

TaqPath COVID-19, Flu A/B, RSV Combo Kit

A single test to detect and differentiate SARS-CoV-2, influenza A/B, and respiratory syncytial virus (RSV) A/B

Applied Biosystems™ TaqPath™ COVID-19, Flu A/B, RSV Combo Kit (Cat. No. A49867)

For use with:

- Applied Biosystems™ QuantStudio™ 5 Real-Time PCR System, 0.2 mL block
- Applied Biosystems™ QuantStudio™ 7 Flex Real-Time PCR System, 384-well block
- Applied Biosystems™ 7500 Fast Real-Time PCR System

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

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.
TaqPath COVID-19, Flu A/B, RSV Combo Kit	Thermo Fisher Scientific	Details below	A49867
Includes:			
TaqPath RT-PCR COVID-19, Flu A/B, RSV Kit			
<ul style="list-style-type: none"> • Multiplex assay targeting the SARS-CoV-2 S and N genes, influenza A/B matrix gene, RSV A/B, N gene/M gene, and bacteriophage MS2 • MS2 phage control 		-30°C to -10°C	
TaqPath COVID-19, Flu A/B, RSV Control			
<ul style="list-style-type: none"> • COVID-19, Flu A/B, RSV controls 		Below -70°C	
TaqPath Control Dilution Buffer			
		-30°C to -10°C	
TaqPath 1-Step Multiplex Master Mix, No ROX			
		-30°C to -10°C	

Required materials not supplied

Real-time PCR

Ordering information

Product	Supplier	Storage	Service contact
Data analysis and reporting software			
Pathogen Interpretive Software CE-IVD Edition v1.1.0* with the SAE Administrator Console Dx v1.0.0 and the appropriate assay panel for your instrument:			
<ul style="list-style-type: none"> Assay Panel** – C19-FluAB-RSV_7500-Fast_1.1.0 <ul style="list-style-type: none"> For 7500 Fast Real-Time PCR System (used with SDS Software v1.5.1 or 7500 Software v2.3), is preinstalled in the Pathogen Interpretive Software v1.1.0. 	Thermo Fisher Scientific	NA	Contact us at 800-955-6288, option 3, option 1; or email at instrumentservices@thermofisher.com
<ul style="list-style-type: none"> Assay Panel – C19-FluAB-RSV_QS5-9602_1.0.0 <ul style="list-style-type: none"> For QuantStudio 5 Real-Time PCR System with instrument firmware v1.3.3, 96-well 0.2 mL block (used with Design and Analysis Desktop software v1.5.1), must be installed by the user in the Pathogen Interpretive Software v1.1.0. 			
<ul style="list-style-type: none"> Assay Panel – C19-FluAB_RSV_QS7F-384_1.0.0 <ul style="list-style-type: none"> For QuantStudio 7 Flex Real-Time PCR System with instrument firmware v1.0.4, 384-well block (used with the QuantStudio Real-Time PCR Software v1.3), must be installed by the user in the Pathogen Interpretive Software v1.1.0. 			
Separate computer for the Pathogen Interpretive Software with at least 4 GB of RAM, at least 60 GB of available disk space, and one of the following operating systems:			
<ul style="list-style-type: none"> Microsoft Windows 10 (Professional), 64-bit Microsoft Windows 10 (Enterprise), 64-bit Microsoft Windows 7 (Professional), Service Pack 1, 64-bit 	Various	NA	Various
Real-time PCR instrument			
7500 Fast Real-Time PCR System (used with SDS Software v1.5.1 or 7500 Software v2.3)	Thermo Fisher Scientific	RT	4351106 (with laptop computer) 4351107 (with desktop computer)
QuantStudio 5 Real-TimePCR System with instrument firmware v1.3.3, 0.2 mL block (used with QuantStudio Design and Analysis Desktop Software v1.5.1)	Thermo Fisher Scientific	RT	A28569 (with laptop computer), A28574 (with desktop computer), A28139 (instrument only)
QuantStudio 7 Flex Real-Time PCR System with instrument firmware v1.0.4, 384-well block (used with QuantStudio Real-Time PCR Software v1.3)	Thermo Fisher Scientific	RT	4485695 (with laptop computer), 4485701 (with desktop computer)

* Software upgrade to the Pathogen Interpretive Software CE-IVD Edition v1.1.0 is recommended, but not required, to existing users of the TaqPath COVID-19, Flu A/B, RSV Combo Kit (A49867) with 7500 Fast Real-Time PCR Instruments. Software upgrade to the Pathogen Interpretive Software CE-IVD Edition v1.1.0 is required when using the QuantStudio 5 Real-Time PCR System, 0.2 mL block (96-well), or the QuantStudio 7 Flex PCR System, 384-well. If you have questions or problems finding the correct version, contact technical support or visit thermofisher.com/validatedfirmware.

** The 7500 Fast assay panel is automatically built in to the Pathogen Interpretive Software CE-IVD Edition. The QuantStudio 5 and QuantStudio 7 Flex panels will be provided separately in the software installation package and must be manually installed by the user.

Required materials not supplied (cont.)

Real-time PCR (cont.)

Ordering information

Product	Supplier	Storage	Service contact
Calibration plates for the kit			
ABY Dye Spectral Calibration Plate for Multiplex qPCR, Fast 96-well, 0.1 mL (7500 Fast system)	Thermo Fisher Scientific	-20°C	A24734
JUN Dye Spectral Calibration Plate for Multiplex qPCR, Fast 96-well, 0.1 mL (7500 Fast system)	Thermo Fisher Scientific	-20°C	A24735
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 (if recalibration is required)
ABY Dye Spectral Calibration Plate for Multiplex qPCR, 384-well (QuantStudio 7 system)	Thermo Fisher Scientific	-30°C to -5°C	A24736
JUN Dye Spectral Calibration Plate for Multiplex qPCR, 384-well (QuantStudio 7 system)	Thermo Fisher Scientific	-30°C to -5°C	A24733

Nucleic acid extraction

Ordering information

Product	Supplier	Storage	Cat. No.
Kits and reagents			
MagMAX Viral/Pathogen II Nucleic Acid Isolation Kit	Thermo Fisher Scientific	RT	Recommended: A48383
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
Automated processing tools			
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 96 Deep-Well 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.

Recommended materials not supplied

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 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	thermofisher.com/pipettetips
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 Film Compression Pad*	Thermo Fisher Scientific	RT	4312639

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.

* Required for use with QuantStudio 5 Real-Time PCR System, 96-well, 0.2 mL block only.

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) or E1-ClipTip Equalizer 384 12-Channel (2–125 µL)	4672060BT or 4672070BT
Multichannel pipette in 50–1,000 µL volume range	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) or E1-ClipTip Electronic 8-Channel Pipette (15–1,250 µL) (optional)	4670040BT 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 vortex with plate pad	Thermo Fisher Scientific	Various	Various
Biosafety cabinet	Thermo Fisher Scientific	HeraSafe 2030i Class 2 A2 Biological Safety Cabinets or 1300 Series Class II, Type A2 Biological Safety Cabinet Packages	51032334 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 or Sorvall Legend Micro 21R Microcentrifuge, refrigerated	75004061 or 75002447
–20°C freezer	Thermo Fisher Scientific	TSX Series High-Performance –20°C Manual Defrost Freezers, or similar	TSX2320FA
–80°C freezer	Thermo Fisher Scientific	TDE Series Ultra-Low Temperature Freezers, or similar	TDE60086FA
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/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 (to accommodate reagent tubes and RT-PCR plate)	Thermo Fisher Scientific Fisher Scientific	Benchtop coolers and PCR cooler	5116-1300 and 05-403-00

General laboratory equipment and consumables (cont.)

Ordering information

Product	Supplier	Recommended product	Cat. No.
1.5 mL RNase-free microcentrifuge tubes	Thermo Fisher Scientific or Fisher Scientific	Microcentrifuge tubes, nonstick, RNase-free, 1.5 mL (250 tubes) or Snap Cap Low Retention Microcentrifuge Tubes, 1.5 mL, graduated, sterile	Recommended: AM12450 or 21-402-903
RNase-free conical tubes, 15 mL	Thermo Fisher Scientific	RNase-Free Conical Tubes, 15 mL (racked) (500 tubes)	Recommended: AM12500
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 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

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