

Product information

QF 24 V4
V3 2020

Rapid Viral RNA Extraction Kit

Catalog #: VT4184
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 designed for preparation of high quality viral RNA from cell-free liquid specimens including blood serum, urine, body fluids. This method is fast and easy to perform. No mechanical disruption or column purification is required. Purified RNA is ready for most downstream applications such as RT-PCR, Northern Blotting, Poly A+ purification, nuclease protection and in vitro translation.

Features:

- High recovery yield. >90% of viral RNA can be recovered.
- Simple and rapid procedure. Entire procedure takes less than 30 minutes and can be completed in one tube.
- High Quality of viral RNA: Complete removal of contaminants.
- Isolation of total RNA for use in a wide range of applications.
- Economic.

Storage:

The kit is valid for 1 year at 4°C.

Procedure:

1. Sample preparation:

- A) For liquid viral sample:** Enrichment of virus. Transfer 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.
- 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 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.

2.1. Add 10µl of 5mg/ml Glycogen Solution.

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

Components:

Buffer VG	30 ml
RNase-free Water	5 ml
Protocol	1

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 or 2 ml)
- 5 mg/ml Glycogen Solution

3. Vortex the tube and add 0.7 ml isopropanol to the tube, vortex for 30 seconds.
4. Centrifuge at 13,000-15,000 x g for 15 minutes at room temperature, discard the supernatant carefully.
5. Add 1 ml pre-cold RNase-free 75% ethanol to the tube, mix well by inverting 10 times. Centrifuge at 15,000 x g for 5 minutes, discard the supernatant carefully.
6. Air-dry the pellet at room temperature with the lid open for 2~5 minutes.
 - NOTE:** This step is very important, residual ethanol in RNA will interfere some downstream applications.
 - NOTE:** Don't over dry.
7. Add 30~50 μ l RNase-free Water to dissolve RNA pellet. The purified RNA is ready for use. Or keep at -70°C for long term storage.
 - NOTE:** This RNA solution may contain insoluble material, don't centrifuge to remove the insoluble material. Use the mixture for RT-PCR.



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