
HELINI MagPure Viral RNA Purification Kit

Cat. No: 2502 – 96 Prep

Compatible with: Manual magnetic stand separator & Reputed open
type Automatic DNA/RNA purification system

Introduction

The HELINI MagPure Viral RNA purification Kit is designed for rapid manual and automated purification of Viral RNA from human biological samples including nasal swabs, buccal swabs and urogenital swabs and other clinical samples. The Nucleic acid purified using the HELINI MagPure Nucleic acid purification kit contains high quality RNA 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

For the purification of Viral RNA/total nucleic acid from clinical samples.

Principle and Procedure

The HELINI MagPure Viral RNA purification Kit uses magnetic-particle technology for Nucleic acid 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. 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 per plate	Qty	Storage
Magnetic beads	1.5ml	4°C
Lysis buffer	20ml	RT
Wash Buffer	120ml	RT
Elution Buffer	10ml	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;
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Material required:

For Manual:

1. Micro pipettes – variable all standard ranges and micro tips
2. Magnetic stand separator
3. Micro centrifuge – 1.5/2ml rotors
4. 1.5/2.0 micro centrifuge tubes

For automation:

5. Reputed any make - Open system – Automated DNA/RNA purification system
6. Plastic wares & combs or tips compatible with automated purification system
7. Reagent reservoir - 5 Nos. Label them and use dedicated for that particular reagent only.
8. 8 channel variable micro pipette – range - 30 to 300µl
9. 8 channel variable micro pipette – range - 5 to 50µl
10. 8 channel variable micro pipette – range - 100 to 1000µl [optional]
11. Tips for micro pipettes – all above range.
12. 1.5/2.0 micro centrifuge tubes
13. Plate sealing film [optional]

Procedure - Manual method

1. Transfer 220µl of Lysis buffer into sterile 1.5ml centrifuge tube.
2. If you are using internal control template to monitor extraction efficiency, please pipette mix manufacturer indicated volume of internal control template.
3. Add 10µl of Magnetic beads. [Invert mix or vortex mix well the beads tube before pipetting]
4. Add 200µl of VTM/Test sample. Mix well by pipetting or pulse vortex for 10 seconds.
5. Incubate in room temperature for 10min. [Intermediate brief vortex for two to three times is recommended].
6. Place it on the Magnetic stand separator for 10seconds. Discard the supernatant. [Decant or Pipette it out]
7. Takeout the tube from Magnetic stand separator and add 600µl of Wash buffer and vortex well for 10secs. Centrifuge the tubes for 5secs and incubate at room temperature for 10seconds.
8. Place on the Magnetic stand separator for 10seconds. Discard the supernatant completely. [Decant or pipette it out]

9. Takeout from the Magnetic stand and add 600µl of Wash buffer and vortex well for 10secs. Centrifuge the tubes for 5secs and incubate at room temperature for 10seconds.
10. Place on the Magnetic stand separator for 10seconds. Discard the supernatant completely. [Make sure there is no residual liquid in the tube, if any, use a micropipette to remove them]
11. Add 100µl of Elution buffer and vortex well for 10secs. Centrifuge the tubes 5 seconds and incubate at 56°C for 3mins.
12. Place on the Magnetic stand separator for 1min and carefully transfer elute in to fresh 1.5ml centrifuge tube.
13. Use the RNA immediately for qPCR/PCR or store at -20C/-80C for later use.

Recommendation:

Use 10µl for qPCR /PCR assay

Procedure

For Automation

1. Please refer the machine manufacturer recommended plastic wears and tips/combs for filling the reagents.
2. Use the following reagents volume, steps timings, mixing speed and heating steps;

Buffers	Volume Per well	Mixing Time	Heating Temp	Mixing Speed	Magnetic Beads pickup Time	Magnetic Beads Pickup speed
Lysis buffer	220µl	5min	65°C	Moderate	10secs	Moderate
Wash buffer	600µl	2min	---	Moderate	10secs	Moderate
Wash buffer	600µl	1min	----	Moderate	10secs	Moderate
Elution buffer	100µl	3min	60°C	Moderate	10secs	Moderate

Manufactured and Marketed by

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