Viral DNA/RNA Extraction Kit (Magnetic Bead,16 pre-packaged)

For Viral DNA/RNA extraction, Only available for lab on IVD application

Cat No： AU52012

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【Product Name】

Magnetic Bead Viral DNA/RNA Extraction Kit

【Specification】

16 tests/kit

【Intended Use】

It is used to isolate and purify high-quality viral DNA / RNA from tissue, blood, serum, plasma, lymph fluid, acellular body fluids, cell culture supernatants or various virus preservation solutions.

【Test Principle】

During the nucleic acid extraction process, the magnetic bead adsorption principle is used to adsorb, transfer, and purify nucleic acids through special magnetic beads to automatically complete the nucleic acid extraction.

【Kit Contents】

	Contents	Specification	Quantity
1	Pre-packaged Extraction buffer	16 tests	1
2	Proteinase K	20mg	1
3	8 well stirring sleeve	8 well	2
4	Deionized Water	500uL	1
5	PBS buffer	5mL	1

【Storage and Expiry date】

Proteinase K (dry powder) should be stored at -20℃，other contents could be stored at room temperature. Expiry date is 12 months.

【Applicable instrument】

Suitable for AU1001 automatic nucleic acid extraction instrument

【Sample requirements】

Fresh samples. Experiment as soon as possible after sample collection. It can be stored temporarily at 2-8 ° C. If long-term storage, it should be stored at -20 ° C or -80 ° C.

【Instructions】

1. Reagent preparation (40 mg/mL concentration of Proteinase K solution preparation)

1.1 Add 500 uL of deionized water into 20 mg of proteinase K dry powder to get a proteinase K solution with concentration of 40 mg/mL.

1.2 Mix upside down and about 10 times to make sure the dry powder completely dissolved. The solution can be stored at 2-8 ° C for short-term use. If long-term storage, keep at -20 ° C. The number of repeated freeze-thaw cycles shall not exceed 5 times.

2. Sample preparation

Tissue samples: Take 10 ~ 30 mg of liquid nitrogen and grind to a fine powder, transfer to a 1.5 mL centrifuge tube, add 200 μL of 1 X PBS buffer to resuspend, and then proceed to the next step.

Sample Preservation Tube (with virus): no need to deal with, proceed directly to the next step

3. Pre-packaged deep well plate preparation

3.1 Carefully tear the plastic film of the pre-packaged deep-well plate and keep the deep-well plate stable.

3.2 Add 200uL of prepared sample to the deep well plate (Line 1 and 7). If sample volume is not enough, add PBS buffer. Then add 25 uL of proteinase K solution (concentration 40 mg/mL).

3.3 Put this deep well plate into the extractor smoothly, and then insert the stirring sleeve into the card slot.

4. Procedure for setting up the extractor

"Temperature setting": set the lysis temperature to 90 ° C and the elution temperature to 56 ° C. After saving the settings, click "Run" to start the experiment.

Step	Stations	Waiting Time (min)	Mixing Time (min)	Mixing Speed	Temp Time (min)	Temp (℃)	Magnetic Time (s)	Magnetic Speed	Volume (uL)
1	2	0	1	4	0	0	90	1	600
2	1	0	20	4	20	90	90	1	750
3	3	0	3	4	0	0	90	1	600
4	4	0	0	1	0	0	20	1	500
5	6	0	5	4	5	56	120	1	200
6	2	0	1	4	0	0	0	1	500

5. After the experiment is completed, transfer the DNA/RNA solution in the Line 6 and Line 12 of deep-well plate to a clean nuclease-free centrifuge tube for direct downstream experiments or to be stored at -20 ℃