

**REF 10034**

**CONT 100**

(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 provides the effective binding condition of RNA and DNA to microfiber-silica-based membrane through mix with lysis and binding buffers. And then the impurities on the membrane are washed away by two different wash 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

Solution & Material	Size	Solution & 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

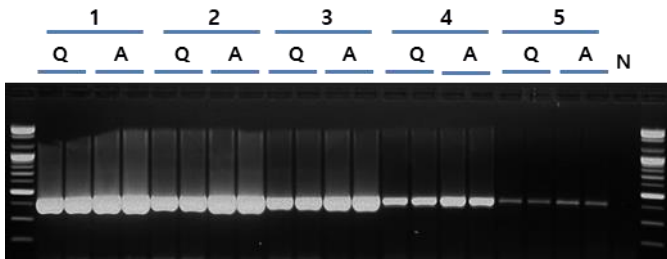
1. Add ethanol to Washing 1 Solution and Washing 2 Solution before use.
2. Check Lysis Solution and Washing 1 Solution for salt precipitation, and salt precipitant can be dissolved by warming at 50°C.
3. Prepare β-mercaptoethanol (14.2M) and isopropanol.

## 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 30sec. Use approximately 150~200 µl of supernatant.
- 2) Add 350 µl of Lysis Solution 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 Solution 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 Solution 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 Solution 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.

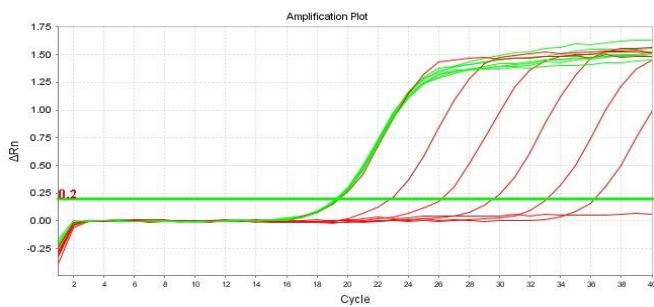


## ■ Performance Data of AddPrep Viral Nucleic Acid Extraction Kit



- Performance of one-step RT-PCR test with eluted CMV RNA from infected plant leaf by each supplier Viral RNA Extraction Kit
- The CMV RNA was 10-fold diluted from 1,  $10^{-1}$ ,  $10^{-2}$ ,  $10^{-3}$ ,  $10^{-4}$  fold

Lane Q: Supplier Q (Viral RNA Mini Kit)  
Lane A: Add Bio (AddPrep Viral Nucleic Acid Extraction Kit)  
Lane N: Negative control  
PCR was performed with AddScript RT-PCR Master (2X, Code



- 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)

## AddBio Symbol Table

Symbol	Symbol Title	Symbol	Symbol Title
	Manufacturer	<b>REF</b>	Catalog Number
	CE marking Conformité Européenne Notified Body Reference		Caution
	Use-by/ Expiration Date	<b>IVD</b>	In Vitro Diagnostic Medical Device
	Consult Instructions for Use		Potential Biohazard
<b>LOT</b>	Batch Code	<b>CONTROL -</b>	Negative Control
	Temperature Limit	<b>CONTROL +</b>	Positive Control
<b>CONT</b>	Contains/Contents	<b>EC REP</b>	Authorized representative in the European Community

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**CE** **IVD** (For Professional Use Only)