

REF 10034

Σ 100 Preparations

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(This kit is for in vitro diagnostic (IVD), for professional use only)

1. Description

AddPrep Viral Nucleic Acid Extraction Kit provides a fast, easy method for the preparation of viral RNA and DNA from plasma, serum, cell-free body fluids, cell-culture supernatants and virus-infected samples. AddPrep Viral Nucleic Acid Extraction Kit buffer system also provides the effective binding condition of RNA and DNA to microfiber-silica-based membrane through mix with lysis buffer. And then the impurities on the membrane are washed away by two different washing buffers. Purified viral RNA/DNA is ready for use in downstream applications such as PCR, RT-PCR, cDNA synthesis and real-time PCR etc.. And also this kit is for in vitro diagnostic (IVD), for professional use only.

2. Kit Components

Buffer and Material	Size	Buffer and Material	Size
Spin column	100 pcs	Washing 2	12 ml (Add Ethanol 48 ml)
Lysis	40 ml	Elution	20 ml
Washing 1	30 ml (Add Ethanol 30 ml)		

3. Storage and Stability

AddPrep Viral Nucleic Acid Extraction Kit is stable for 2 years when stored in a constant temperature 10 ~ 40 °C.

4. Before You Begin

- 1) Add ethanol to Washing 1 Buffer and Washing 2 Buffer before use.
- 2) Check Lysis Buffer and Washing 1 Buffer for salt precipitation, and salt precipitant can be dissolved by warming at 50°C.
- 3) Prepare β-mercaptoethanol (14.2M) and isopropanol.

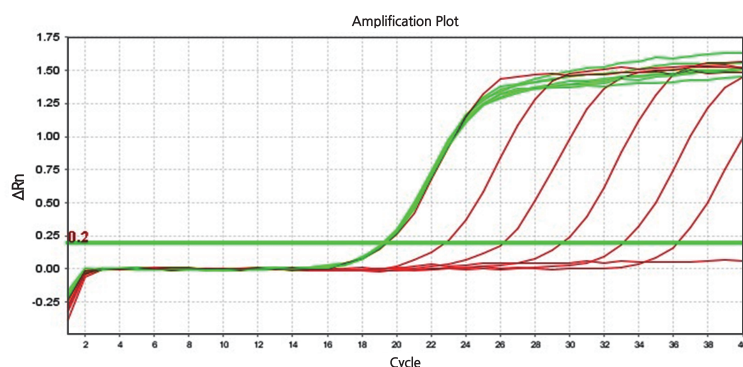
5. Extraction Protocol

- 1) Prepare 200 µl of sample (plasma, serum, cell-free body fluids, cell-culture supernatants, virus-infected samples) into a 1.5 ml micro-centrifuge tube (not provided): In the case of virus infected feces and cell line, transfer 20~50 mg in 1.5ml micro-centrifuge tube and dissolve with 250 µl of DW (Nuclease free) and vortex for 10~15 sec. and then centrifuge at 13,000 rpm for 30 sec. Use approximately 150~200 µl of supernatant.
- 2) Add 350 µl of Lysis Buffer to the sample tube, and then add 3.5 µl β-mercaptoethanol (14.2M) and mix well by pulse-vortexing for 10 ~15 sec.
- 3) Incubate at room temperature for 10 min and centrifuge at 3,000 rpm for 5 sec.
- 4) Add 150 µl of isopropanol to lysate and mix well by pulse-vortexing for 15 sec.: After this step, briefly spin down to get the drops clinging under the lid.
- 5) Carefully transfer the lysate into the upper reservoir of the spin column with 2.0ml collection tube without wetting the rim.
- 6) Centrifuge at 13,000 rpm for 1 min: Pour off the flow-through and assemble the spin column with the 2.0 ml collection tube.
- 7) Add 500 µl of Washing 1 Buffer to the spin column with collection tube and centrifuge at 13,000 rpm for 1 min: Pour off the flow-through and assemble the spin column with the 2.0 ml collection tube.
- 8) Add 500 µl of Washing 2 Buffer to the spin column with collection tube and centrifuge at 13,000 rpm for 1 min: Pour off the flow-through and assemble the spin column with the 2.0 ml collection tube.
- 9) Dry the spin column by additional centrifugation at 13,000 rpm for 1 min to remove the residual ethanol in spin column.
- 10) Transfer the spin column to the new 1.5 ml micro-centrifuge tube (Not provided).
- 11) Add 50 ~150 µl of Elution Buffer to the spin column with micro-centrifuge tube, and wait for at least 1 min.
- 12) Elute the Viral Nucleic Acid by centrifugation at 13,000 rpm for 1 min: Purified RNA/DNA can be stored at -20°C for immediate use and stored at -70°C for long term storage.



■ Performance Data of AddPrep Viral Nucleic Acid Extraction Kit

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- Performance of one-step qRT-PCR test with eluted HIV RNA from serum by AddPrep Viral RNA Extraction Kit
- The RNA was 10-fold diluted from 1, 10^{-1} , 10^{-2} , 10^{-3} , 10^{-4} , 10^{-5} fold (red line, FAM) and internal positive control (green line, HEX)
- PCR was performed with Add-Probe RT-PCR Kit (Code 74221)

Symbol Table

Symbol	Meaning	Symbol	Meaning
	Manufacture		In Vitro Diagnostic Medical Device
	Lot Number		Use by/expiration date
	Temperature limit		Catalog number
	Authorized representative in the European Community		Consult instructions for use
	Caution		Contains sufficient for <n> tests
	CE marking Conformance Europeene Notified Body Reference no. ###		

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