【Product Name】MagPure Viral DNA/RNA Kit

【Cat. No. & Specifications】IVD5412, 96 Preps/Kit; 200 Preps/Kit

【Intended Use】

This product is suitable for extracting total viral nucleic acid from cell-free/low-content cell biological samples such as body fluids, serums, plasma, soaking solutions, tissue homogenate supernatant, and culture supernatant. The Purified DNA/RNA is used for RT-PCR and PCR detection.

【Principle】

This product is based on the purification method of high binding magnetic particles. The sample is lysed and digested under the action of lysate and Protease. DNA/RNA is released into the lysate. After adding magnetic particles and binding solution, DNA/RNA will be adsorbed on the surface of magnetic particles, and impurities such as proteins will be removed without adsorption. The adsorbed particles were washed with washing solution to remove proteins and impurities, washed with ethanol to remove salts, and finally DNA/RNA was eluted by Nuclease Free Water.

【Main Composition】

Purification Times	96 preps	200 preps	Contents
MagPure Particles N	2.5 ml	5 ml	Magnetic Bead/NaCl/NaN_3
PK/Carrier RNA	25 mg	50 mg	Protease
Protease Dissolve Buffer	5 ml	5 ml	Glycerol/$CaCl_2$/Tris
Buffer MLB*	60 ml	120 ml	Guanidine Salt/Isopropanol/EDTA
Buffer MW1*	26 ml	53 ml	Guanidine Salt/Tris/EDTA
Nuclease Free Water	15 ml	30 ml	10mm Tris, pH8.0

【Storage conditions and Validity】

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

【Applicable Instrument】

Nucleic Acid Extraction Machine such as KingFisher Flex, Kingfisher Duo or Similars. Automatic Nucleic acid workstation such as Tican, Hamilton, Aurora, BGI or similars.

【Sample Requirements】

Virus DNA/RNA was extracted from whole blood, serum, plasma, diseased materials, feces and body fluid. If the volume of liquid sample less than 200μL, add PBS buffer or saline to 200μL.

【Preparation before Use】

- According to the label, add 1.25ml(96 preps), 2.5ml(200 preps) Protease Dissolve Buffer Blue into the bottle of PK/Carrier RNA, then stored at - 20°C after dissolve.
- Dilute Buffer MW1 with 34ml (96 preps), 67ml (200 preps) absolute ethanol as shown on the label and store at room temperature.
- Prepare a bottle of 80% Ethanol using Absolute Ethanol and Nuclease-free Water, and store at room temperature.

【Operation of Liquid Workstation or Manual】

1. In a new 2.2ml Plate or 1.5ml Centrifuge Tube, add 10μl PK/Carrier RNA, 20μl MagPure Particles N and 500μl Buffer MLB.
2. Transfer 200μl of the sample to the plate or tube, Shaking/Vortex to mix for 5~10 minutes.
3. Transfer to a magnetic stand, and let stand for 2~3 minutes to adsorb the magnetic beads. Completely remove and discard the cleared supernatant.
4. Add 500μl Buffer MW1 and shake/Vortex to mix for 30 seconds. Transfer to a magnetic stand and let it stand for ~1 minutes to attract magnetic beads. Completely remove and discard the cleared supernatant.
5. Add 500μl 80% ethanol and shake/Vorrex for 30 seconds. Transfer to a magnetic stand and let it stand for 1 to 2 minutes to attract magnetic beads. Completely remove and discard the cleared supernatant.
6. Repeat step 5 once.

7. Air dry for ~3 minutes at 60°C or ~10min at room temperature.
8. **Add 50~100μl Nuclease Free Water and shake/vortex for 5~10 minutes to disperse the magnetic beads.**
9. Transfer to a magnetic stand and let stand for 1 minutes.
10. Transfer the DNA/RNA solution to a new Plate or a new 1.5 ml centrifuge tube.

【96-Channel Nucleic Acid Extractor Operation (KingFisher Flex)】

1. Add the Reagents/sample to the well of f the deep well plate according to the table below.

Name of the Plate	Pre-loaded reagents	Addition before use
Sample plate	500μl Buffer MLB 20μl MagPure Particle MPN	200μl sample 10μl PK/Carrier RNA
Wash Plate 1	500μl Buffer MW1, Put in 96 magnetic Tip	
Wash Plate 2	500μl 80% ethanol	
Wash Plate 3	500μl 80% ethanol	
Elution plate	50~100μl Nuclease Free Water	

2. Turn on the machine, start the corresponding program.
3. Place the 96-well plate into the instrument as prompted.
4. Finish the operation after ~20 minutes. Remove the 96-well plate and magnetic jacket.
5. Store the Elute product at -20~8°C.

【Product performance】

1. 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.
2. 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.
3. Nucleic acid yield: Extract 1mg liver homogenate (PBS, 200μl) according to the instructions, the yield is 2~ 5ug.
4. 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】

IVD	The product is used in vitro, please don't swallow it		Please don't reuse it
	Validity		Please read the instruction book carefully before using
	Warning, please refer to the instructions in the annex		Manufacturer
2℃ 8℃	Temperature scope within which the product is reserved	LOT	Batch number
EC REP	European union authorization representative		Keep dry
	Avoid overexposure to the sun		Don't use the product when the package is damaged