

**FavorPrep<sup>TM</sup>  
Viral Nucleic  
Acid Extraction Kit I**

**User Manual**

**Cat. No.: FAVNK 001 (50 Preps)  
FAVNK 001-1 (100 Preps)  
FAVNK 001-2 (300 Preps)**

**For Research Use Only**

v.0912

# Introduction

FavorPrep™ Viral Nucleic Acid Extraction Mini Kit I is designed for extraction of Viral DNA or RNA from cell free fluids such as serum, plasma, body fluid and cell cultured supernatant. This method first lyses virus by using a chaotropic salt, then binds nucleic acid to silica-based membranes. After washing with ethanol-contained wash buffer, contaminants and enzyme inhibitors will be removed completely. It takes only 20 min for an entire procedure, the purified nucleic acid is ready for RT-PCR and PCR .

## Kit Contents

Cat. No. / preps	FAVNK001 (50 preps)	FAVNK001-1 (100 preps)	FAVNK001-2 (300 preps)
VNE Buffer	35 ml	70 ml	200 ml
Wash Buffer 1 * (concentrated)	22 ml	44 ml	132 ml
Wash Buffer 2 †(concentrated)	20 ml	20 ml x 2	50 ml x 2
RNase-free Water	6 ml	12 ml	20 ml
Carrier RNA	0.4 mg	0.8 mg	2.2 mg
VNE Column	50 pcs	100 pcs	300 pcs
Collection Tube	100 pcs	200 pcs	600 pcs
Elution Tube	50 pcs	100 pcs	300 pcs
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\*Add 8 ml / 16 ml / 48 ml of ethanol (96~100%) to Wash Buffer 1 when first open.

† For FAVNK001 / FAVNK001-1, add 80 ml of ethanol (96~100%) to each Wash Buffer 2 when first open. For FAVNK001-2, add 200 ml of ethanol (96~100%) to each Wash Buffer 2 when first open.

# Specification

Sample: 150  $\mu$ l of plasma, serum, body fluid and cell cultured supernatant.

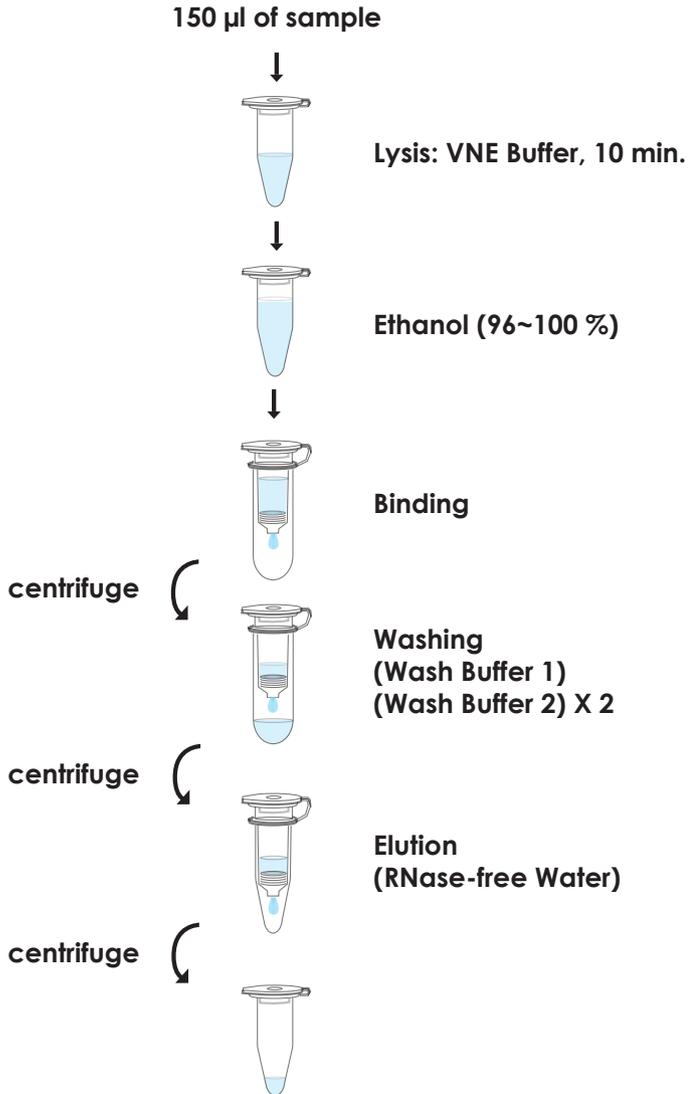
Handing time: 20 min.

Elution Volume: 50  $\mu$ l.

# Important Notes

1. Make sure everything is RNase-free when handling this system.
2. Buffers provided in this system contain irritants. Wear gloves and lab coat when handling these buffers.
3. Add 1 ml of VNE Buffer to the tube of lyophilized Carrier RNA, mix well by vortexing and transfer the mixture to the VNE Buffer when first open. Store the Carrier RNA added VNE Buffer at 4 °C.

# Brief Procedure



# General Protocol:

## Please Read Important Notes Before Starting Following Steps.

- 1. Transfer 150  $\mu$ l of sample (serum, plasma, body fluids or cell cultured supernatant ) into a microcentrifuge tube (not provided).**  
--If the sample volume is more than 150  $\mu$ l, separate it into multiple tubes.
- 2. Add 570  $\mu$ l of VNE Buffer (Carrier RNA added) to the sample, mix well by vortexing, and incubate for 10 minutes at room temperature.**  
--Make sure that Carrier RNA has been added to the VNE Buffer when first use.
- 3. Add 570  $\mu$ l of ethanol (96~100%) to the sample mixture, mix well by plus-vortexing.**
- 4. Combine a VNE column with a Collection Tube (provided).**  
Transfer up to 700  $\mu$ l of sample mixture (ethanol added) to the VNE Column, centrifuge at 8,000 x g for 1 min then discard the flow-through.  
Combine the VNE Column with the used Collection Tube.
- 5. Transfer the rest of sample mixture (ethanol added) to the VNE Column, centrifuge at 8,000 x g for 1 min.**  
Discard the flow-through and the Collection Tube.  
Combine the VNE Column with a new Collection Tube (provided).
- 6. Add 500  $\mu$ l of Wash Buffer 1 (ethanol added) to the VNE Column, centrifuge at 8,000 x g for 1 min then discard the flow-through.**  
Combine the VNE Column with the used Collection Tube.  
--Make sure that ethanol (96~100%) has been added into Wash Buffer 1 when first open.
- 7. Add 750  $\mu$ l of Wash Buffer 2 (ethanol added) to VNE Column, centrifuge at 8,000 x g for 1 min then discard the flow-through.**  
Combine the VNE Column with the used Collection Tube.  
--Make sure that ethanol (96~100%) has been added into Wash Buffer 2 when first open.

8. Repeat step 7. Add 750  $\mu$ l of Wash Buffer 2 (ethanol added) to VNE Column, centrifuge at 8,000 x g for 1 min then discard the flow-through. Combine the VNE Column with the used Collection Tube.
9. Centrifuge at full speed 13,000 X g for an additional 3 min to dry the VNE column.  
Discard the flow-through and the Collection Tube.  
--**Important step!** This step will avoid the residual liquid to inhibit the subsequent enzymatic reactions.
10. Combine the VNE Column with a Elution Tube (provided).  
Add 50  $\mu$ l of RNase-free Water to the membrane center of the VNE Column.  
Stand VNE Column for 2 min.  
--**Important step!** For effective elution, make sure that the RNase-free Water is dispensed onto the membrane center and is absorbed completely.
11. Centrifuge for 2 min to elute the nucleic acid.
12. Store nucleic acid at -70 °C.