FLASHTEST

[Product Name] Rabies virus (RABV) Nuc ic Acid Test Kit (Lyophiliz

cifications

ntended Use] iis kit uses fluorescence PCR methods to detect the Rabies virus (R is troudout requires operation with a real time quantitative PCR istrument 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 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)	
Instructions for use	1 pcs	- Room Temperature	
Sample buffer	4 pcs		
Swab	4 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 FLAS

Throat swabs, brain tissue
[Sample Handling]
1. Throat swab: Use a swab to moderately wipe the oral. With the swab in the sample buffer, shake it thoroughly to fully dissolve the pathogen on the swab head into the buffer.
2. Brain tissue:
Collect 1g from each part of the brain (make sure brainstem and cerebellum tissues are included).
Cut and mix brain sample: Take 1g sample from the mixed tissue. Add 1ml of saline to the sample and run homogenization.
Centrifuge homogenates at 3000 rpm for 2 minutes.
Add 100 µL of the homogenate supernatant to the sample buffer, thoroughly mix the sample buffer with a repetitive pipetting action, using the disposable dropper.
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 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.

[Instructions for Use]
1. Add Elution
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 mixer 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. PCR Amplification 2.1 Set the parameters as follo

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

2.2 The react	ion volume is	20µL. Fluorescence	channels:	
Channel	FAM	VIC	CY5	ROX
Target		Exogenous	Rabies	

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 > 37 or No Ct	Negative

3.2 Test Result Interpret	ation	
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]
The lest results of this kit should be comprehensively analyzed in niplunction with other relevant physical examination results and should to be used as the sole basis for diagnosis.
Improper sample collection, transportation, storage, handling, and adequate laboratory conditions may lead to inaccurate results.
Other unconfirmed interferences or PCR inhibitors may lead to false

gative results.

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

Product Performance]
Positive and negative control consistency: The positive and negative control consistency: The positive and negative notrols included in this test kit have been tested with the company's orking reference materials, and the positive and negative compliance tes are both 100%.

Sensitivity: limit of detection is 500 copies/mL.

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

mples.

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

Sample is \$5%.

[Biosafety Measures for Rabies Diagnostic Testing]

1. Biosafety Facilities

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2. Pre-exposure Influences and English and E

[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). Liquifled 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.