

“ Provide an optimal self-testing solution for COVID-19 ”

CLEO™ ONE

COVID-19 Molecular Self-Test



Based on innovative microfluidics and fluorescent-LAMP technology, our CLEO™ ONE COVID-19 test provides fast (30min.) and reliable molecular test results.



CONNECT



SWAB



SHAKE

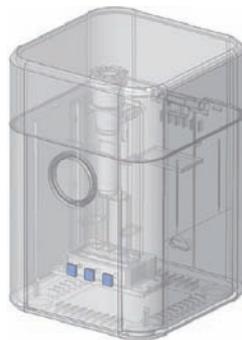
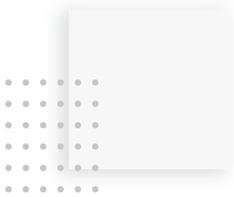
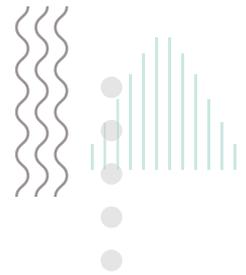


DETECT



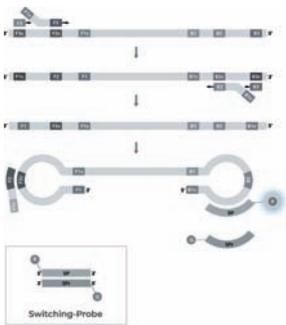
Precise Microfluidics Control

The Precise Microfluidics Control (PMC) technology enables non-experts to perform point-of-care molecular self-tests. The PMC technology can automatically move the sample to the reagent chamber without an electrical or mechanical process and minimize the volume deviation between tests by controlling the liquid flow within the error range of 1 μ L. In addition, the PMC technology fundamentally prevents external contamination, resulting in high accuracy and reproducibility.



Multi-position Fluorescence Sensing

The Multi-position Fluorescence Sensing (MFS) technology increases the accuracy of molecular diagnosis by reading fluorescence signals at multiple positions. The MFS technology can sensitively measure the fluorescence intensity transmitted from the reaction chambers and perform multiplex analyses of the fluorescence signals in real-time. The MFS technology can improve both point-of-care tests and self-test quality by achieving sensitivity & specificity comparable to high-performance level tests in the laboratory.



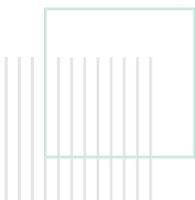
Switching-Probe™

The Switching-Probe™ technology can selectively detect target genes using a specially designed fluorescent probe to achieve specificity and sensitivity as to real-time PCR. The Switching-Probe™ technology solves the false-positive problem caused by non-specific amplification observed in isothermal amplification technology. In addition, this technology can detect multiple genes simultaneously.



CrystalMix™

The CrystalMix™ is a lyophilized reagent technology that can ensure the stability of diagnostic reagents favorable to point-of-care tests or self-test. You can conveniently perform molecular diagnostic tests without any preparation. The CrystalMix™ technology completely solves contamination problems, reproducibility, storage, and transportation in liquid-format molecular diagnostic products and applies to various point-of-care diagnostic platforms.



Test Protocol



1. Power on



2. Connect App. and CLEO™ ONE with bluetooth



3. Insert test cartridge into CLEO™ ONE



4. Take sample (Nasal swab)



5. Insert swab into the sample tube. Cut-off the top part of the swab.



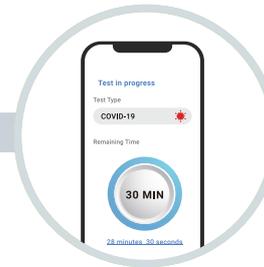
6. Shake tube 10 times



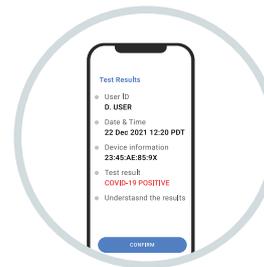
7. Combine the sample tube into the test cartridge



8. Close the lid



9. Test Running



10. Get results



With CLEO™ ONE, anyone at home can simply conduct a COVID-19 molecular test and get results in 30 minutes on a smartphone application.

Product Specifications

Model	CLEO™ ONE
Test capacity	1 test
Operating system	Android OS, iOS
Power supply	110 - 240V, 50/60Hz, 2A
Dimensions	72mm(L) X 72mm(W) X 104mm(H)
Weight	165g (5.8 oz)
Place of use	Home, School, Airport, Military, Office, Factory, Public facilities, etc.

- **SIMPLE** : Single-step, no liquid handling, no pipetting.
- **EASY** : Take nasal swab, place it in buffer, and then combine with cartridge
- **FAST** : Get result within 30 min.
- **ACCURATE** : Detect 2 target genes of COVID-19, simultaneously
- **COMPACT** : Portable size

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