

Foot and Mouth Disease Virus (FMDV) RNA Detection Kit (Fluorescent 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 or pustular lesion fluid and diseased tissue samples



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, Cy5 channels



High Precision

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

DATA INTERPRETATION

Figure 1: Gradient concentration FMDV amplification curve

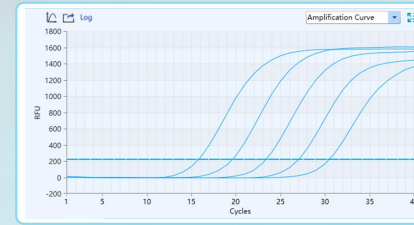
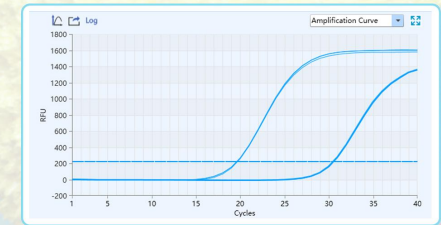


Figure 2: High concentration and low concentration FMDV repetitive amplification curve



ORDERING INFORMATION

Product Name	Foot and Mouth Disease Virus (FMDV) RNA Detection Kit (Fluorescent PCR Method)	
Cat.No	P725H	P325H
Specification	50T/Kit	25T/Kit
Species	FMDV	
Target Pathogen	Artiodactyla (Cattle, Swine etc.)	
Specimen	Serum, vesicular or pustular lesion fluid and diseased tissue samples	
Sensitivity	500 copies/mL	
Precision	<5%	
Storage & Validity	-25~-15°C for 12 months	
Applicable Equipment	Instruments with FAM, Cy5 channels, such as Applied Biosystems™ 7500 Real-Time PCR Systems, TianLong Gentier Real-time PCR systems, etc	

ASSAY WORKFLOW

