FIASHTEST

[Product Name]
Canine Screening-Kombination X Nucleic Acid Test Kit(Lyophilized)
CHV, CAV-2, CPIV, Flu A, CDV, B. bronchiseptica, Mycoplasma, CCo'
Giardia, CPV

[Intended Use]
This kit uses fluorescence PCR methods to detect CHV, CAV-2, CPIV,
Flu A, CDV, B, bronchiseptica, Mycoplasma in eye, nose, and throat swasamples, detect CCOV, Glardia, CPV in fresh feces, anal swab samples.
This product requires operation with a real time quantitative PCR instrument and can achieve rapid POCT detection.

rse transcriptase, cDNA nthesized in a one-step reaction

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 reacting 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 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 temperature		
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 I fluorescence PCR instrument.

- [Sample Handling]
 This project is a double swab project, which requires simultaneous collection of eye and nasopharynx swabs and fecal/anal swabs;
 1. 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 collect an appropriate amount. An swab: Wet the swab with diluent 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 storag solution.

[Specimen storage]
Samples used for nucleic acid extraction and detection should be teste 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 for up to 10 days.
Avoid repeated freezing and thawing of samples.

[Instructions for Use]
1. Add Elution
1. Add Elution
1. Add Elution
2. Add Elution from magnetic bead extraction, to each PCR tube Close the lit lightly
1.2 Shake all the lightly
1.2 Shake all the lightly of the PCR tube. Use the vortex maker to mix the PCR tube the Vortex which is the PCR tube the PCR tube the vortex which is the PCR tube the PCR tube to the PCR tube, by shaking the tube again (optional: use a small centrifuge for 3 seconds to shift all liquids to the bottom.)

2. PCR Amplification 2.1 Set the parameters as for

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

	00 C 203					
2.2 The reaction volume is 20µL. Fluorescence channels:						
Channel	FAM	VIC		CY	5	ROX
Target (Tube 1)	CDV	Internal Co	ontrol	СРІ	V	CAV-2
Target (Tube 2)	Mycoplasma			Flu	Α	CHV
Target (Tube 3)	CCoV					CPV
Target		B. bronchis	eptica			Giardia

3. Result Interpretation 3.1 Reference Range:				
Parameter	Reference Range	Result Interpretation		
Internal Control	Ct ≤ 40 and there is a clear exponential amplification curve	Valid		
Control	Ct > 40 or No Ct	Invalid		
Pathogen	Ct ≤ 37 and there is a clear exponential amplification curve	Positive		
"	Ct > 37 or No Ct	Negative		

*CPV : 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 \leq 30].

3.2 Test Result Interpretation					
	Pathogen Result	Internal Control Result	Test Result Interpretation		
	Positive	Valid	Pathogen Positive		
ſ	Negative	Valid	Pathogen Negative		
ſ	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 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.

4. Sequence variations caused by mutations or other factors in the target gene of the virus being tested may lead to false negative results.

- Product Performance]

 Positive and negative control consistency: The positive and negative notice is not included in this test kit have been tested with the company's orking reference materials, and the positive and negative compliance ites are both 100%. Sensitivity: limit of detection is 500 copies/mL. Specificity: This assay does not cross-react with non-target pathoge imples.

 - 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]

 1. Before using a PCR kit, check the lyophilized PCR mix at the bottom of the tube is in good condition (white and clumped). Liquifled 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 10V light.

 7. All Items in the kit should be treated as blowaste and bond to the coordinate with local laborate.

- tests, disinfect the works., , or UV light. ms in the kit should be treated as bio since with local laboratory regulations