

Infectious diseases

TaqPath Monkeypox/Orthopox Virus DNA Kit

Multiplex real-time PCR test intended for the qualitative detection of DNA from monkeypox/orthopox virus and an RNase P internal control in a single reaction well

Applied Biosystems™ TaqPath™ Monkeypox/Orthopox Virus DNA Kit (Cat. No. A56978)

For use with:

- Applied Biosystems™ QuantStudio™ 5 Real-Time PCR System (96-well, 0.1 mL)
- Applied Biosystems™ QuantStudio™ 5 Dx Real-Time PCR System (96-well, 0.2 mL)*
- Applied Biosystems™ QuantStudio™ 7 Flex Real-Time PCR System (384-well)

* The QuantStudio 5 Dx system has two modes—IVD (For *In Vitro* Diagnostic Use) and test development (For Research Use Only. Not for use in diagnostic procedures.)

This document lists all instruments, consumables, and reagents required for instrument installation, training, and running the TaqPath Monkeypox/Orthopox Virus DNA assay. Please review this list carefully to ensure all necessary materials are available before installation and training dates. Missing materials can delay your setup process.

Note: To avoid contamination, it is highly recommended that you have separate sets of pipettes for samples, 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 lesion swab samples.

All materials are available through [thermofisher.com](https://www.thermofisher.com) unless noted as MLS, indicating materials are available from [fishersci.com](https://www.fishersci.com) or another major laboratory supplier (MLS).

Ordering information

Product	Storage	Cat. No.
TaqPath Monkeypox/Orthopox Virus DNA Kit (200 reactions). Contains: <ul style="list-style-type: none">• TaqPath Monkeypox/Orthopox Virus Multiplex Assay• TaqPath Monkeypox/Orthopox Virus DNA Positive Control	–30°C to –10°C	A56978
Required but not supplied		
TaqPath BactoPure Microbial Detection Master Mix (No ROX)	2–8°C	A52703, A52704, A52705
TE Buffer	RT	12090015
Real-time PCR instruments		
QuantStudio 5 Real-Time PCR System, 96-well, 0.1 mL block	RT	A28568 (with laptop computer) A28573 (with desktop computer) A28138 (instrument only)
QuantStudio 5 Dx Real-Time PCR System,* 96-well, 0.2 mL block	RT	A47326 (with laptop computer) A47327 (with desktop computer)
QuantStudio 7 Flex Real-Time PCR System, 384-well	RT	4485695 (with laptop computer) 4485701 (with desktop computer)
Equipment		
Laboratory freezer: –30°C to –10°C	NA	MLS
Biosafety level 2 (BSL-2) biological safety cabinet	NA	MLS
Centrifuge with a rotor that accommodates standard and deep-well microplates	NA	MLS
Microcentrifuge	NA	MLS
Laboratory mixer, vortexer, or equivalent	NA	MLS
Single and multichannel adjustable pipettors (1 µL to 1,000 µL)	NA	MLS
Cold block (96-well or 384-well) or ice	NA	MLS
Nucleic acid extraction system and materials		
KingFisher Flex Purification System, with 96 Deep-Well Head	NA	5400630
KingFisher Flex 96 Deep-Well Heating Block	NA	24075430
KingFisher 96 Deep-Well Plates	NA	95040450, A48305, 95040455
KingFisher 96-Well Tip Comb for Deep-Well Magnets	NA	A48438, 97002534
Plates compatible with KingFisher 96-well tip comb (required):		
KingFisher 96-Well Microplate	NA	97002540
Nunc MicroWell 96-Well Microplate, flat bottom	NA	167008
Nunc MicroWell 96-Well Microplate, barcoded	NA	269787
Abgene 96-Well Polypropylene Storage Microplate	NA	AB0796
Abgene 96-Well 1.2 mL Polypropylene Deep-Well Storage Plate	NA	AB1127
KingFisher 96 Deep-Well Plate	NA	95040450, A48305, 95040455

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RT: room temperature. NA: not applicable.

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Product	Storage	Cat. No.
Kits and reagents		
MagMAX Viral/Pathogen II Nucleic Acid Isolation Kit	RT	A48383
Fisher BioReagents Ethanol, Absolute, Molecular Biology Grade, or equivalent**	NA	BP2818100, BP2818500, BP28184 or MLS equivalents
Nuclease-free water (not DEPC-treated)	RT	MLS
Compatible plates for the QuantStudio 5 Real-Time PCR System (96-well, 0.1 mL block)		
MicroAmp Fast Optical 96-Well Reaction Plate, 0.1 mL, with barcode	NA	4346906, 4366932
MicroAmp Fast Optical 96-Well Reaction Plate, 0.1 mL, without barcode	NA	4346907
Compatible plates for the QuantStudio 5 Dx Real-Time PCR System (96-well, 0.2 mL block)		
MicroAmp Optical 96-Well Reaction Plate, 0.2 mL, with barcode	NA	4306737, 4326659
MicroAmp Optical 96-Well Reaction Plate, 0.2 mL, without barcode	NA	N8010560, 4316813
MicroAmp Optical 96-Well GPLE Reaction Plate, 0.2 mL, with barcode	NA	4481192
MicroAmp Optical 96-Well GPLE Reaction Plate, 0.2 mL, without barcode	NA	4481191
MicroAmp Optical Film Compression Pad	NA	4312639
Compatible plates for the QuantStudio 7 Flex Real-Time PCR System (384-well block)		
MicroAmp Optical 384-Well Reaction Plate (with barcode)	NA	4309849, 4326270, 4343814
MicroAmp Optical 384-Well Reaction Plate (without barcode)	NA	4343370
JUN Dye Spectral Calibration Plate for Multiplex qPCR, 384-Well	–30°C to –5°C	A24733

* GPLE = general purpose laboratory equipment

Ordering information

Product	Storage	Cat. No.
Tubes and other consumables		
Sterile Aerosol Barrier Pipette Tips, filtered	NA	thermofisher.com/pipettetips
DNase- and RNase-Free Microcentrifuge Tubes, nonstick, 1.5 mL and 2.0 mL	NA	AM12450, AM12475, or equivalent
DNase- and RNase-Free Tubes, for mixing reagents (capable of mixing 5 mL)	NA	thermofisher.com/order/catalog/product/341661
MicroAmp Clear Adhesive Film	NA	4306311
MicroAmp Optical Adhesive Film	NA	4311971, 4360954
MicroAmp Adhesive Film Applicator	NA	4333183

 Find out more at thermofisher.com/monkeypox

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