

Environmental surveillance rapid PCR test

Fast and highly accurate air sample results



**Renvo™ Rapid PCR Test
used with AerosolSense Sampler**

Benefits

- SARS-CoV-2 results in 30 minutes
- Small, portable, easy to use design
- Simple workflow
 - Collect sample from AerosolSense Sampler
 - Elute sample
 - Load sample
 - Read results
- Comparable sensitivity to standard lab-based PCR
- Easy storage

The Thermo Scientific™ Renvo™ Rapid PCR Test is used with the Thermo Scientific™ AerosolSense™ Sampler for fast and highly accurate environmental air sample results in just 30 minutes. The combination of air surveillance and PCR testing provides customers a way to monitor and test indoor air onsite for SARS-CoV-2.

For environmental surveillance use only, not for diagnostic purposes.

Renvo starter kit

- Reusable dock (1), reusable stand (1) and power cord
- Buffer* (25): single-use vial of solution containing 5 mL of buffer with dimethyl sulfoxide and < 0.01% sodium azide
- Transfer pipette* (25): single-use, fixed volume pipette used to transfer sample from the SARS-CoV-2 Buffer vial into the test cassette.
- SARS-CoV-2 test cassette* (25): single-use, foil-pouched with desiccant and test cassette containing lyophilized reagents for the targeted amplification and detection of viral nucleic acid
- Cartridge adapter* (25): Single-use plastic assembly that is filled with buffer and screwed to Thermo Scientific™ AerosolSense™ Sample Cartridge for elution and testing of sample.
- AerosolSense Sample Cartridge* (25): Single-use assembly used for collection of in-air pathogens with the AerosolSense Sampler.
- SARS-CoV-2 high positive, low positive and negative control swab* (1 each): DNA-based synthetic oligo dried onto a swab above the limit of detection of the test or buffer solution dried onto a swab.

***Included in the Renvo test kit. AerosolSense Sampler sold separately.**

The technology

Oscillating Amplification Reaction (Oscar™), proprietary PCR technology, enables rapid exponential amplification while reducing overall thermocycling times. The Renvo SARS-CoV-2 Test is a nucleic acid amplification test (NAAT) for detection of SARS-CoV-2 viral RNA in approximately 30 minutes. To perform the test, the user inserts a Renvo™ SARS-CoV-2 test cassette into the Renvo Dock, which detects and identifies the cassette. Then the AerosolSense™ sample cartridge (containing the air sample) is added to the SARS-CoV-2 buffer to elute the sample. An aliquot of the SARS-CoV-2 buffer containing the sample is then dispensed into the Renvo SARS-CoV-2 test cassette.

The test cassette contains internal process positive and negative controls, Oscar™ reagents and a detection strip necessary for the full completion of the assay. After the user loads the sample into the test cassette and closes the Renvo Dock lid, embedded firmware in the dock controls fluid flow of the sample into the various chambers of the cassette, applies controlled voltage signals to the various cassette heaters (monitored by sensors within the dock) and provides visual status to the user with critical information, such as estimated time to read results.

Specifications

Description	Quantity
Renvo Dock	
Dimensions	14.5 x 9.9 x 9.7 cm (5.7 x 3.9 x 3.8 in)
Weight	619 g (<1.4 lb), including Dock, power adapter, and US power cord
Operating temperature	15°C to 30°C (59 to 86°F)
Electrical requirements	Dock power input: 12VDC ± 1VDC, 1A maximum AC Power Adapter Input: 100-240VAC, 50/60Hz AC Power Adapter Output: 12VDC, 2.08A, 25W maximum
Components	Accula Dock, AC power adapter, AC power cord
Throughput	~2 tests/hour per dock
Analysis time	~30 minutes
Renvo SARS-CoV-2 Test Kit	
Format	Test Cassette Kit
Detectable analytes	SARS-CoV-2 RNA
Sample type	Air sample from AerosolSense sample cartridge
Technology	RT-PCR
Control sets	High/low/neg
Shelf life	18 months from date of manufacture
Storage requirements	15°C to 30°C (59 to 86°F)

* Asterisked text or other footnote

Learn more at thermofisher.com/renvo
 or email us at support.apd@thermofisher.com

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