

[Product Name] Canine Screening Combo IV Nuc CDV, CCoV) ic Acid Test Kit (Lyophil d) (CHV, CF

[Package S is]

[Intended Use] This kit uses fluorescence PCR methods to detect CPV and CCoV in dog feces, anal swab samples , CDV and CHV in eye, nose, and throat swab sa Th PCR is product requires operation with a real time quantitative strument 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 reacti-using RNA as the template. Under the action of a tragency how 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 traget fragment, and the 5'--3' exonuclease activity of the fluorescence separates the reporting group and quencher group of the fluorescence PCR instrument, and the result is detected using a fluorescence PCR instrument, and the formation of the amplification curve. [Cocatent]

[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		
Biohazard bag	4 pcs		

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

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

[Sample] Fresh fece

+ Eye, n d tl

It rest reces, and swabr Eye, nose, and undar swabr [Sample Handling] 1. This project is a double swab project, which requires simultaneous collection of eye and nasopharym swabs and fecal/anal swabs; 2. Eye, nose, and throat swabr Use a swab to moderately wipe the oral, nasal secretions, or conjunctival secretions; 3. Fresh feces swabr. Use a swab to collect an appropriate amount. Anal swabr. Wet the swab with diluent first and then collect the sample. 4. After the swab sample is collected, the two swab heads should be quito 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. 5. 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.

Avoid repeated integents and waves, -[Instructions for Use] 1. Add Elution 1.1 Add 20µL of elution from magnetic bead extraction, to each PCR tube. Close the lid tightly. 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 h) optiona ottom.)

2. PCR Amplification 2.1 Set the parameters as follow

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

2.2 The reaction volume is 20µL. Fluor

Channel	FAM	VIC	CY5	ROX
Target (Tube 1)	CCoV	Internal reference	CPV	
Target (Tube 2)	CDV			CHV

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
	Ct > 37 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 ≤ 30].

3.2 Test Result Inte

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 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.

egative results. . Sequence variations caused by mutations or other factors in the targo ene of the virus being tested may lead to false negative results.

gene of the virus being tested may read to faise negative results. [Product Performance] 1. Positive and negative control consistency: The positive and negative controls 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%. 3. 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 \leq %.

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