

Monkeypox Virus Real Time qPCR Kit (UDG plus)

Product Information

Product Name	Cat#	Size
	13863ES25	25 T
Monkeypox Virus Real Time qPCR Kit (UDG plus)	13863ES60	100 T
	13863ES80	1,000 T

Product Description

Monkeypox Virus Real Time qPCR Kit (UDG plus) is a PCR kit for the detection of monkeypox virus. Contains monkeypox virus primer probes, using the company's new-generation antibody method hot-start Taq enzyme 2× Mix master mix reagent and positive control, including Mg²⁺ and dNTP, etc., and adding factors and enhancements that effectively inhibit non-specific PCR amplification. The factor of the amplification efficiency of the multiplex qPCR reaction can improve the amplification efficiency of the reaction and promote the efficient amplification of low-concentration templates. This product contains UDG enzymes, which effectively prevent the risk of aerosol contamination.

Product Components

Component	13863ES25(25 T)	13863ES60(100 T)	13863ES80(1,000T)
13863-A 2×TaqMan qPCR Mix	313 μL	1.25 mL	12.5 mL
13863-B Prime&Probe Mix	25 μL	100 μL	1 mL
13863-C MPV Negative Control	125 μL	500 μL	5 mL
13863-D MPV Positive Control	125 μL	500 μL	5 mL

【Notes】

- 2×TaqMan qPCR Mix mainly contain heat-resistant UNICON® HotStart Taq DNA Polymerase, dNTPs, Mg²⁺, etc.
- Prime&Probe Mix mainly contains target gene primer probes.
- MPV Positive Control is enzymatic-free water.
- MPV Positive Control is a plasmid containing the target gene and endogenous internal standard. The target gene is the FAM channel, and the concentration is 1×10⁴ copies/μL; the internal standard is the VIC channel.

Shipping and Storage

The product is shipped with ice pag and can be stored at -20°C for one year. This product avoids repeated freeze-thaw. It is recommended to save.

Reaction System(Take 25 μL for example)

Component	Volume	Final Concentration
2×TaqMan qPCR mix	12.5	1×
Primer&Probe mix	1	-
模板	5	-
ddH ₂ O	up to 25	-

Applicable Models

ABI Series: ABI 5700, 7000, 7300, 7700, 7900HT Fast, StepOne, StepOne Plus; 7500, 7500 Fast, ViiA7, QuantStudio 3 and 5, QuantStudio 6, 7, 12k Flex;

Bio-Rad Series: Bio-Rad CFX96, CFX384, iCycler iQ, iQ5, MyiQ, MiniOpticon, Opticon, Opticon 2, Chromo4;

Roche Series: Roche Applied Science LightCycler 480, LightCycler 2.0; Lightcycler 96;

Others: Stratagene MX3000P, MX3005P, MX4000P;

Eppendorf Mastercycler ep realplex, realplex 2 s;

Qiagen Corbett Rotor-Gene Q, Rotor-Gene 3000, Rotor-Gene 6000;

Thermo Scientific PikoReal Cycler; **Cepheid** SmartCycler; **Illumina** Eco qPCR.

Standard Amplification Procedure

Stage	Temperature	Time	Cycles
Pre-digestion	37°C	5 min	1
Pre-denaturation	95°C	5 min	1
Amplification Reaction	95°C	15 sec	45
	60°C	30 sec	

【Notes】 :The annealing/extension temperature can be appropriately adjusted according to the experimental requirements.

Interpretation of Results

	FAM	Result
1	Ct>38 or UNDET	Negative
2	Ct≤35	Positive
3	35<Ct≤38	Need to re-test, the Ct value is still in this range and the curve is in the standard "S" shape, it is judged as positive, otherwise it is judged as negative

Cautions

- 1.Please use the RNase free consumables during the experiment;
- 2.For your safety and health, please wear lab coats and disposable gloves for operation.