FIASHTEST

[Product Name]
Feline Screening Combo X Nucleic Acid Test Kit (Lyophilized)
FCV, FHV, Mycoplasma, Chlamydia, B. bronchiseptica, FCoV, T.F
FPV, Astrovirus

[Intended Use]
This kit uses fluorescence PCR methods to detect FCoV, T.F., Glardia, FPV, Astrovirus in cat feces, anal swab samples and FCV, FHV, Mycoplasma, Chlamydia, Bb in eye, nose, and throat swab samples.
This product requires operation with a real time quantitative PCR instrument and can achieve rapid POCT detection.

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This product required and can achieve rapid POC1 or occur.

[Testing Principle]
The test kit uses nucleic acid extraction reagents to extract the nucleic acid (DNA/RNA) from the sample.
Under the action of a high-efficiency reverse transcriptase, cDNA complementary to the RNA template is synthesized in a one-step reaction using RNA as the template.
Under the action of Tag enzyme, the copy number of the specific target fragment is amplified through cycles of high-temperature denaturation, annealing at a moderate temperature, and extension using DNA as the template.
The fluorescence-labeled specific probe hybridizes with the amplified target fragment, and the 5"-3" exonuclease activity of Tag polymerase separates the reporting group and quencher group of the fluorescence probe, emitting a specific fluorescence signal.
The specific fluorescence signal.
The specific fluorescence signal is detected using a fluorescence PCR instrument, and the result is determined based on the Ct value of the sample and the formation of the amplification curve.

[Contents]			
Item	Quantity	Storage	
PCR master mix	4 pcs	-20°C (Away from light)	
Instructions for use	1 pcs		
Sample buffer	4 pcs	Room Temperature	
Swab	8 pcs	Room remperature	
Biohazard bag	4 pcs		

[Storage conditions and shelf life 1. Shelf life: 24 months. 2. Production date and expiration d

[Compatible Instruments]
This test kit is compatible with FLASHTEST fluorescence PCR instrument.

Isample Handling]
This project is a double swab project, which requires simultaneous collection of eye and nasopharynx swabs and fecal/anal swabs;
I. Eye, nose, and throat swab: Use a swab to moderately wipe the oral, nasal secretions, or conjunctival secretions.

2. Fresh feces swab: Use a swab to moderately wipe the oral, nasal secretions, or conjunctival secretions.

2. Fresh feces swab: Use a swab to collect an appropriate amount. Anal swab: Wet the swab with dilluent first and then collect the sample.

3. After the swab sample is collected, the two swab heads should be quickly broken and placed in the same storage solution, and then fully shaken to fully dissolve the pathogen on the swab head into the storage solution.

4. add 200 μL of mixed buffer to the nucleic acid extraction cartridge for extraction.

[Specimen storage]
Samples used for nucleic acid extraction and detection should be tested as soon as possible.
Samples to be tested within 24 hours can be stored at 4°C.
Samples that can not be tested within 24 hours should be stored at -20°C for the samples that can not be tested within 24 hours should be stored at -20°C for the samples that can not be tested within 24 hours should be stored at -20°C for the samples that can not be tested within 24 hours should be stored at -20°C for the samples that can not be tested within 24 hours should be stored at -20°C for the samples are samples at -20°C for the samples at -20°C for the samples are samples at -20°C for the samples at -20°C for the samples are samples at -20°C for the samples at -20°C

[Instructions for Use]
1. Add Elution
1.1 Add 20 JL of elution from magnetic bead extraction, to each PCR tube. Close the lid lightly.
1.2 Shake all the liquid to the bottom of the PCR tube. Use the vortex mixe to mix the PCR tube thoroughly, for 5 seconds. After mixing, make sure all liquid is at the bottom of the PCR tube, by shaking the tube again. (optional: use a small centrifuge for 3 seconds to shift all liquids to the bottom.)

2.1 Set the parameters as follows:				
Step	Temperature	Time	Cycle	
1	55°C	3min	1	
2	94°C	30s	1	
3	94°C	5s 20s	×40	

2.2 The reaction volume is 20µL. Fluorescence channels:				
Channel	FAM	VIC	CY5	ROX
Target (Tube 1)	FCV	Internal reference		FHV
Target (Tube 2)	Mycoplasma		B. bronchiseptica	Chlamydia
Target (Tube 3)	FCoV		Astrovirus	FPV
Target	T.F.			Giardia

3. Result Interpretation 3.1 Reference Range:			
Parameter	Reference Range	Result Interpretation	
Internal Control	Ct ≤ 37 and there is a clear exponential amplification curve	Valid	
Control	Ct > 37 or No Ct	Invalid	
Pathogen	Ct ≤ 37 and there is a clear exponential amplification curve	Positive	
	Ct > 27 N - Ct	Magativa	

*FPV: Due to the high sensitivity of laboratory standard reagents, based on clinical data, the reference range is set as Negative [Ct > 30 or No Ct], Positive [Ct > 30].

3.2 Test Result Interpretation			
Pathogen Result	Internal Control Result	Test Result Interpretation	
Positive	Valid	Pathogen Positive	
Negative	Valid	Pathogen Negative	
Any Result	Invalid	Test invalid, please retest	

Test Limitations)

1. The test results of this kit should be comprehensively analyzed in conjunction with other relevant physical examination results and shot be used as the sole basis for diagnosis.

2. Description of the sole basis for diagnosis of the sole of the sol

ther unconfirmed interferences or PCR inhibitors may lead to raise ative results. equence variations caused by mutations or other factors in the targ e of the virus being tested may lead to false negative results.

- Product Performance]
 Positive and negative control consistency: The positive and negative notrols included in this test kit have been tested with the company's working ference materials, and the positive and negative compliance rates are both
- controls included in this test kin rade beeff tested with rife Company's wireference materials, and the positive and negative compilance rates at 100%.

 2. Sensitivity: limit of detection is 500 copies/mL.

 3. Specificity. This assay does not cross-react with non-target pathoger samples.

 4. Precision: The coefficient of variation (CV, %) of the Ct values for 10 consecutive tests of one strong positive sample and one weak positive sample is ≤5%.

- sample is 50%.

 [Notes]

 1. Before using a PCR kit, check the lyophilized PCR mix at the bottom of the tube is in good condition (white and clumped). Liquified lyophilized PCR mix can not be used. After opening, it should be used as soon as possible or stored away from light.

 2. This product is only for in vitro testing (for animals). All operations must strictly follow the instructions.

 3. Overloading samples may result in false negatives. Retest is recommended.

 4. Avoid bubbles in PCR tubes. Keep the tube cap firmly closed.

 5. Use disposable tips, gloves, and laboratory coats.

 6. After tests, disinfect the workbench with 10% hypochlorous acid, 75% ethanol, or UV light.

 7. All items in the kit should be treated as biowaste and handled in accordance with local laboratory regulations.