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Instructions for Use

【Introduction】

The virus is broken down through the lysate, which causes most proteins to become denatured and releases viral DNA. Selective adsorption of viral DNA using special polymer membrane materials, and Wash and elute to obtain high-quality DNA. Purified nucleic acid can be used in a broad range of molecular biology downstream applications, such as PCR, RT-PCR, sequencing, mutant analysis, and SNP.

【Kit Contents】

Cat#	**BSC72S1**	**BSC72M1**
Kit Contents	**50T**	**100T**
Protease K(PK)	500 μL	1 mL
Lysis Buffer	10.0 mL	20.0 mL
Wash Buffer I	12 mL (add 16mL absolute ethanol before use.)	24 mL (add 32mL absolute ethanol before use.)
Wash Buffer II	23 mL (add 54mL absolute ethanol before use.)	23 mL×2 (add 54mL absolute ethanol before use.)
Elution Buffer	10.0 mL	20.0 mL
Spin Columns	50	100
Handbook	1 copies	1 copies

【Additional apparatus and materials required but not supplied】

1. Microcentrifuge capable of 14,000rpm;
2. Metal bath or Water bath;
3. Vortex mixer;
4. 1.5 mL microcentrifuge tube;

5. Absolute ethanol (AR) .

【Storage and transportation】

1. The kit can be transported at room temperature.

2. The kit has demonstrated stability of 18 months when stored at room temperature. Proteinase K stored at 2-8°C.

【Sample Requirements】

If the liquid sample volume is less than 200μL, you can add PBS or normal saline to make the total volume to 200μL.

【Procedure】

1. Pipet 10μL PK into a 1.5 mL microcentrifuge tube (not provided).

2. Add 200μL sample (If the sample volume ≤200 μL, replenish PBS or normal saline to a volume of 200μL) into the microcentrifuge tube.

3. Add 200μL Lysis Buffer. Vortex mixing 5-10 seconds.

4. Incubate at 56℃ for 1 0 min in a heating block.

5. Add 200μL of ethanol (96–100%) to the sample, close the cap and mix thoroughly by pulse-vortexing for 5-10 seconds.

6. Transfer the mixture into a Spin Column, centrifuge at 10,000 g for 1 minute and discard the flow-through.

7. Add 500μL Wash Buffer I into the Spin Column, centrifuge at 10,000 g for 1 minute and discard the flow-through.

8. Add 700μL Wash Buffer II into the Spin Column, centrifuge at 10,000 g for 1 minute and discard the flow-through.

9. Optional: Repeat Step 8.

10. Place the spin column in a clean 1.5 mL collection tube. Centrifuge at 10,000 g for 1 min to dry the membrane completely.

11. Place the spin column in a clean 1.5 mL collection tube. Add 50-100 μL Elution Buffer to the central of the membrane; Incubate at the room temperature for 1 minutes.

12. Centrifuge at 13,000 g for 1 minute. Remove the Spin Basket and discard. Then the buffer in the microcentrifuge tube contains the DNA.

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【Interpretation of test result】

This kit is suitable for the extraction of tissue, whole blood, serum, plasma, ascites and other liquid samples.

【Limitations of test method】

Sample extraction quantity ≤200μL.

【Performance Indicators】

The extracted product is confirmed by the high sensitivity HBV DNA detection reagents that the sensitivity reaches 10 IU/mL; the linear range reaches 100 IU/mL-10^7IU/mL. This result is repeatedly tested and confirmed by national standard quality-controlled product.

【Important Notes】

1. Lysis Buffer may be precipitated at low temperature, please heated at 56 ℃ for a few minutes to restore the clarification.
2. Wash Buffer I and Wash Buffer II add the absolute ethanol as the volume marked on bottle label and mix well.
3. After receiving the kit, store the protease K at 2℃ to 8℃.

【Company Information】

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