FLASHTEST

[Product Name]
Feline Neurological Screening Combo ∭ Nucl
B. henselae, TOXO, FIPV eic Acid Test Kit (Lyophili

[Intended Use]
This kit uses fluorescence PCR methods to detect B. henselae, Ti FIPV in Feline samples.
This product requires operation with a real time quantitative PCR instrument and can achieve rapid POCT detection.

Instrument and can achieve rapid POCT detection.

[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 reactiusing RNA as the template.
Under the action of Taq 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 Taq polymerase separates the reporting group and quencher group of the fluorescence probe, emitting a 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)	
Sample buffer	4 pcs	Room temperature	
Biohazard bag	4 pcs		

[Storage conditions and shelf life]
1. Shelf life: 24 months.
2. Production date and expiration date are on the

Compatible Instruments]
This test kit is compatible with FLASHTEST real-time quantitati fluorescence PCR instrument.

[Sample Handling]
This panel requires collection of ascites, pleural effusion and EDTA anticoagulated blood;
1. Ascites, pleural effusion: Collect cat pleural effusion and ascites using a syringe. Add 200 μL of ascites and pleural effusion sample into the buffer.
2. EDTA anticoagulated blood: collect blood in a tube containing EDTA anticoagulate. Add 100 μL of blood to the same sample buffer and mix thoroughly.
3. 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 up to 10 days.
Avoid repeated freezing and thawing of samples.

[Instructions for Use]

1. Add Elution

1. Add

2. PCR Amplification 2.1 Set the parameters as follo

Step	Temperature	Time	Cycle
1	55°C	3min	1
2	94°C	30s	1
3	94°C 58°C	5s 20s	×40

Channel	FAM	VIC	ROX	CY5
Target (Tube 1)	B. henselae	Internal reference		FIPV
Target (Tube 2)	тохо			

3. Result Interpretatio

3.1 Reference Range:			
Parameter	Reference Range	Result Interpretation	
Internal Control	Ct ≤ 37 and there is a clear exponential amplification curve	Valid	
	Ct > 37 or No Ct	Invalid	
Pathogen	Ct ≤ 37 and there is a clear exponential amplification curve	Positive	
	Ct > 37 or No Ct	Negative	

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

[Tost Limitations]

1. The test results of this kit should be comprehensively analyzed in conjunction with other relevant physical examination results and should not be used as the sole basis for diagnosis.

2. Improper sample collection, transportation, storage, handling, and inadequate laboratory conditions may lead to inaccurate results.

3. Other unconfirmed interferences or PCR inhibitors may lead to false negative results.

Other unconfirmed interferences or PCR inhibitors may lead to fa gative results. Sequence variations caused by mutations or other factors in the tene of the virus being tested may lead to false negative results.

[Product Performance]

I. Positive and negative control consistency: The positive and negative control is included in this test kit have been tested with the company's working reference materials, and the positive and negative compliance rates are both 100%.

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

S. Specificity: This assay does not cross-react with non-target pathoge 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%.

- [Notes]
 I. Before using a PCR kit, check the lyophilized PCR mix at the bottom of the tube is in good condition (white and clumped). Liquiffied lyophilized PCR mix an 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 mus 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.