Notes

1. Please read this manual carefully before doing experiment.
2. Please check whether there is crystallization or precipitation in the lysis buffer before use. If it happens, please dissolve it in a 56℃ water bath.

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Viral DNA/RNA Kit

Product: Viral DNA/RNA Kit

Size: 50 tests/Box，200 tests/Box

Applications

It is used for nucleic acids isolation, enrichment and purification. The processed products can be used for clinical diagnosis in vitro.

Principle

Nucleic acid isolation and purification kit provides a simple, rapid and efficient method to extract DNA/RNA from swab, serum, plasma, bronchoalveolar lavage fluid and other cell-free body fluids. The unique buffer system enables the nucleic acid in the lysate to be efficiently and specifically binded to the silica-based membrane. The obtained nucleic acid has high purity, stable quality, and is free of protein, nuclease and other contaminants and inhibitors. It can be applied to various conventional operations, including PCR, fluorescence quantitative PCR and other experiments.

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Kit Components

Component	50 tests/Box		200 tests/Box	
	Size	Quantity	Size	Quantity
Lysis Buffer	15 ml/bottle	1	50 ml/bottle	1
Washing Buffer 1（concentrate）	15 ml/bottle	1	60 ml/bottle	1
Washing Buffer 2（concentrate）	7.5 ml/bottle	1	30 ml/bottle	1
RNase-Free Water	10 ml/bottle	1	25 ml/bottle	1
Adsorption Columns	50/package	1	50/package	4
Collection Tubes	50/package	1	50/package	4

Storage Condition and Valid Period

Store at 0-35°C up to 12 months.

We suggest products transportation at 0-40°C for no more than 7 days.

Sample Requirements

Applicable Samples：swab, serum, plasma, bronchoalveolar lavage fluid and other cell-free body fluids.

Procedure

Equipment and Reagents to Be Supplied by User：Constant temperature mixer (CWBIO,CW2593 is recommended), Isopropanol, 100% ethanol.

Things to do before starting:

a. Add isopropanol to Washing Buffer 1 (concentrate) and 100% ethanol to Washing Buffer 2 (concentrate) according to the label of the reagent bottle , then mark them.

b. Mix all the reagents and gently invert 3-5 times before use.

General purification procedure

1. Take 1.5 ml centrifugal tube (supplied by user), add 200 μl sample (the sample needs to be balanced to room temperature), 200 μl lysis buffer, 300 μl isopropanol. Vortex for 5 seconds, then shake 10 minutes with a constant temperature mixer of 1200 rpm at room temperature.

   Note: For wet swab sample, mix it thoroughly and take 200 μl. For dry swab sample, soak it in 400 μl normal saline and mix well, let stand for 5 minutes, centrifugate at 12000 rpm for 1 minute, and take 200 μl.

2. The obtained solution from step 1 was transferred to the adsorption column of collection tube. Centrifugation at 12000 rpm (~ 13400 g) for 1 minute, and discard the liquid. And then put the adsorption column back into the collection tube.
3. Add 500 μl washing buffer 1 (confirm that isopropanol has been added) to the adsorption column, centrifugate at 12000 rpm for 1 minute, discard the liquid, and put the adsorption column back into the collection tube.
4. Add 500 μl washing buffer 2 (confirm that 100% ethanol has been added) to the adsorption column, centrifugate at 12000 rpm for 1 minute, discard the liquid, and put the adsorption column back into the collection tube.
5. Centrifugation at 12000 rpm for 2 minutes, and discard waste liquid in the collection tube. Place the column at room temperature for 2 minutes and let it dry.
6. Put the adsorption column into a new collection tube, add 40-100 μl RNase-Free Water to the middle part of the adsorption column membrane，keep 2 minutes at room temperature and centrifugate for 1 minute at 12000 rpm, the nucleic acids solution was preserved at -80°C to prevent degradation.

Rapid purification procedure (swab sample only)

1. Take 1.5 ml centrifugal tube (supplied by user), add **300 μl sample** (the sample needs to be balanced to room temperature), 200 μl lysis buffer, 300 μl isopropanol. Vortex for 5 seconds, and centrifugate for a second to ensure no liquid residue on the lid and wall of the tube.

   Note: For wet swab sample, mix it thoroughly and take 300 μl. For dry swab sample, soak it in 500 μl normal saline and mix well, let stand for 5 minutes, centrifugate at 12000 rpm for 1 minute, and take 300 μl.
2. The obtained solution from step 1 was transferred to the adsorption column. Centrifugation at 12000 rpm (~ 13400 g) for 30 seconds, and discard the liquid. And then put the adsorption column back into the collection tube.
3. Add 500 μl washing buffer 2 (confirm that 100% ethanol has been added) to the adsorption column, centrifugate at 12000 rpm for 30 seconds, discard the liquid, and put the adsorption column into a new collection tube.
4. Add 40-100 μl RNase-Free Water to the middle part of the adsorption column membrane，centrifugate for 30 seconds at 12000 rpm, the nucleic acids solution was preserved at -80°C to prevent degradation.