

1copyTM COVID-19 MDx Kit Professional



Fast Testing

8 times faster than standard RT-PCR



High Accuracy

Result accuracy comparable to standard RT-PCR



Smartphone Compatibility

Quick and easy result check on mobile app



Room Temp. Shipping

Storage and transport at room temperature with freeze-drying technology

Molecular Point-of-Care Testing

RT-PCR is a widely used molecular technique to amplify and detect genetic material with high accuracy. However, testing is not only complicated but is also limited to places like hospitals and laboratory facilities with specialized equipment.

1copy™ COVID-19 MDx Kit Professional opens doors to rapid and convenient COVID-19 testing in places such as hospitals, clinics, and schools where healthcare professionals are present. This will also allow accurate and reliable testing in places where lab facilities are limited, such as islands and mountain ranges.

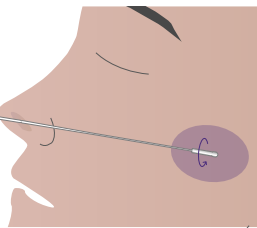
1drop provides fast and convenient molecular diagnostic methods and supports accurate COVID-19 testing in any kinds of environments. It is now time to join 1drop to expand testing capacity and effectively prevent the further spread of the global pandemic.



Simple Test Steps

01 Collect sample

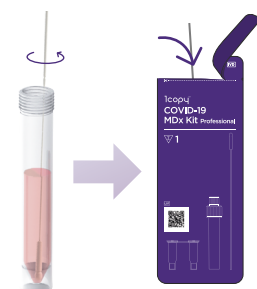
Insert swab into patient's nostril about 9cm to collect sample.



02 Place swab into sample tube and dispose

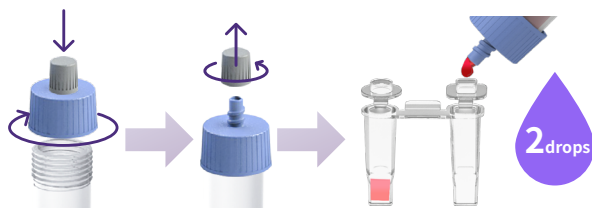
Submerge tip of swab into sample tube, mix 15 times, and dispose.

15times



03 Add sample to test tube

Close sample tube, open smaller cap, and let 2 drops of solution fall into test tube.



Caution

Required sample volume for a test is 50µl.



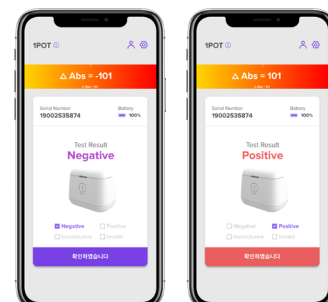
04 Start test

With device turned on and smartphone connected, insert test tube and close cover of device.



05 Check results

Check your test results on mobile app.



Results on Your Smartphone

Follow our informative video guide to take a tour of the mobile application.

1POT™ Professional



Download on the
App Store

GET IT ON
Google Play



Download App



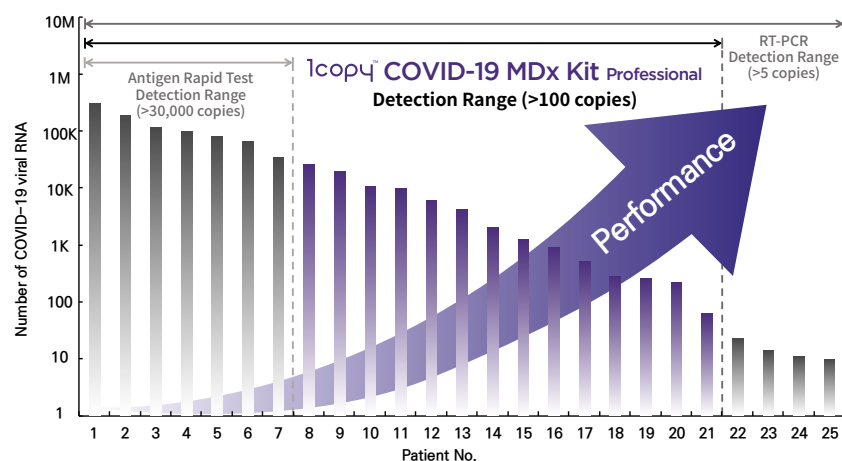
Accurate and Reliable

The application of loop-mediated isothermal amplification (LAMP) to 1copy™ COVID-19 MDx Kit Professional to amplify RNA with high accuracy and sensitivity allows diagnosis of low viral load samples from patients in early stages of infections.

*Scan the QR code to view the clinical evaluations conducted by an external facility.
Clinical evaluations will be regularly updated on our website.



Related Resources



LoD Comparison

Type	LoD (copies/rxn)
RT-PCR(Standard)	5~50
1copy™ COVID-19 MDx Kit Professional	100
Antigen Rapid	10,000~100,000

While the standard diagnostic methods with gene amplification provide highly accurate results, it takes as long as 2 to 3 hours to complete testing. Rapid antigen tests are faster due to the elimination of gene amplification, but are not able to diagnose low viral load samples or samples from early stage patients. 1copy™ COVID-19 MDx Kit Professional is a novel molecular-based COVID-19 diagnostic platform that offers both high accuracy and speed.

Comparison of Diagnostic Performance

While the standard diagnostic methods with gene amplification provide highly accurate results, it takes as long as 2 to 3 hours to complete testing. Rapid antigen tests are faster due to the elimination of gene amplification, but are not able to diagnose low viral load samples or samples from early stage patients. 1copy™ COVID-19 MDx Kit Professional is a novel molecular-based COVID-19 diagnostic platform that offers both high accuracy and speed.

Type		Molecular test	Standard test	Rapid Test
		1copy™ COVID-19 MDx Kit Professional (Isothermal PCR)	RT-PCR	Antigen test
Intended use		Detection of virus (viral test): test for current infection		
Sample		Nasal and/or nasopharyngeal, Oral and/or oropharyngeal sample		
Target		Viral RNA		Specific viral antigen
Limit of Detection (LoD)		100 copies/rxn	5 - 500 copies/rxn	10,000 - 100,000 copies/rxn
T I M E	RNA extraction	X	O (30min ~ 1h 30min)	N/A
	Turn Around Time	22 min	1h 30min	15 min ~ 30 min
	Total time	22 min	2h ~ 3h	15 min ~ 30 min
Reagent storage temp.		Room temp.	Frozen (Below -20°C)	Room temp.
Optical detection		Visible	Fluorescence	Visible
Detection chemistry		Loop-mediated isothermal amplification Gene amplification to detect presence of virus	RT-PCR amplification Gene amplification to detect presence of virus	Serology test Visualization of antibody accumulation in sample to detect presence of virus

Product Specifications

01 Reagent



Target gene	N, S
LoD	100copies/rxn
Test time	22 min.
Detection chemistry	Isothermal amplification
Reagent state	Solid
Sample	Viral materials from nasopharynx
Shelf life	6 months at room temp.

02 Device



Dimensions	85.0 X 59.2 X 70.3mm
Weight	220g
Connection	Bluetooth 5.0
Interface	Testing with device and mobile App
Battery	6500mAH (8 tests/ full charge, USB-C)
Testing condition	Heat up to 55-65°C from room temp (20-25°C) within 5 min.
Operating temp.	15~35°C
Operating humidity	10~90%RH