HELINI

MagPure

Viral Nucleic acid Purification Kit

[Plasma/Serum/CSF/VTM/Cell culture/Swabs pellets]

Cat. No: 2502 – 24 tests

Compatible with: HELINI MagPure 32 Automatic Purification system

Introduction

The HELINI MagPure Nucleic acid purification Kit is designed for rapid automated purification of nucleic acid from various samples, such as plasma, serum, CSF, urine, nasal swabs, buccal swabs and urogenital swabs using HELINI MagPure Instrument. The Nucleic acid purified using the HELINI MagPure Nucleic acid purification kit contains high quality and free of proteins, nucleases, and other contaminants or inhibitors. They are, therefore, suitable for direct use in many different downstream applications, such as qPCR (quantitative PCR), RT-qPCR (reverse transcription qPCR), and several other enzymatic reactions.

Intended Use

The reagents and specific plastic consumables are designed for use with the HELINI MagPure 32 automatic purification system.

Principle and Procedure

The HELINI MagPure Nucleic acid purification Kit uses magnetic-particle technology for DNA/RNA purification. The HELINI Biomolecules MagPure technology combines the speed and efficiency of nucleic acids purification with easy handling of magnetic particles. The purification process requires no phenol/chloroform extraction and needs very little hands-on time. The HELINI MagPure Magnetic Beads are highly reactive, super paramagnetic beads. The first step of the protocol lyses the sample, after which the nucleic acids can bind to the surface of the Magnetic Beads in the presence of ethanol. The following three effective wash steps dispose of proteins, cell debris, and any residual contaminants, while the nucleic acids bound to the MagPure Magnetic Beads are transferred through the wash steps. High-quality nucleic acids are eluted into the nuclease-free water, and are ready for subsequent downstream processes.

Kit components

Components	24 Prep	Storage
MagPure beads	360µl	+4°C to +25°C
Carrier RNA - 5µl/reaction	124µl	-20°C
Proteinase K - 20µl/reaction	500µl	-20°C
Beads buffer	7.5ml	RT
Lysis buffer	5ml	RT
Wash buffer-1	12ml	RT
Wash buffer-2	8ml	RT
Elution buffer	6ml	RT
8 well Comb	8	RT
6 well plates	24	RT
Instruction manual		

Safety Information

When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. Discard sample and assay waste according to your local safety regulations.

Technical Assistance

For technical assistance and more information, please contact;

0091-9382810333
0091-44-24490433
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Material Required

- Single or multichannel micro Pipettes Variable Volume 0.5-10µl, 10-100µl, and 100-1000µl
- Sterile pipette tips with aerosol barrier 2-20µl, 10-100µl, and 100-1000µl
- Disposable powder-free gloves
- 1.5ml/2ml centrifuge tubes
- 100% Ethanol

Instrument

HELINI MagPure 32/96 Automatic DNA/RNA purification system

Reagent Preparation

Add the indicated volume of ethanol (96-100%) to Wash Buffer I (concentrated) and Wash Buffer II (concentrated) prior to first use:

	Cat.No:2506– 24 prep	
	Wash buffer-1	**Wash Buffer-2**
Concentrated Buffer	12ml	8ml
Ethanol [96 – 100%] to add	8ml	32ml
Total volume	**20ml**	**40ml**

MagPure 6 well reagents filling order as follows;

Column-1	Lysis buffer	200µl
Column-2	Beads buffer	300µl
Column-2	MagPure Beads	12.5µl
Column-3	Wash buffer-1	750µl
Column-4	Wash buffer-2	750µl
Column-5	Wash buffer-2	750µl
Column-6	Elution buffer	110µl

Protocol

Plasma/serum/CSF/Viral carrier media/Swabs/Cells:

Transfer 200µl Plasma, Serum, CSF and Viral carrier media, suspended Swab pellets to the first well.

Procedure

1. Insert 6well plate into Plate holder. Label 1st well as “S” and 6th well as “E”. Label the sample number anywhere in the plate.

[“S” = Sample “E” = Elute]

S					E

2. Add the reagents in the following order;

Column-1	Lysis buffer	200µl
Column-2	Beads buffer	300µl
Column-2	MagPure Beads	12.5µl
Column-3	Wash buffer-1	750µl
Column-4	Wash buffer-2	750µl
Column-5	Wash buffer-2	750µl
Column-6	Elution buffer	110µl

3. Add 200µl of sample into first well and mix well by pipetting.

4. Add 5µl carrier RNA and internal control template, Pipette mix 2 to 3 times while adding.

5. Add 20µl of Proteinase K. Pipette mix 2 to 3 times while adding.

6. Place the plate into HELINI MagPure 32 Automatic purification system deck carefully. Make sure that it fitted properly by pressing in the top.

7. Insert the 8 well combs in to respective magnetic arms.

8. Login using user name and pass word. Select "Program edit". Select the file "HELINI Nucleic acid-A" and press enter.

9. Press Start button. Close the front panel door.

10. This program completes in 15min. Exactly after 15min, the machine will get pause and beep thrice.

11. Press Stop button and open the front door.

12. Carefully, take out the plate and add 250µl Ethanol [96-100% ethanol] to first well. Pipette mix while adding ethanol. Place back the plate into machine.

13. Select the file "HELIN Nucleic acid-B" in the Program list and press Start button.

14. This program will be completed in 25min. Machine will beep after a successful completion. Label & keep ready fresh 1.5ml centrifuge tube for transferring nucleic acid elute.

15. Open the front door. Carefully take out the plate and transfer 100µl of nucleic acid from the 6^{th} well in to labelled 1.5ml centrifuge tubes.

16. Use immediately in qPCR applications or at Store -20°C.

Manufactured and Marketed by

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