fast
Check the result	*Device-LCD (4.3 LCD)  *PC-Program (USB)  *Smart phone-App (Bluetooth)	Accessible to PCs Smart phone



# NOW Detect COVID-19 IgM/IgG Rapid Test

NOW Detect COVID-19 IgM/IgG Rapid Test is a rapid immunochromatographic assay for the qualitative detection of specific antibodies to SARS-CoV-2 in human whole blood, serum or plasma.





## **Specifications**

· Specimens: Whole blood, Serum, Plasma

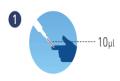
• Testing time: within 15 min.

Packing Unit: 25 tests/Kit

• Storage: 2 - 30 °C

### **■ Test Procedure**

#### Using Fingertip blood



[Collect specimen]: Collect the 10µl of capillary whole blood using a capillary tube or pipette.



[Load specimen] : Load the collected blood to the sample well.



[Add sample buffer] :
Add 4 drops of buffer into the
sample well.



[Read & Interpret] : Read the test result at 15 minutes.

#### Using Serum / plasma / whole blood



[Collect specimen]: Collect the 10µl of serum/ plasma/whole blood with micropipette.



[Load specimen] : Load the collected blood to the sample well.



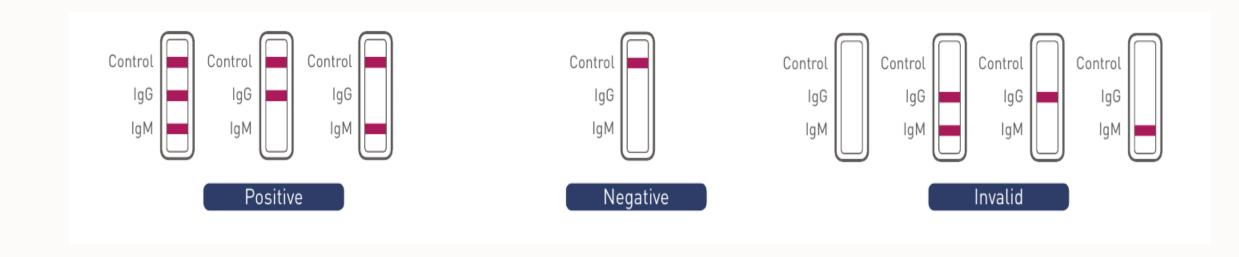
[Add sample buffer]:
Add 4 drops of buffer into the sample well.



[Read & Interpret]: Read the test result at 15 minutes.

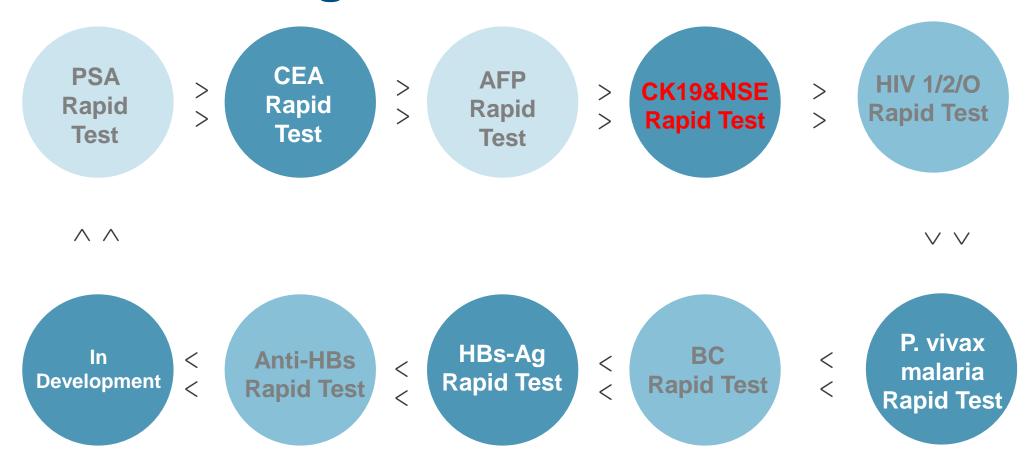
### **■ Result Interpretation**







# **Other Diagnosis Kits**





# **NOW CHECK Lung Cancer Rapid Test**

NOW CHECK CK19&NSE Rapid Test is a one-step rapid kit for the qualitative detection of lung cancer in serum. .





86.9%



# **Specifications**

- Detection: SCLC(small cell lung cancer) and NSCLC(nonsmall cell lung cancer)
- · Specimens: Serum
- Testing time: within 20 min.
- Packing Unit: 10 tests/Kit
- Storage: 2 30 °C



## **NOW CHECK Breast Cancer Rapid Test**

NOW CHECK Breast Cancer Rapid Test is the qualitative detection of breast cancer in serum. .





• Specimens: Serum

• Testing time: within 20 min.

Packing Unit: 10 tests/Kit

• Storage: 2 - 30 °C

