FLASHTEST

[Product Name]
Pigeon Adenovirus (PiAdV) Nucleic Acid Test Kit (Lyophilized)

[Package Specifications] 4 T/box

[Intended Use]
This kit uses fluorescence PCR methods to detect Pigeon A
(PiAdV).
This product requires operation with a real time quantitative
instrument and can achieve rapid POCT detection.

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[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 reactic 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'-x3' exonuclease activity of Tag polymerase separates the reporting group and quencher group of the fluorescence sprobe, 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	4 pcs		
Biohazard bag	4 pcs		

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

Compatible Instruments] his test kit is compatible with FLASHTEST real-time qua uorescence PCR instrument.

[Sample] cloacal swab, th

- [Sample Handling]
 Cloacal swab: insert the swab into the cloaca about 1.5~2cm, rotate and stain with feces.
 Throat swab: use a swab to moderately wipe the conjunctival secretions. With the swab in the sample buffer, shake it thoroughly to fully dissolve the pathogen on the swab head into the buffer.
 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. 1 Add 20 JL of elution from magnetic bead extraction, to each PCR tube. Close the lidt lightly.

 1.2 Shake all the liquid to the bottom of the PCR tube. Use the vortex mixe to mix the PCR tube the tovolky, 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. 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
3	58°C	20s	^40

Channel	FAM	VIC	ROX	CY5
Target	PiAdV			Exogenous reference

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]

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

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

 Other unconfirmed interferences or PCR inhibitors may lead to false

 - Improper sample conditions may recondended to the conditions of the conditions caused by mutations or other factors in the targene of the virus being tested may lead to false negative results.

- [Product Performance]

 I. 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 ates are both 100%.

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

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

 Frecision: 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 ≤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). Liquified 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 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.