PRODUCT INFORMATION

EZ-10 Spin Column Viral DNA Mini-Preps Kit

Product information for VT81812/VT81813:

Kit Contents

Components	VT81812 50 Preps	VT81813 250 Preps
Lysis-Buffer-V	30 ml	150 ml
Wash Solution (concentrate)	15 ml	75 ml
TE Buffer	10 ml	50 ml
EZ-10 Spin Column	50	250
2 ml Collection Tube	50	250
Protocol	1	1

Note 1: Lysis-Buffer-V Reagent contains chaotropic salt. Avoid contact with skin and eyes.
Note 2: Wash Solution is supplied as concentrates. Add **45 ml ethanol (96-100%)** to **15 ml Wash Solution** before use to obtain a working solution.

Storage and Stability

Store Lysis-Buffer-V at 4°C. Store other components at room temperature (15-25°C). The kit is stable for 1 year under these conditions.

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Introduction

The kit provides a fast, simple and highly reproducible method for isolation of viral DNA from broad range cell-free clinical samples including serum, urine and plasma for clinical research and life science applications. Viral DNA in lysates is selectively absorbed in spin column and other impurities don't bind in the column. The procedure is simple and fast, no phenol extraction is required. Purified viral DNA can be used for PCR, Real Time PCR and other clinical research applications.

Features

- ü Fast and easy processing using a rapid spin-column format. The entire procedure takes approx 20 minutes only.
- ü Sensitive. 30-50 virus particles in 1 ml of sample can be detected by PCR.
- ü No phenol/chloroform and no ethanol precipitation are required.
- ü Compatible with PCR, Real Time PCR and other clinical applications.
- ü Suitable for broad range cell-free clinical samples including serum, urine and plasma.
- ü No toxic. The kit does not contain toxic reagents.

Materials Supplied by User:

Microcentrifuge capable of at least 12,000 × *g*
Pipets and pipet tips
Vortexer
Ethanol (96-100%)
Microcentrifuge tubes (1.5 ml or 2 ml)
Water bath for heating at 65°C

Procedures

1. Sample preparation

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A. For liquid viral sample: Enrichment of virus. Transfer appropriate liquid sample to a new 1.5 ml micro-centrifuge tube, centrifuge at 24,000 *g* for 60 min at 4°C. Keep approximately 0.2 ml solution in the tube but discard the rest. Proceed to step 2.

B. For swab sample: Place the swab into a clean 1.5 ml micro-centrifuge tube, and snap off the handle. Add 1ml physiological saline, vortex for 30 s. Then transfer 0.2 ml solution to a new 1.5 ml micro-centrifuge tube. Proceed to step 2.

2. Add 0.6 ml of Lysis-Buffer-V Reagent into the tube (step 1), vortex vigorously for 30 sec; incubate at room temperature or 65°C for 10 min.

Note: Lysis-Buffer-V may form precipitation at 4°C. Dissolve it at 65°C and mix well before use.

3. Transfer the mixture into the EZ-10 spin column. Keep at room temperature for 2 min.

4. Spin at 10,000 *g* for 1 min, discard the flow-through.

5. Add 0.5 ml of Wash Solution to the column, spin at 10,000 *g* for 1 min, and discard the flow-through.

6. Repeat the Step 5 once.

7. Centrifuge at 10,000 *g* for 1 min, discard the flow-through residue.

8. Transfer the column to a new 1.5 ml micro-centrifuge tube,. Add 30-100 µl of TE Buffer onto the centre of the column; keep at room temperature for 2 min.

Note: Pre-warm TE Buffer at 60-80°C may improve the recovery of DNA.

9. Spin at 10,000 *g* for 1 min. Purified viral DNA is ready for use or keep at -20°C for long term storage.

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PRODUCTS ARE INTENDED FOR BASIC SCIENTIFIC RESEARCH ONLY!
NOT INTENDED FOR HUMAN OR ANIMAL USE!

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