AFTSpin Viral DNA/RNA Extraction Kit

Cat. No. : RK30113

Product components

Components	Component number	Size 50 RXN	Storage
Buffer MA	RM30174	30 mL	RT
Buffer RA	RM30175	30 mL	RT
Buffer MWP	RM30176	30 mL	RT
RNase Free ddH_2O	RM30177	15 mL	RT
Spin Columns GH3	RM30194	50 pcs	RT
2 mL Collection Tubes	RM30195	50 pcs	RT
1.5 mL RNase Free Microcentrifuge Tubes	RM30196	2 × 50 pcs	RT

Product Description

This kit utilizes unique buffer system and spin column which can specifically bind to viral DNA/RNA,and is suitable for viral DNA/RNA extraction from 200 μL whole blood/serum/gauze/saliva/swab/tissue homogenate and other samples. The silicon-based membrane in the Spin Columns GH3 is a unique material owned by our company. It efficiently and specifically adsorbs DNA/RNA and can effectively remove impurities such as protein. Extracted viral DNA/RNA has high purity, stable and reliable quality, and can be applied to various routine experiments, including reverse transcription, PCR, fluorescence quantitative PCR, library construction, and other experiments.

Storage Conditions

The kit can be stored for 12 months under room temperature and dry conditions.

Highlights

1. Convenient and fast: No heating, no need for proteinase K digestion, extraction can be completed within 20 minutes.
2. Safe: No phenol, chloroform and mercaptoethanol such easily volatile toxic agents addition.
3. Easy and efficient: Quickly remove impurities from the sample, significantly improving the yield and purity of nucleic acids.

Operational Instructions

Precautions

1. Equilibrate the samples to room temperature.
2. All protocol steps should be carried out at room temperature (15-25°C).
3. Various protective measures must be taken before operation.

Operation steps

1. Pipette 500 μL Buffer MA to 1.5 mL RNase Free Microcentrifuge Tubes, and then add 200 μL sample (sample needs to equilibrate to room temperature), vortex oscillate for 15 seconds, mix completely, and incubate at room temperature for 5 minutes.
2. Transfer all of the lysed sample from step 1 into the Spin Columns GH3 (the adsorption column is placed in the collection tube), and cover the tube cap, centrifuge at 12,000 rpm (13,400 × g) for 1 minute, discard the flow-through, and place the spin column back into the collection tube.
3. Open the cap of the Spin Columns GH3 and add 500 μL Buffer RA, and cover the tube cap, centrifuge at 12,000 rpm (13,400 × g) for 1 minute, discard the flow-through, and place the spin column back into the collection tube.
4. Open the cover of the Spin Columns GH3 and add 500 μL Buffer MWP, and cover the tube cap, centrifuge at 12,000 rpm (13,400 × g) for 1 minute, discard the flow-through, and place the spin column back into the collection tube.
5. Centrifuge at 12,000 rpm (13,400 × g) for 2 minutes to completely dry the adsorption membrane, and discard the

flow-through.

6. Place the spin column into a 1.5 mL centrifuge tube, open the cap, suspend 30-50 μL of RNase-free ddH2O over the center of the adsorption membrane, cover the cap. Let it stand at room temperature for 2 minutes. Centrifuge at 12,000 rpm (13,400 × g) for 1 minute to collect nucleic acid, and immediately use it for experiments or store at -80°C for long-term storage.

   Note: Make sure to equilibrate the elution buffer to room temperature before use, and be sure to add the elution buffer to the center of the membrane.