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Viral DNA/RNA Kit V2

Cat. No. : CW3023S (50 preps)
Storage Condition: Store at room temperature (15-30°C).

Components

Component	CW3023S (50 preps)
Buffer RLC	30 mL
Buffer PGWT	30 mL
Buffer GWT2	30 mL
Proteinase K	1.25 mL
RNase-Free Water	10 mL
Spin Columns DM with Collection Tubes	50
RNase-Free Centrifuge Tubes (1.5 mL)	50

Introduction

The kit is suitable for simple, rapid and efficient separation and purification of DNA/RNA from whole blood, tissue homogenate, swabs, serum, plasma and other acellular body fluids. The unique buffer system enables the viral nucleic acids in the lysate to bind to the silica gel centrifugal adsorbent column in a highly efficient and specific manner, so that the viral nucleic acids obtained are of high purity and stable quality, free of protein, nuclease and other impurities, and can be used in a variety of routine operations, including PCR, fluorescence quantitative PCR and other experiments. It can be used for a variety of routine operations, including PCR, fluorescence quantitative PCR and other experiments.

Equipment to be Supplied by user

Thermostaticcirculator

Precautions

1. Read this manual carefully before the experiment.
2. Proteinase K needs long-term storage, please place at -20°C.
3. Check whether the Buffer RLC crystallizing or precipitating occurs before use. If there is any crystallization or precipitation, dissolve the Buffer RLC in a water bath at 56°C.
4. Pre-treatment of tissue sample: 20 mg tissue sample is put into 1.5 mL centrifuge tube (prepared by oneself), and 500 μL Buffer RLC was added. After the tissue homogenizer is broken, centrifuge at 12000 rpm (~13400 ×g) for 1 minute, and 200 μL supernatant is taken as sample.

Protocol

1. Take 1.5 mL centrifuge tube (prepared by oneself), add 500 μL Buffer RLC, 200 μL sample, and 20 μL Proteinase K, vortex for 5 s, and then place at room temperature and shake at 1200 rpm for 10 min.
   Note: For wet swab samples, take 200 μL for extraction after sufficiently shaking and mixing. For dry swab samples, soak in 400 μL saline, mix well with shaking and leave for 5 min, centrifuge at 12,000 rpm for 1 min, then take 200 μL for extraction.
2. For transient centrifugation, add the solution obtained in step 1 to the Spin Columns DM that has been loaded into the collection tube. Centrifuge at 12,000 rpm (~13,400 ×g) for 1 min, discard the waste solution, and place the column back into the collection tube.
3. Add 500 μL Buffer PGWT to the adsorbent column, centrifuge at 12,000 rpm for 1 min, discard the waste solution, and put the adsorbent column back into the collection tube.
4. Add 500 μL Buffer GWT2 to the adsorbent column, centrifuge at 12,000 rpm for 1 min, discard the waste solution, and put the adsorbent column back into the collection tube.
5. Centrifuge at 12,000 rpm for 2 min and discard the waste solution. Place the adsorption column at room temperature for 2 min and allow to dry.
6. Place the adsorption column in a new RNase-Free Centrifuge Tube, add 40-100 μL of RNase-Free Water to the center of the adsorption column membrane overhanging the column. It is placed at room temperature for 2 min and centrifuged at 12,000 rpm for 1 min to collect nucleic acid solution. Store at -80°C for long term.