



TIANLONG

Proven Solutions for
Animal Health and Animal
Species Identification

ANIMAL HEALTH



»» Swine Tests

Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) RNA Detection Kit

(Fluorescent PCR Method)

Porcine reproductive and respiratory syndrome, (PRRS), also named blue ear disease, is a wide-spread disease affecting domestic pigs. As the name suggests there are two syndromes associated with PRRS, reproductive failure in sows, and respiratory disease in young pigs. There is often high mortality, though infected animals can also show no disease at all. And in spite of the name, the blue ears, due to restricted blood supply, are only a transient sign of the disease.

Porcine reproductive and respiratory syndrome (PRRS) is an economically disastrous infectious disease for the global swine industry.

It can be classified into two genotypes, namely the European type (PRRSV-1) and the North American type (PRRSV-2). It is now found in most areas of the world where pigs are raised.

SIGNS OR SYMPTOMS

Breeding pigs:



- ◆ Decrease in conception
- ◆ Increase in premature birthing, late term abortions
- ◆ High preweaning mortality
- ◆ Anorexia
- ◆ Fever
- ◆ Respiratory distress or vomiting
- ◆ Blue colouring due to decrease blood flow (cyanosis) of the ears, abdomen and vulva

Young pigs:



- ◆ Fever
- ◆ Depression
- ◆ Lethargy
- ◆ Pneumonia
- ◆ Difficulty breathing
- ◆ Stunted growth due to systemic disease
- ◆ Increased post weaning mortality

FEATURES



Wide Coverage

Reliable detection of Porcine Reproductive and Respiratory Syndrome Virus (PRRSV), covering the European type (PRRSV-1) and the North American type (PRRSV-2)



Various Specimen

Compatible with multiple sample types, including cell free body fluid sample, whole blood, serum or tissue samples



Real-time RT-PCR based PRRSV detection

Provides a rapid test solution that detects PRRSV with a high degree of sensitivity and specificity



High Precision

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



Providing Integrated Solution

Highly efficient and reliable, Tianlong integrated PCR lab solution from devices to reagents can ensure great compatibility and minimized errors.

DATA INTERPRETATION

Figure 1: Gradient concentration PRRSV amplification curve

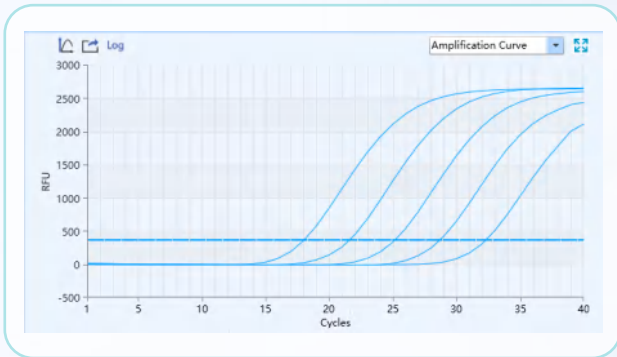
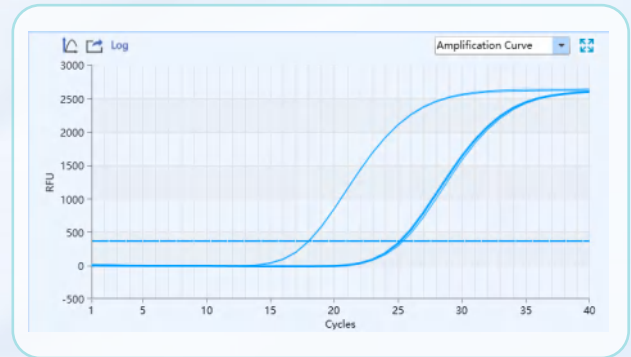


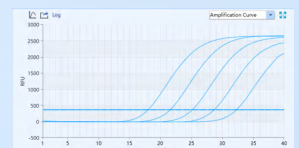
Figure 2: High concentration and low concentration PRRSV repetitive amplification curve



ORDERING INFORMATION

Product Name	Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) RNA Detection Kit (Fluorescent PCR Method)	
Cat.No	P270H	P670H
Specification	25T/Kit	50T/Kit
Specimen	Cell free body fluid sample ,whole blood ,serum or tissue samples	
Sensitivity	500 copies/mL	
Storage & Validity	-25~-15℃ for 12 months	
Applicable Equipment	Instruments with FAM and CY5 channels, Applied Biosystems™ 7500 Real-Time PCR Systems, TianLong Gentier Real-time PCR systems	

ASSAY WORKFLOW



African Swine Fever Virus (ASFV) Nucleic Acid Detection Kit

(Fluorescent PCR Method)

ASF is caused by the African swine fever virus (ASFV). ASFV transmission can occur by direct contact between healthy and sick animals and indirect contact through the infected feed.

Peracute, acute, subacute, and chronic forms of ASF occur, and mortality rates vary from 0 to 100%, depending on the virulence of the virus that pigs are infected with. It can be devastating to the swine industry and those related to it when there is an outbreak of ASFV in any region or country.

The Tianlong African Swine Fever Virus Detection Kit is for the detection of African Swine Fever Virus (ASFV) DNA in cell-free body fluid samples, whole blood, serum, or tissue samples of pigs using TaqMan primer and probes. Recommend to use on Tianlong Portable Real-Time PCR System Gentier Mini, which is compact and portable with high efficiency. The kit can help early diagnosis and detect ASFV in pigs 2 days after infection and the test result can report in 1 hour.



FEATURES



Wide Coverage

Concurrently detects ASFV genotype I, II



Various Specimen

Cell free body fluid sample, whole blood, serum or 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 and VIC channels



High Precision

The coefficient of variation of the Ct values (CV%) is less than 5%

DATA INTERPRETATION

Figure 1: Gradient concentration ASFV amplification curve

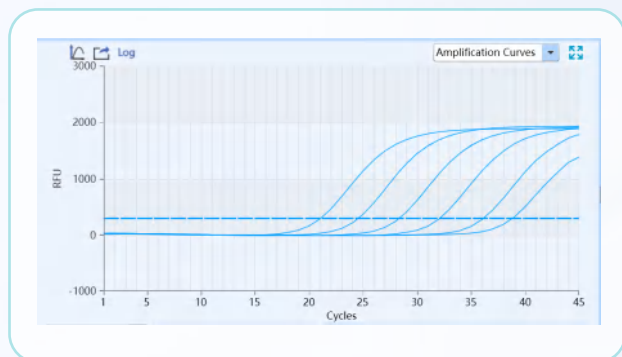
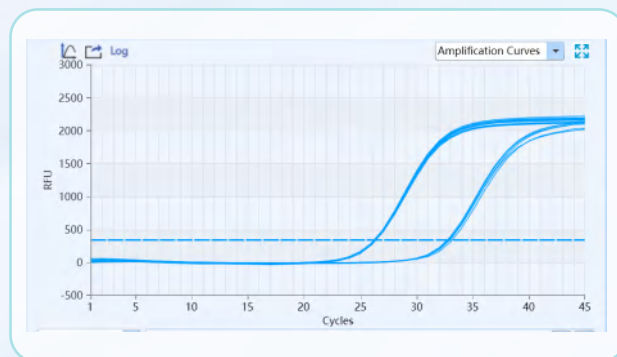


Figure 2: High concentration and low concentration ASFV repetitive amplification curve



APPLICABLE INSTRUMENT

Product Name	Sample Throughput	Fluorescence Channels	Certification
Tianlong Portable Real-Time PCR System -Gentier Mini	16	2	CE/FDA



- ✓ Portable
- ✓ Fast
- ✓ Always Online

Gentier Mini is designed for mobile, small laboratories or on-site testing.

ORDERING INFORMATION

Product Name	African Swine Fever Virus (ASFV) Nucleic Acid Detection Kit (Fluorescent PCR Method)
Cat.No	P660H
Specification	50T/Kit
Specimen	Cell free body fluid sample ,whole blood ,serum or tissue samples
Sensitivity	500 copies/mL
Storage & Validity	-25~-15 °C for 12 months
Applicable Equipment	Instruments with FAM and VIC channels, such as ABI series, Bio-Rad series, Tianlong PCR instruments

Classical Swine Fever Virus (CSFV) RNA Detection Kit

(Fluorescent PCR Method)

Classical swine fever virus (CSFV) is an enveloped single-stranded, positive-sense RNA virus that belongs to the Pestivirus genus of the Flaviviridae family. CSFV causes classical swine fever (CSF), which is characterized by high fever, leukopenia, extensive haemorrhage, convulsion, and constipation or diarrhoea and presents high morbidity and mortality.

It is an infectious disease that poses a serious threat to the pig industry. Therefore, rapid and accurate diagnosis of CSFV is very important. Tianlong Classical Swine Fever Virus (CSFV) RNA Detection Kit can assist in the diagnosis of CSF and help public health-care management.



FEATURES



Confidence in results

Only 40 minutes for detection of Classical Swine Fever Virus (CSFV), covering CSFV genotype I, II, III



Various Specimen

Compatible with multiple sample types, including cell free body fluid sample, whole blood, serum or tissue sample



Real-time RT-PCR based CSFV detection

Provides a rapid test solution that detects CSFV with a high degree of sensitivity and specificity



User-friendly

Widely applicable in instruments with FAM and Cy5 channels



Providing Integrated Solution

Highly efficient and reliable, Tianlong integrated PCR lab solution from devices to reagents can ensure great compatibility and minimized errors

DATA INTERPRETATION

Figure 1: Gradient concentration CSFV amplification curve

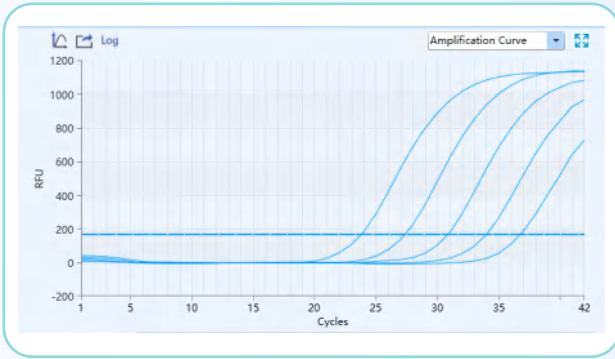
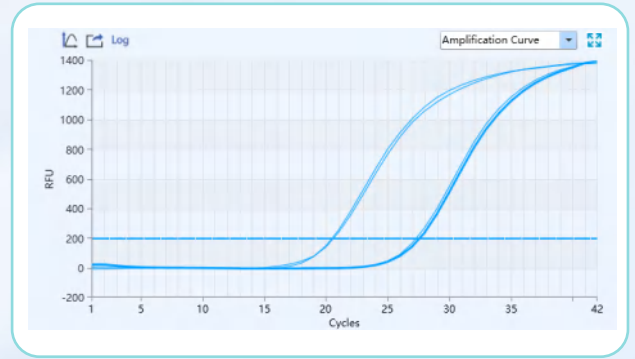


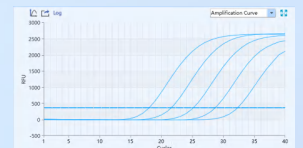
Figure 2: High concentration and low concentration CSFV repetitive amplification curve



ORDERING INFORMATION

Product Name	Classical Swine Fever Virus (CSFV) RNA Detection Kit (Fluorescent PCR Method)	
Cat.No	P274H	P674H
Specification	25T/Kit	50T/Kit
Specimen	Cell free body fluid sample, whole blood, serum or tissue sample	
Sensitivity	500 copies/mL	
Storage & Validity	-25~-15°C for 12 months	
Precision	<5%	
Applicable Equipment	Instruments with FAM and Cy5 channels, Applied Biosystems™ 7500 Real-Time PCR Systems, Tianlong Gentier Real-time PCR systems	

ASSAY WORKFLOW



ANIMAL HEALTH



»» Artiodactyla Tests

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 common 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

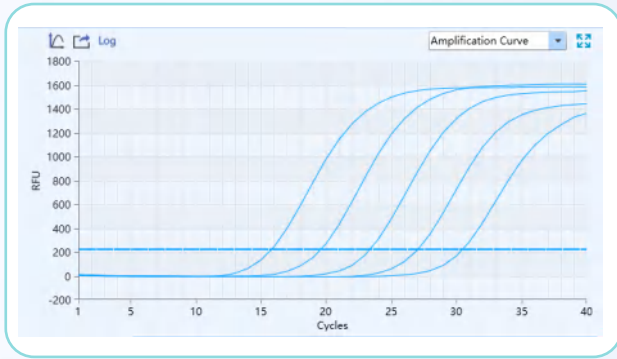
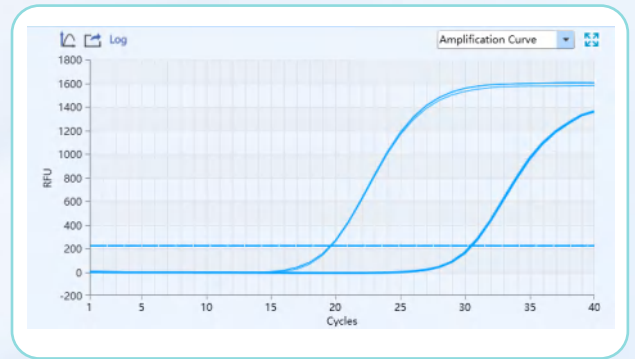


Figure 2: High concentration and low concentration FMD repetitive amplification curve

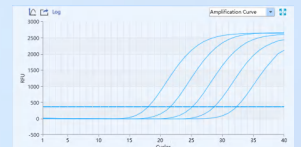


ORDERING INFORMATION

Product Name	Foot and Mouth Disease Virus (FMDV) RNA Detection Kit (Fluorescent PCR Method)	
Cat.No	P725H	P325H
Specification	50T/Kit	25T/Kit
Species	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

- 1 Sample Collection
- 2 Nucleic Acid Extraction
- 3 PCR Detection
- 4 Analysis and Report



ANIMAL HEALTH



»» Poultry Tests

Newcastle Disease Virus Nucleic Acid Detection Kit

(Fluorescent PCR Method)

Newcastle disease is a highly contagious and sometimes fatal illness affecting poultry. It is caused by virulent strains of avian paramyxovirus type 1.

The disease often appears in three forms: lentogenic, mesogenic, and velogenic. The severity of the disease is a function of the virulence of the infecting viral strain. When the virus is introduced into a susceptible flock, virtually all the birds will be infected within two to six days. ND can present a clinical picture similar to avian influenza, so laboratory testing is important to confirm the diagnosis.

SIGNS OR SYMPTOMS



Respiratory signs

gasping, coughing, sneezing and rales



Nervous signs

tremors, paralyzed wings and legs, twisted necks, circling, spasms, and paralysis



Digestive signs

diarrhoea



Reproductive signs

drop in egg production, watery albumen, egg abnormal in color, shape, or surface

FEATURES



Confidence in results

Screening flocks for presence or absence of Newcastle Disease Virus (NDV), detects all NDV strains



Various Specimen

Compatible with multiple sample types, including serum, pharyngeal/anal swab, tissue sample



Real-time RT-PCR based NDV detection

Provides a rapid test solution that detects NDV with a high degree of sensitivity and specificity



User-friendly

Widely applicable in instruments with FAM and Cy5 channels



Providing Integrated Solution

Highly efficient and reliable, Tianlong integrated PCR lab solution from devices to reagents can ensure great compatibility and minimized errors

DATA INTERPRETATION

Figure 1: Gradient concentration NDV amplification curve

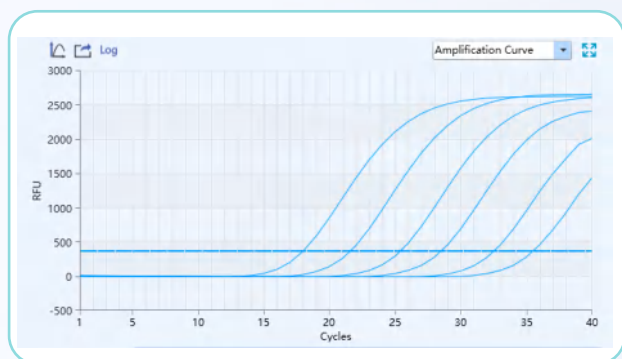
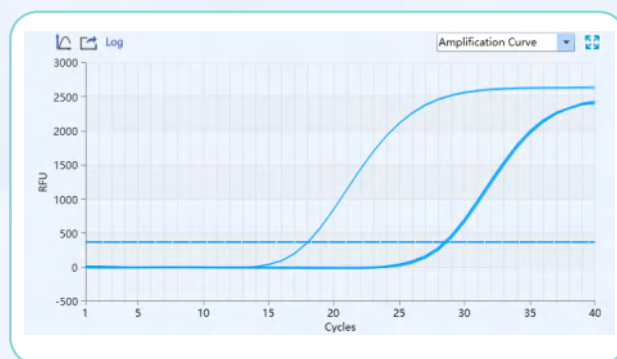


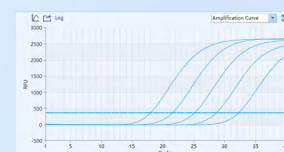
Figure 2: High concentration and low concentration NDV repetitive amplification curve



ORDERING INFORMATION

Product Name	Newcastle Disease Virus Nucleic Acid Detection Kit (Fluorescent PCR Method)
Cat.No	P695H
Specification	50T/Kit
Specimen	Serum, pharyngeal/anal swab, tissue sample
Sensitivity	500 copies/mL
Precision	<5%
Storage & Validity	-25~-15 C for 12 months
Applicable Equipment	Instruments with FAM and Cy5 channels, such as Tianlong Gentier Real-time PCR systems, Applied Biosystems™ 7500 Real-time PCR Systems

ASSAY WORKFLOW
















Animal Species Identification Kits

Animal species identification in food and feed products has increasingly acquired importance due to public health, economic and legal concerns. Even religious and ethical criteria can be at risk in the case of food adulteration.

Unknowingly ingesting an allergenic animal product can be a serious health danger. Additionally, the unknown presence of any animal ingredients in vegetarian food may cause individuals to unknowingly violate their belief system. And the substitution of an inferior animal species in a food product often referred to as “food fraud,” has both economic and legal ramifications.

Tianlong Animal Species DNA Detection Kits offer a broad portfolio of real-time PCR-based animal species detection solutions. The range includes assay kits for pig, cow, equine, sheep, donkey, chicken, duck, goose, dog, cat, mouse, deer, and fox DNA in food samples and animal tissues. The assays provide very high sensitivity with a limit of detection (LOD) of 500 copies/mL.

Animal Species							
	Sheep	Equine	Cow	Donkey	Pig	Deer	Fox
Detected	✓	✓	✓	✓	✓	✓	✓
Animal Species							
	Dog	Cat	Goose	Duck	Chicken	Mouse	
Detected	✓	✓	✓	✓	✓	✓	

FEATURES



Wide Coverage

Qualitative detection of animal DNA by Real-time PCR method, providing broad portfolio of animal species detection solutions



Various Specimen

Food containing animal components, animal tissue or blood, animal feed, meat products, etc.



Real-time PCR based animal DNA detection

Provides a rapid test solution that detects animal DNA with a high degree of sensitivity and specificity



Good Compatibility

Widely applicable in instruments with FAM and CY5 channels



Providing Integrated Solution

Highly efficient and reliable, Tianlong integrated PCR lab solution from devices to reagents can ensure great compatibility and minimized errors

ORDERING INFORMATION

Product Name	Specification	Cat.No
Porcine Ingredients Nucleic Acid Detection Kit (Fluorescence PCR Method)	50T/Kit	P591H
Bovine Ingredients Nucleic Acid Detection Kit (Fluorescence PCR Method)	50T/Kit	P592H
Ovine Ingredients Nucleic Acid Detection Kit (Fluorescence PCR Method)	50T/Kit	P593H
Horse Ingredients Nucleic Acid Detection Kit (Fluorescence PCR Method)	50T/Kit	P594H
Donkey Ingredients Nucleic Acid Detection Kit (Fluorescence PCR Method)	50T/Kit	P595H
Chicken Ingredients Nucleic Acid Detection Kit (Fluorescence PCR Method)	50T/Kit	P596H
Duck Ingredients Nucleic Acid Detection Kit (Fluorescence PCR Method)	50T/Kit	P597H
Goose Ingredients Nucleic Acid Detection Kit (Fluorescence PCR Method)	50T/Kit	P598H
Canine Ingredients Nucleic Acid Detection Kit (Fluorescence PCR Method)	50T/Kit	P599H
Feline Ingredients Nucleic Acid Detection Kit (Fluorescence PCR Method)	50T/Kit	P600H
Murine Ingredients Nucleic Acid Detection Kit (Fluorescence PCR Method)	50T/Kit	P601H
Cervine Ingredients Nucleic Acid Detection Kit (Fluorescence PCR Method)	50T/Kit	P602H
Vulpine Ingredients Nucleic Acid Detection Kit (Fluorescence PCR Method)	50T/Kit	P603H

ASSAY WORKFLOW

1 Sample Collection



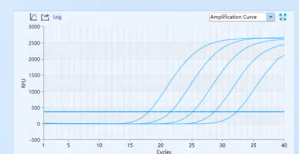
2 Nucleic Acid Extraction



3 PCR Detection



4 Analysis and Report



*Bring **T**echnology to **L**ife!*



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