

Viral DNA/RNA Extraction Kit (Spin Column)

Instruction for Use (V1.1)

[REF] UBE-S00150J

[Specification] 50 preps/kit

[Research Use Only]

Ultrassay Viral DNA/RNA Extraction Kit (Spin Column) provides a fast, simple, and cost-effective viral DNA/RNA miniprep method and it is suitable for viral RNA and DNA from plasma, serum, and cell-free body fluids.

[Test Principles]

Ultrassay Viral DNA/RNA Extraction Kit (Spin Column) uses silica membrane technology to eliminate the cumbersome steps associated with loose resins or slurries. Viral DNA/RNA purified with Virus DNA/RNA Kit (Column) is immediately ready for use.

Phenol extraction and ethanol precipitation are not required. The purified DNA/RNA is ready for use in downstream applications such as enzymatic reactions, qPCR, PCR, NGS library construction and so on.

[Kit Contents]

| No. | Content | 50 preps |
|-----|---------------------------------------|----------|
| 1 | Buffer DVN | 30ml |
| 2 | Buffer DW1P | 40ml |
| 3 | Buffer MWP | 40ml |
| 4 | RNase-Free ddH ₂ O | 15ml |
| 5 | Proteinase K | 1.2ml |
| 6 | Bind DNA Spin Column | 50pcs |
| 7 | 2ml Collection Tube | 50pcs |
| 8 | 1.5ml RNase-free Microcentrifuge Tube | 2x50pcs |

[Storage Conditions and Shelf Life]

Viral DNA/RNA Extraction Kit (Spin Column) can be stored dry at room temperature (15-25°C) and is stable for 12 months.

[Acceptable Specimens]

Plasma, Serum, and cell-free body fluids.

[Test Procedures]

Important notes:

- All protocol steps should be carried out at room temperature(15-25°C).
- Equilibrate the samples to room temperature.
 - Add 20µl Proteinase K and 500µl Buffer DVN to a clean 1.5ml RNase-Free Microcentrifuge Tube. Add 200µl of sample (plasma/serum/lymph) to the centrifuge tube, mix by vortex for 15sec and incubate at room temperature for 5min.
 - Carefully transfer the lysate onto the Bind DNA Spin Columns in a 2ml Collection Tube. Close the cap and centrifuge at 10,000rpm for 1min. Discard the filtrate and place the spin column in the same collection tube.
 - Carefully open the Bind DNA Spin Columns and add 700µl Buffer DW1P. Close the cap and centrifuge at 10,000rpm for 1 min. Discard the filtrate and place the spin column in the same collection tube.
 - Carefully open the Bind DNA Spin Columns and add 700µl Buffer MWP. Close the cap and centrifuge at 10,000rpm for 1 min. Discard the filtrate and place the spin column in the same collection tube.
 - Centrifuge at full speed 12,000rpm for 2 min to dry the membrane completely.
 - Place the Bind DNA Spin Columns in a clean 1.5ml RNase-Free Microcentrifuge Tubes, carefully open the lid of the spin column. Add 100µl of RNase-Free ddH₂O to the center of the membrane. Close the lid and incubate, centrifuge at 10,000rpm










for 1min. DNA / RNA stored at -20 °C.

Note: Ensure that the elution buffer is equilibrated to room temperature (15-25°C). If elution is done in small volumes (<50µl), the elution buffer should be dispensed onto the center of the membrane for complete elution of bound RNA and DNA.

[Precautions]

The sample should avoid repeated freezing and thawing, otherwise the extracted DNA fragments will get smaller and the DNA yield will decrease.

[Index of Symbols]

| Symbols | Meanings | Symbols | Meanings |
|-------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|----------------------------------------|
|  | Use By |  | Date of Manufacture |
|  | Temperature Limitation |  | Consult Instructions for Use |
|  | Lot Number |  | Manufacturer |
|  | Number of Tests |  | Reference Number |
| | |  | Any warnings and/or precaution to take |



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