

# Foot and Mouth Disease Virus (FMDV) Nucleic Acid Detection Kit (Fluorescence PCR Method)



Foot and mouth disease (FMD) is a severe, highly contagious viral disease that affects cattle, swine, sheep, goats, and other cloven-hoofed ruminants. FMD is characterized by fever and blister-like sores on the tongue and lips, in the mouth, on the teats, and between the hooves.

The organism which causes FMD is an aphthovirus of the family Picornaviridae. There are seven strains (A, O, C, SAT1, SAT2, SAT3, and Asia1) that are endemic in different countries worldwide. Infection with any one serotype does not confer immunity against other serotypes.

Tianlong's Foot and Mouth Disease Virus(FMDV) RNA Detection Kit is used for the qualitative detection of FMDV RNA by the Real-time RT-PCR method, which can help in the fast diagnosis of FMD.

## FEATURES



### Various Serotypes Detection

Concurrently detects four FMDV serotypes A, O, C and Asia1, assisting in the fast diagnosis of FMD



### Various Specimen

Serum, vesicular, pustular lesion fluid, diseased tissue samples and throat swab



### Internal Control

The use of internal control system in the kit can effectively prevent false-negative results



### User-friendly

Widely applicable in instruments with FAM, VIC channels



### High Precision

The precision values of intra and inter Ct values were all <5%

## DATA INTERPRETATION

Figure 1: Gradient concentration FMDV amplification curve

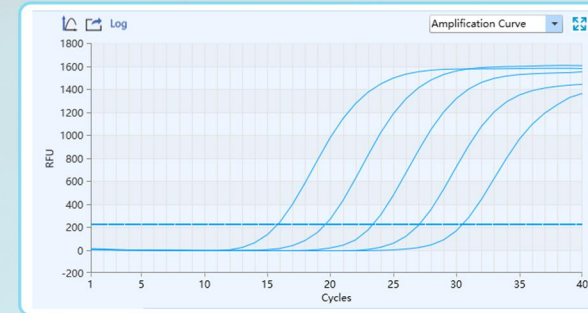
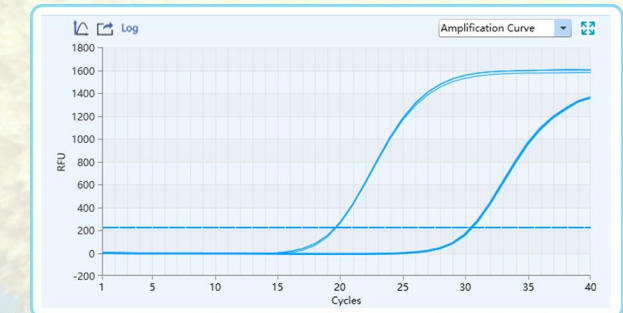


Figure 2: High concentration and low concentration FMDV repetitive amplification curve



## ORDERING INFORMATION

<b>Product Name</b>	Foot and Mouth Disease Virus (FMDV) Nucleic Acid Detection Kit (Fluorescence PCR Method)
<b>Cat.No</b>	P725H
<b>Specification</b>	50T/Kit
<b>Species</b>	FMDV
<b>Target Pathogen</b>	Artiodactyla (Cattle, Swine etc.)
<b>Specimen</b>	Serum, vesicular, pustular lesion fluid, diseased tissue samples and throat swab
<b>Sensitivity</b>	500 copies/mL
<b>Precision</b>	<5%
<b>Storage &amp; Validity</b>	-25~-15°C for 12 months
<b>Applicable Equipment</b>	Instruments with FAM, VIC channels, such as Applied Biosystems™ 7500 Real-Time PCR Systems, TianLong Gentier Real-time PCR systems, etc

## ASSAY WORKFLOW



Version 5.0

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