BIO BASIC
Quality-Affordable Research

Product information

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EZ-10 Spin Column Viral Total RNA Extraction Kit

Catalog #: VT82112
Size: 50 preps
Storage: 4°C*

*: Product will be shipped at ambient temperature. Check storage conditions. Components have a one year expiration from time of purchase.

Product Description:

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:

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

Storage:

The kit is valid for 1 year at 4°C.

Composition:

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.

Material 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)

Procedure:

1. Sample preparation:

A) Liquid viral sample: Enrichment of virus - Transfer appropriate liquid sample to a new 1.5 ml microtube, centrifuge at 24,000 g for 60 minutes at 4°C. Then keep approx 0.2 ml solution in the tube but discard the others.

B) Swab sample: Place the swab into a clean 1.5 ml microtube, and snap off the handle. Add 1 ml physiological saline, vortex for 30 seconds. Then transfer 0.2 ml solution to a new 1.5 ml microtube.

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

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

3. Add equal volume of ethanaol, mix by inverting the tube.

4. Transfer the mixture into the spin column; keep at room temperature for 2 minutes.

5. Spin at 10,000 g for 1 minute, discard the flow-through.

6. Add 0.5 ml of Universal RPE Solution to the column, spin at 10,000 g for 1 minute, and discard the flow-through.

7. Repeat the Step 5 once.

8. Centrifuge at 10,000 g for 1 minute, discard the flow-through residue.

9. 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 minutes.

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