PRODUCT INFORMATION

EZ-10 Spin Column Viral Total RNA Extraction Kit

Product information for VT82112:

Component:

Component	VT82112, 50 Preps
Buffer Rlysis-VG	30 ml
Universal RPE Solution	12 ml
RNase-free Water	5 ml
EZ-10 Spin Column	50
2 ml Collection Tube	50
Protocol	1

Universal RPE Solution is supplied in a concentrated form, before use, add **48 ml 96-100% ethanol** to **12 ml concentrated universal RPE solution** and mix well.

Storage:

The kit is valid for 1 year at 4°C.

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Introduction:

The kit is simplifies isolation of viral RNA from cell-free body fluids with fast spin-column format. No phenol/chloroform extraction is required. Viral RNA binds specifically to the silica membrane while contaminants are removed in the flow-through. PCR inhibitors such as divalent cations and proteins are completely removed in two efficient wash steps, leaving pure viral RNA to be eluted in RNase-free Water. Purified RNA is ready to use in RT-PCR, Northern blotting or other downstream applications.

Features:

- **ü** Fast. Using a rapid spin column format, the entire procedure takes about 20 minutes.
- **ü** High Yield. The recovery yield of viral RNA is generally >85%
- **ü** Versatile. Suitable for purification of viral RNA from a wide range of specimens, including serum, plasma, cell culture media, and milk.
- **ü** Non-toxic: No phenol/ chloroform are used.

Materials Supplied by User:

Microcentrifuge capable of at least 12,000 × *g*
RNase-Free pipets and pipet tips
Vortexer
RNase-Free Ethanol (96-100%)
RNase-Free Microcentrifuge tubes (1.5 ml or 2 ml)

Protocol:

1. Sample preparation

A. For liquid viral sample: Enrichment of virus. Transfer

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appropriate liquid sample to a new 1.5 ml microtube, centrifuge at 24,000 *g* for 60 min at 4°C. Then keep approx 0.2 ml solution in the tube but discard the others. Precede the step 2.

B. For swab sample: Place the swab into a clean 1.5 ml microtube, 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 microtube. Precede the step 2.

2. Add 0.6 ml of Buffer Rlysis-VG into the tube (step 1), vortex vigorously for 30 sec; incubate at room temprature for 10 min.

Note: Lysis-Buffer-VG may form precipitation at 4°C, please dissolve it at 65°C and mix well before use.

3. Transfer the mixture into the 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 Universal RPE 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 RNase-free microtube. Add 30-100 µl of RNase-free Water onto the centre of the column; keep at room temperature for 2 min.

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

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