

# Monkeypox Virus Nucleic Acid Detection Kit (Fluorescence PCR Method)

**Innovative single-tube PCR, drive your lab efficiency**

Monkeypox is a viral zoonosis with symptoms very similar to those seen in the past in smallpox patients. It is caused by the monkeypox virus which belongs to the orthopoxvirus genus of the Poxviridae family. Monkeypox presents with fever, an extensive characteristic rash and usually swollen lymph nodes. The incubation period of monkeypox is usually from 6 to 13 days but can range from 5 to 21 days. WHO recommends that detection of viral DNA by polymerase chain reaction (PCR) is the preferred laboratory test for monkeypox.

**Death Rate 3.6%**  
**The West African clade**  
The West African clade is currently spreading in Europe

**Death Rate 10.6%**  
**The Congo Basin (Central African) clade**

### Transmission Route



### Signs or Symptoms



## FEATURES

**Innovative 3-in-1 tube PCR**  
Innovative single-tube PCR, with reaction solution, primers and PCR enzymes in one tube, minimize time of sample adding

**Upgraded single-tube PCR**

**Various Specimen**  
Oropharyngeal swab, vesicular or pustular lesion fluid, diseased tissue

**Diverse sample types**

**High Sensitivity**  
Reliable detection of Monkeypox virus, the limit of detection can be up to 200 copies/mL

**More Reliable**  
Based on Polymerase Chain Reaction (PCR) method, the gold standard for diagnosing monkeypox infection recommended by WHO

**More applicable**  
Widely applicable in instruments with FAM, CY5 fluorescence channels

## DATA INTERPRETATION

Figure 1: Gradient concentration Monkeypox virus amplification curve

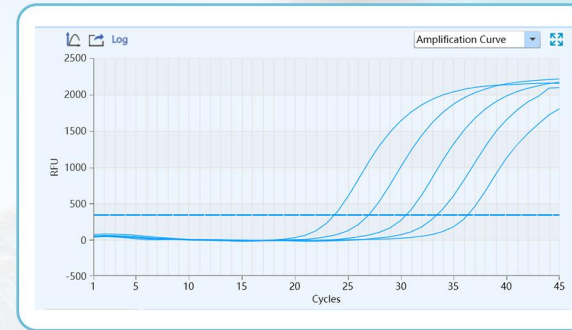
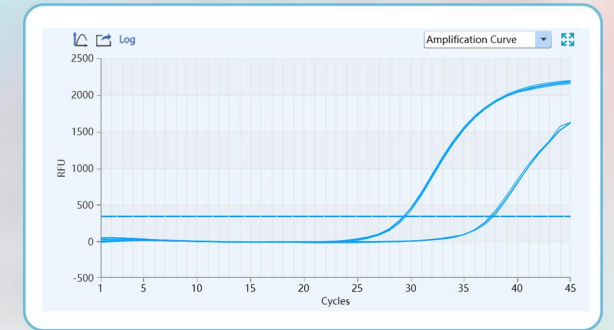


Figure 2: High concentration and low concentration Monkeypox virus repetitive amplification curve



**Monkeypox virus positive standard: If the Ct values of FAM channel are ≤43, the result can be considered Monkeypox virus nucleic acid positive.**

## ORDERING INFORMATION

<b>Product Name</b>	Monkeypox Virus Nucleic Acid Detection Kit (Fluorescence PCR Method)
<b>Cat.No</b>	P771H
<b>Specification</b>	50T/Kit
<b>Type of Analysis</b>	Qualitative
<b>Specimen</b>	Oropharyngeal swab, vesicular or pustular lesion fluid, diseased tissue
<b>Sensitivity</b>	200 copies/mL
<b>Precision</b>	<5%
<b>Storage &amp; Validity</b>	-25°C~-15°C for 12 months
<b>Applicable Equipment</b>	Instruments with FAM,CY5 fluorescence channels such as Applied Biosystems™ 7500 Real-Time PCR Systems and Tianlong Gentier Real-time PCR systems

## ASSAY WORKFLOW



Version 3.0

All rights reserved by Tianlong. May 20, 2023



**Tianlong Science and Technology**

Mail: inquiry@medtl.com  
Phone: 86 029 82682132  
Website: www.medtl.net  
Address: No. 4266 Shanglin Road, Xi'an, China