

TaqPath COVID-19 RNase P Combo Kit 2.0

A PCR-based COVID-19 test with an advanced multi-target assay design and RNase P control for human sample confirmation

For use with:

- Applied Biosystems™ QuantStudio™ 5 Real-Time PCR System (96-well, 0.2 mL)
- Applied Biosystems™ QuantStudio™ 7 Flex Real-Time PCR System (384-well)
- Applied Biosystems™ MagMAX™ Viral/Pathogen II Nucleic Acid Isolation Kit
- Thermo Scientific™ KingFisher™ Flex Purification System

This document lists all instruments, consumables, and reagents recommended and required for instrument installation, training, and use of the Applied Biosystems TaqPath COVID-19 RNase P Combo Kit 2.0. Please review this list carefully to ensure all necessary materials are available before installation and training dates. Missing materials can delay your setup process. Intended uses of the products mentioned vary. For specific intended use statements, please refer to the product labels. Find the instructions for use (IFU) approved for your country at [thermofisher.com/findyourifu](https://www.thermofisher.com/findyourifu).

Ordering information

| Product | Supplier | Storage | Cat. No. |
|---|---------------------------------|----------------------|----------|
| TaqPath COVID-19 RNase P Combo Kit 2.0 | Thermo Fisher Scientific | Details below | |
| Includes: TaqPath COVID-19 RNase P Assay 2.0 | | | |
| • Multiplex assay with 8 total targets across 3 genomic regions (<i>orf1a</i> , <i>orf1b</i> , and N gene) | | -30°C to -10°C | A51333 |
| • RNase P assay (control) | | | |
| TaqPath COVID-19 Control Dilution Buffer | | | |
| TaqPath COVID-19 Plus Control | | -20°C | |
| TaqPath 1-Step Multiplex Master Mix (No ROX) | | -5°C to -30°C | A28523 |

Required and recommended materials not supplied

Real-time PCR instruments

Ordering information

| Product | Supplier | Cat. No. |
|---|--------------------------|---|
| Real-time PCR instruments | | |
| QuantStudio 5 Real-Time PCR Instrument (96-well, 0.2 mL block; used with QuantStudio Design and Analysis Desktop Software v1.5.1) | Thermo Fisher Scientific | A28569 (with laptop computer) A28574 (with desktop computer) A28139 (instrument only) |
| QuantStudio 7 Flex Real-Time PCR Instrument (384-well; used with QuantStudio Design and Analysis Desktop Software v1.3) | Thermo Fisher Scientific | 4485695 (with laptop computer) 4485701 (with desktop computer) |

| Product | Supplier | Storage | Cat. No. |
|---|--------------------------|---------|----------|
| Instrument calibration plates (QuantStudio 5 system, 96-well, 0.2 mL) | | | |
| QuantStudio 3/5 Spectral Calibration Plate 1 (FAM, VIC, ROX, SYBR dyes), 96-well, 0.2 mL | Thermo Fisher Scientific | -20°C | A26331 |
| QuantStudio 3/5 Spectral Calibration Plate 2 (ABY, JUN, Mustang Purple dyes), 96-well, 0.2 mL | Thermo Fisher Scientific | -20°C | A26332 |
| Instrument calibration plates (QuantStudio 7 Flex system, 384-well) | | | |
| ABY Dye Spectral Calibration Plate for Multiplex qPCR, 384-well | Thermo Fisher Scientific | -20°C | A24736 |
| JUN Dye Spectral Calibration Plate for Multiplex qPCR, 384-well | Thermo Fisher Scientific | -20°C | A24733 |

| Kits and reagents | | | |
|--|--------------------------|-------|--------|
| TaqPath 1-Step Multiplex Master Mix (No ROX) | Thermo Fisher Scientific | -20°C | A28523 |

| Product | Analysis software used with the instrument | Compatible pathogen interpretive software |
|--|---|---|
| Data analysis and reporting software | | |
| QuantStudio 5 Real-Time PCR Instrument (96-well, 0.2 mL block) with instrument firmware v1.3.3 | QuantStudio Design and Analysis Desktop Software v1.5.1 | v1.1.0 (with assay panel code plug-in: C19-RNaseP-EUA_QS5-9602_1.0.0) |
| QuantStudio 7 Flex Real-Time PCR Instrument (384-well) with instrument firmware v1.0.4 | QuantStudio Design and Analysis Desktop Software v1.3 | v1.1.0 (with assay panel code plug-in: C19-RNaseP-EUA_QS7-384_1.0.0) |

Sample preparation

Ordering information

| Product | Supplier | Storage | Cat. No. |
|---|---|---------|--|
| KingFisher Flex Purification System with 96 Deep-Well Head and Deep-Well Heating Block | Thermo Fisher Scientific | RT | 5400630 |
| KingFisher Flex 96 Deep-Well Heating Block (if currently using standard block)* | Thermo Fisher Scientific | RT | 24075430 |
| KingFisher 96 Tip Combs for Deep-Well Magnets | Thermo Fisher Scientific | RT | 97002534, A48438, A48414 |
| 96-Well Microplates | Thermo Fisher Scientific | RT | 97002540, AB0726, AB1127, 136101 |
| MagMAX Viral/Pathogen II Nucleic Acid Isolation Kit (up to 2,000 preparations for 200 µL samples) | Thermo Fisher Scientific | RT | Recommended: A48383 |
| Nuclease-Free Water (not DEPC-treated) | Thermo Fisher Scientific or Fisher Scientific | RT | AM9932 |
| Ethanol, Absolute, Molecular Biology Grade or equivalent | Fisher Scientific | RT | BP2818100, BP2818500, BP28184 |

General laboratory equipment and consumables

Ordering information

| Product | Supplier | Storage | Cat. No. |
|--|--------------------------|---------|--|
| MicroAmp Optical 96-Well Reaction Plate with Barcode, 0.2 mL | Thermo Fisher Scientific | RT | 4306737, 4326659 |
| MicroAmp Optical 96-Well Reaction Plate, 0.2 mL | Thermo Fisher Scientific | RT | N8010560, 4316813 |
| MicroAmp Optical 384-Well Reaction Plate with Barcode | Thermo Fisher Scientific | RT | 4309849, 4326270, 4343814 |
| MicroAmp Optical 384-Well Reaction Plate | Thermo Fisher Scientific | RT | 4343370 |
| MicroAmp Optical Adhesive Film | Thermo Fisher Scientific | RT | 4311971, 4360954 |
| MicroAmp Clear Adhesive Film | Thermo Fisher Scientific | RT | 4306331 |
| MicroAmp Adhesive Film Applicator | Thermo Fisher Scientific | RT | 4333183 |
| MicroAmp Optical Film Compression Pad | Thermo Fisher Scientific | RT | 4312639 |
| Sterile aerosol barrier (filtered) pipette tips | Thermo Fisher Scientific | RT | thermofisher.com/ pipettetips |

| Product | Supplier | Recommended product | Cat. No. |
|---|--------------------------|--|-----------|
| 1–10 µL single channel adjustable-volume pipette | Thermo Fisher Scientific | F1-ClipTip Variable Volume Single Channel Pipette (1–10 µL) | 4641320N |
| 10–100 µL single channel adjustable-volume pipette | Thermo Fisher Scientific | F1-ClipTip Variable Volume Single Channel Pipette (10–100 µL) | 4641200N |
| 100–1,000 µL single channel adjustable-volume pipette | Thermo Fisher Scientific | F1-ClipTip Variable Volume Single Channel Pipette (100–1,000 µL) | 4641230N |
| Multichannel pipette with 5–20 µL volume range | Thermo Fisher Scientific | E1-ClipTip Equalizer 384 8-Channel (2–125 µL) | 4672060BT |
| | | or | or |
| | | E1-ClipTip Equalizer 384 12-Channel (2–125 µL) | 4672070BT |

Ordering information (cont.)

| Product | Supplier | Recommended product | Cat. No. |
|--|--------------------------|---|---------------------------------------|
| Multichannel pipette with 50–1,000 µL volume range (optional) | Thermo Fisher Scientific | E1-ClipTip Equalizer 8-Channel Pipette (15–1,250 µL) (optional) | 4672100BT |
| 10–300 µL multichannel pipette | Thermo Fisher Scientific | E1-ClipTip Equalizer 8-Channel (10–300 µL) | 4672080BT |
| 30–850 µL multichannel adjustable-volume pipette, 12-well (optional) | Thermo Fisher Scientific | E1-ClipTip 12-Channel Pipette (30–850 µL) (optional) | 4671090BT |
| 15–1,250 µL single or multichannel adjustable-volume pipette (optional) | Thermo Fisher Scientific | E1-ClipTip Electronic 1-Channel Pipette (15–1,250 µL) (optional) | 4670040BT |
| | | or E1-ClipTip Electronic 8-Channel Pipette (15–1,250 µL) (optional) | or 4671100BT |
| Aerosol-resistant barrier pipette tips, various sizes (1–1,250 µL) | Thermo Fisher Scientific | Aerosol-resistant barrier tips compatible with F1-ClipTip and E1-ClipTip pipettes | Recommended: 94420153, 94420813 |
| Centrifuge with rotor for microplates and deep-well plates | Thermo Fisher Scientific | Sorvall General Purpose Centrifuges, various | Various |
| Laboratory vortexer with plate pad | Thermo Fisher Scientific | Various | Various |
| Biosafety cabinet | Thermo Fisher Scientific | Herasafe 2030i Class 2 A2 Biological Safety Cabinet | 51032334 |
| | | or 1300 Series Class II, Type A2 Biological Safety Cabinet Package | or 1336 |
| PCR workstation (optional) | Fisher Scientific | Combination PCR workstation | 36-101-8894 36-101-8897 |
| Benchtop microcentrifuge to accommodate 1.5 mL tubes | Thermo Fisher Scientific | mySPIN 6 Mini Centrifuge | 75004061 |
| | | or Sorvall Legend Micro 21R Microcentrifuge, refrigerated | or 75002447 |
| –20°C freezer | Thermo Fisher Scientific | TSX Series High-Performance –20°C Manual Defrost Freezer or similar | TSX2320FA |
| 4°C refrigerator | Thermo Fisher Scientific | TSX Series High-Performance Laboratory Refrigerator or similar | TSX3005GA |
| Gloves | Fisher Scientific | Various | Various |
| Safety glasses | Fisher Scientific | Various | Various |
| Laboratory coat | Fisher Scientific | Various | Various |
| General purpose lab tissues/wipes | Fisher Scientific | Kimberly-Clark Professional Kimwipes Delicate Task Wipers | S47299 |
| Microcentrifuge tube rack for 1.5 mL tubes | Thermo Fisher Scientific | Flipper Microtube Rack for 1.5 mL and 2.0 mL Tubes | 8760, 8770-11, 8780 |
| Cold blocks or ice and ice buckets (to accommodate reagent tubes and RT-PCR plate) | Thermo Fisher Scientific | Benchtop coolers | 5116-1300 |
| | Fisher Scientific | and PCR cooler | and 05-403-00 |
| 1.5 mL RNase-free microcentrifuge tubes | Thermo Fisher Scientific | Microcentrifuge tubes, nonstick, RNase-free, 1.5 mL (250 tubes) | Recommended: AM12450 |
| | or Fisher Scientific | or Snap Cap Low Retention Microcentrifuge Tubes, 1.5 mL, graduated, sterile | or 21-402-903 |
| RNase-free conical tubes, 15 mL | Thermo Fisher Scientific | RNase-Free Conical Tubes, 15 mL (racked) (500 tubes) | Recommended: AM12500 |

Ordering information (cont.)

| Product | Supplier | Recommended product | Cat. No. |
|---------------------------------|--------------------------|--|-------------------------|
| RNase-free conical tubes, 50 mL | Thermo Fisher Scientific | RNase-Free Conical Tubes, 50 mL (racked) (200 tubes) | Recommended: AM12501 |
| Nalgene bottles | Thermo Fisher Scientific | Nalgene Square PETG Media Bottles (125 mL) | 342020-0125 |
| Reagent reservoirs | Thermo Fisher Scientific | Matrix Reagent Reservoirs, polystyrene; 100 mL, individually wrapped with divider | 95128085 |
| Serological pipettes | Thermo Fisher Scientific | Nunc Serological Pipettes, individually wrapped, paper/plastic peel packaging, plugged | 170357 or 170358 |
| Pipette filler | Fisher Scientific | S1 Pipet Filler | Various |
| 96-well plate holder | Thermo Fisher Scientific | MicroAmp Splash-Free 96-Well Base | 4312063 |
| Reagent dispenser (optional) | Thermo Fisher Scientific | Multidrop Combi Reagent Dispenser | Recommended: 5840300 |

Find out more at thermofisher.com/covid19evolved

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