

EasyPure® Simple Viral DNA/RNA Kit

Please read the datasheet carefully prior to use.

Cat.No. ER211

Storage: At room temperature (15°C-25°C) in a dry place for one year.

Description

EasyPure® Viral DNA/RNA Kit utilizes a unique lysis buffer to lyse virus and release DNA / RNA. The released DNA / RNA is effectively purified after specifically binding to a silica-based spin column. It is suitable for isolating viral DNA/RNA from up to 200 µl of plasma, serum, whole blood, tissue homogenate, cell-free body fluid, nasopharyngeal or oropharyngeal aspirate/wash, bronchoalveolar lavage fluid (BALF), tracheal aspirate, sputum, nasopharyngeal or oropharyngeal swab and animal cell culture supernatant. The isolated DNA/RNA with high purity can be applied in PCR, RT-PCR, qPCR, qRT-PCR, etc.

Kit Contents

Component	ER211-01 (50 rxns)	ER211-02 (200 rxns)
Binding Buffer 37 (BB37)	12 ml	48 ml
Clean Buffer 37 (CB37)	15 ml	60 ml
Wash Buffer 37 (WB37)	6 ml	24 ml
RNase-free Water	10 ml	20 ml
RNase-free Tube (1.5 ml)	50 each	200 each
RNA Spin Columns with Collection Tubes	50 each	200 each

Sample requirement

- Store at 4°C for no more than 72 hours; at -70°C for long term storage
- Avoid repeated freezing and thawing
- Swab samples should only be collected with synthetic tip swabs (such as polyester or Dacron®) with aluminum or plastic shafts.

Procedure

Before starting, add different volumes of isopropanol to BB37 and add different volumes of anhydrous ethanol WB37.

Component	ER211-01 (50 rxns)	ER211-02 (200 rxns)
Binding Buffer 37 (BB37)	4 ml isopropanol	16 ml isopropanol
Wash Buffer 37 (WB37)	24 ml anhydrous ethanol	96 ml anhydrous ethanol

1. Sample processing

• Liquid samples

- Add 200 µl BB37 to a sterile 1.5 ml microcentrifuge tube.
- Add 200 µl of sample to the microcentrifuge tube. Mix by vortexing for 15 seconds.
Note: If the sample volume is less than 200 µl, please add PBS or 0.9% NaCl to bring the total volume to 200 µl.
- Incubate at room temperature for 15 minutes.
- Add 250 µl of anhydrous ethanol (flocculation may appear at this stage). Mix by vortexing for 15 seconds.

• Solid samples (e.g., swabs)

- Vortex the single swab head and all the storage solution together for 1 minute to fully wash off the sample adhered to the swab.
- Pipette 200 µl of the above swab eluent into a sterile 1.5ml centrifuge tube, add 200 µl BB37. Mix by vortexing.
- Incubate at room temperature for 10 minutes.
- Add 250 µl of anhydrous ethanol, and mix by vortexing for 15 seconds.

- For viscous liquids such as sputum, refer to "Solid Samples"
- 2. Transfer the entire contents to a spin column, centrifuge at 12,000×g for 1 minute, and discard the flow through.
If the total volume is > 650 µl, load twice.
- 3. Add 500 µl of CB37. Centrifuge at 12,000×g for 1 minute and discard the flow through.
- 4. Add 500 µl of WB37. Centrifuge at 12,000×g for 1 minute and discard the flow through.
- 5. Centrifuge at 12000×g for 1 minute to remove the residual ethanol completely.
- 6. Place the spin column into a new RNase-free 1.5 ml microcentrifuge tube. Add 20-50 µl of RNase-free Water to the center of the column, and incubate at room temperature for 1 minute.
- 7. Centrifuge at 12000×g for 1 minute to elute DNA/RNA
- 8. Store the eluted DNA (at -20°C) or RNA (at -70°C).

Notes

- All the centrifugation steps are carried out at room temperature.
- Please check to make sure that anhydrous ethanol has been added into BB37 before use.
- Please check to make sure that anhydrous ethanol has been added into CB37 before use.

FOR RESEARCH USE ONLY