## **FLASHTEST**

[Product Name]
Rabbit Hemorrhagic Disease (RHD) Nucleic Acid Test Kit (Lyophiliz

# [Package Specifications] 4 T/box

[Intended Use]
This kit uses fluorescence PCR methods to detect Rabbit Hemorrhag Disease (RHD).
This product requires operation with a real time quantitative PCR 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 reactiving 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"-x3" exonuclease activity of Taq 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 C1 value of the sample and the formation of the amplification curve.

Item	Quantity	Storage
PCR master mix	4 pcs	-20°C (Away from light)
Instructions for use	1 pcs	
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 package.

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

[Sample] EDTA anticoagulated blood, Urine

- [Sample Handling]
  1. EDTA anticoagulated blood:
   Collect blood using a blood collection tube containing EDTA anticoagulant.
   Add 100 µL of blood to the sample buffer with a disposable dropper.
   Thoroughly mix the sample buffer with a repetitive pipetting action, using the disposable dropper.
  2. Urine
   Collect rabbit urine with a wrine con.

- Urine
  Collect rabbit urine with a urine cup.
  Add 200 µL of rabbit urine sample to the nucleic acid extraction rtridge, for extraction.

[Specimen storage]
Samples used for nucleic acid extraction and detection should be teste

Samples used for nucleic acid extraction and detection should 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 store for up to 10 days. Avoid repeated freezing and thawing of samples.

[Instructions for Use]

1. Add Elution

1.1 Add 20 µL 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 follows:

Chan Temperature

1	55°C	3min	1
2	94°C	30s	1
3	94°C 58°C	5s 20s	×40

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### e reaction volume is 20µL. Fluoresce

Channel	FAM	VIC	ROX	CY5
Target	RHD			Exogenous reference

# 3. Result Interpretati 3.1 Reference Range

Parameter	Reference Range	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
3.2 Test Result Interpreta		педапте

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.

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

- [Product Performance]

  [Product Performance]

- sample is 50%.

  [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). Liquiffed 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.