

# TaqPath COVID-19, Flu A, Flu B Combo Kit

A single test to detect and differentiate SARS-CoV-2, influenza A, and influenza B

Applied Biosystems™ TaqPath™ COVID-19, Flu A, Flu B Combo Kit (Cat. No. A49868)

### For use with:

- Applied Biosystems™ 7500 Fast Dx Real-Time PCR Instrument
- Applied Biosystems™ QuantStudio™ 5 Real-Time PCR System (96-well, 0.2 mL)
- Applied Biosystems™ MagMAX™ Viral/Pathogen II Nucleic Acid Isolation Kit
- Thermo Scientific™ KingFisher™ Flex Purification System

This document lists all instruments, consumables, and reagents required for installing the instrument, training, and running an experiment for the detection of RNA from SARS-CoV-2, influenza A, and influenza B. 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 label.

**Note:** To avoid contamination, it is highly recommended that you have separate sets of pipettes for samples and extraction, PCR reaction setup, and any post-PCR processing. Ideally these steps should all be performed in separate laboratory spaces as well. Always follow necessary precautions when handling patient samples.

## Ordering information

| Product  | Supplier                        | Storage              | Cat. No.      |
|--|---------------------------------|----------------------|---------------|
| <b>TaqPath COVID-19, Flu A, Flu B Combo Kit</b>  | <b>Thermo Fisher Scientific</b> | <b>Details below</b> | <b>A49868</b> |
| Includes:  |                                 |                      |               |
| <b>TaqPath RT-PCR COVID-19, Flu A, Flu B Kit</b>   |                                 |                      |               |
| <ul style="list-style-type: none"> <li>• Multiplex assay targeting the SARS-CoV-2 S and N genes, flu A matrix gene, flu B matrix gene, and MS2</li> <li>• MS2 phage control</li> </ul> | <b>Thermo Fisher Scientific</b> | -30°C to -10°C       |               |
| <b>TaqPath COVID-19, Flu A, Flu B Control Kit</b>  |                                 |                      |               |
| <ul style="list-style-type: none"> <li>• COVID-19, Flu A, Flu B Controls</li> </ul>  | <b>Thermo Fisher Scientific</b> | Below -70°C          |               |
| <b>TaqPath Control Dilution Buffer</b>   | <b>Thermo Fisher Scientific</b> | -30°C to -10°C       |               |

The content provided herein may relate to products or workflows that have not been officially CE Marked or authorized by the US FDA or global health agencies, and is subject to change without notice; refer to current user manual for indications, warnings, and precautions. All validation data to support the TaqPath COVID-19, Flu A, Flu B Combo Kit has been completed and is currently under review by the Food and Drug Administration. Use of the TaqPath COVID-19, Flu A, Flu B Combo Kit is permitted per FDA Policy for Coronavirus Disease-2019 Test during the Public Health Emergency (Revised) released on May 11, 2020.

## Required materials not supplied

### Nucleic acid extraction

#### Ordering information

| Product  | Supplier                                      | Storage | Cat. No.  |
|--|---|---------|---|
| <b>Kits and reagents</b>   |   |         |   |
| MagMAX Viral/Pathogen II Nucleic Acid Isolation Kit (up to 2,000 preparations when 200 µL of sample is used) | Thermo Fisher Scientific                      | RT      | Recommended: A48383   |
| TaqPath 1-Step Multiplex Master Mix (No ROX)   | Thermo Fisher Scientific                      | -20°C   | A28521, A28522, A28523  |
| Ethanol, absolute (200 proof), ACS reagent-grade or equivalent   | Fisher Scientific                             | RT      | Recommended: BP2818100, BP2818500, BP28184                                  |
| Nuclease-Free Water (not DEPC-treated) or equivalent   | Thermo Fisher Scientific or Fisher Scientific | RT      | Recommended: AM9932 or BP2819-100, BP2819-1, BP2819-4, BP2819-10, BP2819-20 |
| <b>Automated processing tools</b>  |   |         |   |
| 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 Comb for Deep-Well Magnets   | Thermo Fisher Scientific                      | RT      | 97002534, A48438, A48414  |
| KingFisher Deep-Well 96 Plate  | Thermo Fisher Scientific                      | RT      | 95040450, A48305, A48424, 95040455  |
| 96-Well Microplate   | Thermo Fisher Scientific                      | RT      | 97002540, AB0796, AB1127, 136101  |

\* Included in Cat. No. 5400630.

### Real-time PCR

#### Ordering information

| Product  | Supplier                 | Storage | Cat. No.   |
|--|--------------------------|---------|--|
| <b>Data analysis and reporting software</b>  |                          |         |  |
| <b>Pathogen Interpretive Software v1.0</b>   |                          |         |  |
| <b>Compatible with:</b>  |                          |         |  |
| <ul style="list-style-type: none"> <li>7500 Fast Dx Real-Time PCR Instrument (SDS Software v1.4.1)</li> <li>QuantStudio 5 Real-Time PCR System (96-well, 0.2 mL block) (Design and Analysis v1.5.1)</li> </ul> | Thermo Fisher Scientific | N/A     | Contact us at 800-955-6288, option 3, option 1; or email at <a href="mailto:instrumentservices@thermofisher.com">instrumentservices@thermofisher.com</a> |
| <b>Real-time PCR instruments</b>   |                          |         |  |
| 7500 Fast Dx Real-Time PCR Instrument (used with SDS Software v1.4.1)  | Thermo Fisher Scientific | RT      | 4406984 (with laptop computer)<br>4406985 (with desktop computer)  |
| QuantStudio 5 Real-Time PCR System, 96-well, 0.2 mL block (used with QuantStudio Design and Analysis Desktop Software v1.5.1)  | Thermo Fisher Scientific | RT      | A28569 (with laptop computer)<br>A28574 (with desktop computer)<br>A28139 (instrument only)  |

## Real-time PCR

### Ordering information

| Product   | Supplier                 | Storage | Cat. No.                                  |
|---|--------------------------|---------|---|
| <b>Calibration plates (7500 Fast Dx Real-Time PCR Instrument)</b>   |                          |         |   |
| ABY Dye Spectral Calibration Plate for Multiplex qPCR, Fast 96-well, 0.1 mL   | Thermo Fisher Scientific | -20°C   | A24734                                    |
| JUN Dye Spectral Calibration Plate for Multiplex qPCR, Fast 96-well, 0.1 mL   | Thermo Fisher Scientific | -20°C   | A24735                                    |
| JUN Dye Spectral Calibration Plate for Multiplex qPCR, 96-well, 0.2 mL  | Thermo Fisher Scientific | -20°C   | A24737                                    |
| 7500 Fast Real-Time PCR Systems Spectral Calibration Kit I, 0.1 mL (contains background plate, region of interest (ROI) and calibration plates for FAM, JOE, NED, ROX, SYBR Green, TAMRA, and VIC dyes) | Thermo Fisher Scientific | -20°C   | 4360788<br>(if recalibration is required) |
| <b>Calibration plates (QuantStudio 5 (96-well, 0.2 mL) Real-Time PCR System)</b>  |                          |         |   |
| Region of Interest (ROI) and Background Plates, 96-well   | Thermo Fisher Scientific | -20°C   | 4432364                                   |
| 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                                    |

## General laboratory equipment and consumables

### Ordering information

| Product   | Supplier                 | Storage | Cat. No.   |
|---|--------------------------|---------|--|
| MicroAmp Fast Optical 96-Well Reaction Plate, 0.1 mL              | Thermo Fisher Scientific | RT      | 4346907  |
| MicroAmp Fast Optical 96-Well Reaction Plate with Barcode, 0.1 mL | Thermo Fisher Scientific | RT      | 4346906, 4366932   |
| MicroAmp Optical 96-Well Reaction Plate with Barcode, 0.2 mL      | Thermo Fisher Scientific | RT      | 4306737, 4326659   |
| MicroAmp Optical 96-Well Reaction Plate (no barcode), 0.2 mL      | Thermo Fisher Scientific | RT      | N8010560, 4316813  |
| MicroAmp Optical Adhesive Film                                    | Thermo Fisher Scientific | RT      | 4360954, 4311971   |
| MicroAmp Adhesive Film Applicator                                 | Thermo Fisher Scientific | RT      | 4333183  |
| Sterile Aerosol Barrier (Filtered) Pipette Tips                   | Thermo Fisher Scientific | RT      | <a href="https://www.thermofisher.com/pipettetips">thermofisher.com/<br/>pipettetips</a> |

**NOTE:** To avoid contamination, it is highly recommended that you have separate sets of pipettes for samples and extraction, PCR reaction setup, and any post-PCR processing. Ideally these steps should all be performed in separate laboratory spaces as well. Always follow necessary precautions when handling patient samples.

## General laboratory equipment and consumables, cont.

### Ordering information

| 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 in 5–20 µL volume range  | Thermo Fisher Scientific | E1-ClipTip Equalizer 384 8-Channel 2–125 µL                                       | 4672060BT                             |
|   |                          | or  | or                                    |
| Multichannel pipette in 50–1,000 µL volume range  | Thermo Fisher Scientific | E1-ClipTip Equalizer 384 12-Channel 2–125 µL                                      | 4672070BT                             |
|   |                          | 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  | or                                    |
|   |                          | E1-ClipTip Electronic 8-Channel Pipette (15–1,250 µL) (optional)                  | 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:<br>94420153,<br>94420813 |
| Centrifuge with rotor for microplates (to spin reaction mix before loading into instrument) | Thermo Fisher Scientific | Sorvall General Purpose Centrifuges, various                                      | Various                               |
| Laboratory mixer, vortex, or similar  | Thermo Fisher Scientific | LP Vortex Mixer   | 88880017TS                            |
| Biosafety cabinet   | Thermo Fisher Scientific | Herasafe 2030i Class 2 A2 Biological Safety Cabinets                              | 51032334                              |
| Biosafety cabinet   | Thermo Fisher Scientific | 1300 Series Class II, Type A2 Biological Safety Cabinet Packages                  | 1336                                  |
| Water bath  | Thermo Fisher Scientific | 2 L General Purpose Water Bath  | TSGP02                                |
| Incubator capable of reaching 65°C, with slatted shelves                                    | Thermo Fisher Scientific | Heratherm Advanced Protocol Microbiological Incubator                             | 51028067                              |
|   |                          | mySPIN 6 Mini Centrifuge  | 75004061                              |
| Benchtop microcentrifuge to accommodate 1.5 mL tubes  | Thermo Fisher Scientific | or  | or                                    |
|   |                          | Sorvall Legend Micro 21R Microcentrifuge, refrigerated                            | 75002447                              |
| –20°C freezer   | Thermo Fisher Scientific | TSX Series High-Performance –20°C Manual Defrost Freezers                         | TSX2320FA                             |
| –80°C freezer   | Thermo Fisher Scientific | TDE Series Ultra-Low Temperature Freezers   | TDE60086FA                            |
| 4°C refrigerator  | Thermo Fisher Scientific | TSX Series High-Performance Laboratory Refrigerator                               | TSX3005GA                             |
| Gloves  | Fisher Scientific        | Various   | Various                               |
| Safety glasses  | Fisher Scientific        | Various   | Various                               |
| Laboratory coat   | Fisher Scientific        | Various   | Various                               |

## General laboratory equipment and consumables, cont.

### Ordering information

| Product                                    | Supplier                 | Recommended product  | Cat. No.                |
|--|--------------------------|--|-------------------------|
| General purpose lab tissues/wipers         | 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        | Thermo Fisher Scientific | Benchtop coolers   | 5116-1300               |
|  | Fisher Scientific        | and<br>PCR cooler  | and<br>05-403-00        |
| 1.5 mL RNase-free microcentrifuge tubes    | Thermo Fisher Scientific | Microcentrifuge tubes, nonstick, RNase-free, 1.5 mL (250 tubes)                        | Recommended:<br>AM12450 |
|  | or<br>Fisher Scientific  | or<br>Snap Cap Low Retention Microcentrifuge Tubes, 1.5 mL, graduated, sterile         | or<br>21-402-903        |
| RNase-free conical tubes, 15 mL            | Thermo Fisher Scientific | RNase-Free Conical Tubes, 15 mL (racked) (500 tubes)                                   | Recommended:<br>AM12500 |
| RNase-free conical tubes, 50 mL            | Thermo Fisher Scientific | RNase-Free Conical Tubes, 50 mL (racked) (200 tubes)                                   | Recommended:<br>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 | 170355                  |
| Pipette filler                             | Fisher Scientific        | S1 Pipet Filler  | Various                 |
| 96-well plate holder                       | Thermo Fisher Scientific | MicroAmp Splash-Free 96-Well Base  | 4312063                 |
| 8-tube strip                               | Thermo Fisher Scientific | PCR Tubes & Caps, RNase-free, 0.2 mL (8-strip format)                                  | AM12230                 |
| Plate sealer                               | Thermo Fisher Scientific | ALPS5000 Automated Microplate Heat Sealer  | AB-5000                 |
| Reagent dispenser                          | Thermo Fisher Scientific | Multidrop Combi Reagent Dispenser  | 5840300                 |

Find out more at [thermofisher.com/covid19flu](https://thermofisher.com/covid19flu)

**Intended use of the products mentioned vary. For specific intended use statements, please refer to the product label.**

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