



TaqPath COVID-19 Combo Kit

An end-to-end, real-time PCR multiplex diagnostic solution for COVID-19

In response to the SARS-CoV-2 outbreak, Thermo Fisher Scientific worked rapidly to develop a real-time PCR multiplex diagnostic kit under emergency use authorization (EUA) to enable clinical and public health laboratories to quickly diagnose COVID-19, which is caused by SARS-CoV-2 infection.

The Applied Biosystems™ TaqPath™ COVID-19 Combo Kit is a sensitive, scalable *in vitro* diagnostic solution that contains both the assays and the controls needed for the real-time PCR detection of RNA from SARS-CoV-2.

Features of the TaqPath COVID-19 Combo Kit

- Multitarget design compensates for emerging SARS-CoV-2 mutations and variants, helping to provide confidence in your results
- Can signal the presence of the S-gene advantage for potential early identification of the Omicron variant (B.1.1.529)
- Authorized on some of the most-used real-time PCR instruments in the world
- Authorized for use with six specimen types, requiring only 200 to 400 µL of sample
- Includes Applied Biosystems™ COVID-19 Interpretive Software, which automatically converts genetic analysis data into a readable report, helping reduce risk of user interpretation error

REQUIRED



Sample collection

- Samples from patients, including:
- Bronchoalveolar lavage (BAL)
 - Mid-turbinate swabs
 - Nasal swabs
 - Nasopharyngeal swabs
 - Nasopharyngeal aspirate (nasal aspirate)
 - Oropharyngeal swabs



Sample preparation

- Thermo Scientific™ KingFisher™ Flex Purification System with Applied Biosystems™ MagMAX™ Viral/Pathogen II Nucleic Acid Isolation Kit
- Manual extraction using an Invitrogen™ Magnetic Stand-96 with MagMAX Viral/Pathogen II Nucleic Acid Isolation Kit



Real-time PCR

- Applied Biosystems™ 7500, 7500 Fast, 7500 Fast Dx, QuantStudio™ 5 (0.1 mL 96-well, 0.2 mL 96-well, or 384-well block), or QuantStudio™ 7 Flex (384-well block) instruments
- Applied Biosystems™ TaqPath™ COVID-19 Combo Kit
- Applied Biosystems™ TaqPath™ 1-Step Multiplex Master Mix (No ROX)



Analysis and report

Report generated using Applied Biosystems COVID-19 Interpretive Software

Intended use of the products mentioned in this workflow graphic vary. For specific intended use statements, please refer to the instructions for use.

Figure 1. End-to-end workflow for the *in vitro* diagnosis of 94 specimens in under 3 hours, or 382 specimens in under 6.5 hours, using a combination of a single KingFisher purification system and an Applied Biosystems real-time PCR system.

The TaqPath COVID-19 Combo Kit contains 1,000 reactions for maximum throughput. Each kit includes:

- TaqPath COVID-19 RT-PCR Kit
 - Multiplex real-time PCR assay targeting SARS-CoV-2 *orf1-ab*, S gene, and N gene
 - MS2 phage control
- TaqPath COVID-19 Control
 - RNA control kit specific for the SARS-CoV-2 genomic regions targeted by the assay
- TaqPath COVID-19 Control Dilution Buffer

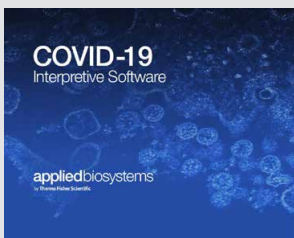
This kit has been authorized for use on the following Applied Biosystems real-time PCR instruments:

- QuantStudio 5 Real-Time PCR Systems (96-well 0.1 mL and 0.2 mL, and 384-well block)
- QuantStudio 7 Flex Real-Time PCR System (384-well block)
- 7500 Fast Dx Real-Time PCR System
- 7500 Fast Real-Time PCR System
- 7500 Real-Time PCR System

Existing users of these systems will need to install the latest COVID-19 Interpretive Software prior to running the kit. Contact our technical support team using the information below, and they will help you download and install the newest software.

Questions? Contact or email

instrumentsservices@thermofisher.com



COVID-19 Interpretive Software helps your lab decrease analysis and interpretation time and reduce risk of user interpretation error:

- Automatically interprets genetic analysis results from the TaqPath COVID-19 Combo Kit
- Automatic QC check performed against all controls on the plate, following instrument data analysis
- Software generates a report that covers each specimen

Ordering information

Product	Components	Quantity	Cat. No.
TaqPath COVID-19 Combo Kit	TaqPath COVID-19 RT-PCR Kit (1,000 reactions)	1,000 reactions	A47814
	TaqPath COVID-19 Control (2 tubes)		
	TaqPath COVID-19 Control Dilution Buffer (2 tubes)		
TaqPath 1-Step Multiplex Master Mix, No ROX		10 mL	A28523



To learn more and for a full list of products to perform the required workflow, go to thermofisher.com/covid19eua

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