

【Product Name】 HiPure Viral RNA Kit

【Product specifications】 100 Preps/Kit

【Intended Use】

This kit is used for extracting total viral nucleic acid from non-cell/low cell content biological samples such as body fluid, serum, plasma, immersion solution, tissue homogenate supernatant, culture supernatant, etc., the extracted products can be used for clinical in vitro detection.

【Principle】

This product is based on silica gel purification. The sample is lysed and digested with lysate and protease, DNA/RNA is released into the lysate. Transfer to an adsorption plate and filter column. DNA/RNA is adsorbed on the membrane, while protein is not adsorbed and is removed with filtration. After washing proteins and other impurities, DNA / RNA was finally eluted with low-salt buffer (10 Mm Tris, pH 8.0).

【Main Composition】

Cat.No	IVD4175	Contents
HiPure Viral Column	100	Adsorption column
2ml Collection Tubes	100	PP Column
PK/Carrier RNA	50 mg/310ug	Protease/Poly A
Protease Dissolve Buffer	5 ml	Glycerol/Tris/CaCl ₂
Buffer VLE	42 ml	Tris/EDTA/Guanidine Salt
Buffer CE	60 ml	Tris/EDTA/Guanidine Salt
Nuclease Free Water	15 ml	10mm Tris,pH8.0

【Storage conditions and Validity】

This kit is shipped and stored at room temperature and is valid for 12months.

【Sample Requirements】

The kit is suitable for extracting viral DNA/RNA from non-cell/low cell content biological samples such as body fluid, serum, plasma, immersion solution, tissue homogenate supernatant, culture supernatant, etc.. As viral nucleic acid is easy to degrade, it is recommended to detect nucleic acid immediately after obtaining it, or freeze it at -20°C in a short time and store it at -80°C for a long time in order to ensure the quality of detection.

【Preparation before Use】

- Dissolve PK/Carrier RNA: Add 2.5ml Protease Dissolve Buffer to the bottle of PK/Carrier RNA, and store at -20°C after dissolved.
- Add 18 ml Isopropanol to the bottle of Buffer VLE, and store at room temperature.
- Add 60 ml Isopropanol to the bottle of Buffer CE, and store at room temperature.

【 Protocol 】

1. Pipet 20µl PK/Carrier RNA into a 1.5 ml microcentrifuge tube (not provided).

2. Add 200µl of plasma or serum into the microcentrifuge tube.

If the sample volume is less than 200µl, add the appropriate volume of 0.9% sodium chloride solution to bring the volume of sample up to a total of 200µl.

3. Add 400µl Buffer VLE to the tube and mix thoroughly by vortex for 15 seconds. Incubate at room temperature for 5-10 min.

In order to ensure efficient lysis, it is essential that the sample and Buffer VLE are mixed thoroughly to yield a homogeneous solution.

4. Take out a new HiPure Viral column and place the column into a new 2ml Collection Tube.

5. Transfer ~600µl of the sample to the column. Centrifuge at 12,000 x g for 30-60 seconds.

6. Discard the filtrate and place the column back into the collection tube. Add 500µl Buffer CE to the column. Centrifuge at 12,000 x g for 30-60 seconds.

7. Discard the filtrate and place the column back into the collection tube. Add 500µl Buffer CE to the column. Centrifuge at 12,000 x g for 30-60 seconds.
8. Discard the filtrate and place the column back into the collection tube. Centrifuge the column at 12,000 × g for 3 minutes to dry the column.
9. Transfer the column to a new 1.5 ml centrifuge tube.
10. Add 50~100µl Nuclease Free Water to the center of the membrane of the column. Centrifuge at 13,000 × g for 1 minute.

Ensure that the elution buffer is equilibrated to room temperature. If elution is done in small volumes (<50 µl), the elution buffer must be dispensed onto the center of the membrane for complete elution of bound RNA and DNA. Elution volume is flexible and can be adapted according to the requirements of the downstream application. Remember that the recovered eluate volume will be approximately 5 µl less than the elution buffer volume applied onto the column. Incubating the column loaded with Nuclease Free Water for 5 min at room temperature before centrifugation generally increases DNA and RNA yield.

11. Discard the column and store the DNA/RNA at -80° C.













【Product performance】

- Appearance inspection: The kit should be completely composed, the appearance of the package should be clean, no leakage, and no damage; the signs and labels should be clear.
- Nucleic Acid Purity: Extract 1mg liver homogenate (PBS, 200µl) according to the instructions. The OD260/280 value is 1.7-2.0, A260/230 value is 1.2-1.8.
- Nucleic Acid yield: Extract 1mg liver homogenate (PBS, 200µl) according to the instructions, the yield is 2~ 5ug.
- Nucleic Acid integrity: 1mg liver homogenate (200µl) was extracted according to the instructions. There was no obvious degradation of DNA / RNA during electrophoresis of the product.

【Basic Information】

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【Explanation of Marks】

	The product is used in vitro, please don't swallow		Please don't reuse it
	Validity		Please read the instruction book carefully before using
	Warning, please refer to the instructions in the annex		Manufacturer
	Temperature scope within which the product is reserve		Batch number
	European union authorization representativ		Keep dry
	Avoid overexposure to the sun		Don't use the product when the package is damaged