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5. Elution

7) Place the spin column into a new 1.5 mL collection tube, add 50-100 μ L of RNase-free ddH₂O and place the column at room temperature for 2mins. Centrifuge at 12,000 rpm for 2 minutes at room temperature to elute and collect the RNA.

RNase-free ddH₂O could be preheated in 65-70°C water bath to increase elution efficiency.

Index of Symbols







Manufacturer



Temperature limit Batch code





Date of manufacture



Use-by date

Do not use if package is damaged and consult instructions for use



Do not re-use



In vitro diagnostic medical device



Authorized representative in the European Community/

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Manufacturer information

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biocomma® Nucleic Acid Purification Kit

A-AI-01-001EN

Virus DNA/RNA Purification Kit

(spin column)

Product name: Nucleic Acid Purification Kit

Model: MNP027-1E

Type: CNPM

Specification: 50pcs/box

Application

Using classic silica membrane adsorption technology and unique buffer system, biocomma® Virus DNA/RNA Purification Kit (spin column) can extract DNA/RNA from blood, tissue, organs, environmental sample, saliva and nasal sample, and maximum remove impurities protein and other organic compound impurities. The extracted virus DNA/RNA can be directly used for downstream applications such as PCR, RT-PCR, qPCR and qRT-PCR experiment.

Features

- ◆ The operation process is simple, quick, and non-toxic
- High purity DNA/RNA, stable quality

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Notice

Please be sure to read this notice before using this kit.

- 1. Avoid freezing and thawing the samples repeatedly, otherwise the extracted genome fragments will be reduced and the concentration will decrease.
- 2. Unless otherwise specified, all the centrifugation steps should be performed at room temperature.
- 3. Because Buffer PD contains irritants, please wear lab coat and gloves to protect yourself when operation. If splashed on skin or eyes, continuous rinse with clean water or saline immediately, go to the hospital for treatment if necessary.
- 4. The reagent contains alcohol, please tighten the bottle cap after use.

KIT contents

Contents	MNP027-1E (50pcs/box)
Buffer GLX	30 mL
Buffer PD	15 mL
Buffer PW	15 mL
RNase-free ddH ₂ O	10 mL
Spin column RC2	50 pcs
2.0 mL Collection tube	50 pcs
Proteinase K (20 mg/mL)	1 mL

Storage

The kits can be stored dry at RT (15-25 °C) for 12 months.

Preparation

- 1. Before first use, add the specified volume of reagent to Buffer PD, Buffer PW.
- 2. Prepare tip and collection tubes which are free of nucleic acid and nuclease.
- 3. Observe whether the solution precipitated before use, if there is precipitation in solution, dissolve it in 37 °C bath and cool to RT before use.

Protocol

Ensure that Buffer PW and Buffer PD have been prepared with appropriate volume of reagent as indicated in the label on bottle.

1. Sample preparation

A. Blood Sample

Prepare adequate blood sample (plasma or serum) for later use.

B. Sample of tissue homogenate

Take 0.1 g sample (about the soybean size) transfer it to a 2 mL collection tube, add 1mL sterile saline. After being ground and mixed with grinder, centrifuge at 7,000 rpm for 5mins on a palm centrifuge. Take the supernatant for later use.

C. Environmental samples

Dust: Use a cotton swab to wipe the dust on the surface of the instrument, table, etc., put it into 500 μ L of sterile saline, centrifuge at 7000 rpm for 5 minutes on a palm centrifuge. Take the supernatant for later use.

Sewage: Take a proper amount of sewage sample for later use.

D. Saliva, nasal liquid

Take a proper amount of nasal liquid or saliva sample for later use.

E. Swab sample

Take the oral, nasal or pharyngeal swab, put it directly into 500 µL of sterile saline and take the supernatant for later use. Or put the swab in transport medium for preservation.

2. Lysis

1) Take 100-300 μ L of the processed sample, add 500 μ L of Buffer GLX and 20 μ L of Proteinase K, mix by vortex for 1 min, and place at room temperature for 5 min.

Notice: a) For samples hard to lysis, put it in 65°C bath for 15-30mins will improve lysis efficiency.

b) If you need to remove RNA, add 4 µL RNase A (10 mg/mL, own – prepared reagent), and leave it at room temperature for 10 min to remove RNA.

3. Adsorption

2) Transfer the supernatant from step 2 into spin column RC2 which was put inside 2 mL collection tube. Centrifuge at 12,000 rpm for 1 minute and discard the flow-through. Put the spin column back into the 2 mL collection tube.

Notice: large volume solution could be added to RC2 in several times, small volume rare samples in the collection tube could be added to RC2 and centrifuge again to improve recovery efficiency.

4. Wash

- 3) Add 500 μ L of Buffer PD to the spin column (ensure isopropanol was added before use), centrifuge at 12,000 rpm for 1mins at room temperature, and discard the flow through and put the spin column RC2 back to collection tube.
- 4) Add 700 µL of Buffer PW to the spin column (ensure absolute ethanol was added before use), centrifuge at 12,000 rpm for 1mins at room temperature, and discard the flow through and put the spin column RC2 back to collection tube.
- 5) Repeat step 4)
- 6) Centrifuge at 12,000 rpm for 2mins, and discard the flow through. Put the RC2 at room temperature for 5-10mins.

Notice: After wash, open the lid of spin column and put at room temperature for several minutes to remove ethanol.