Virus DNA/RNA Kit (Magnetic Beads)

[Packaging]

96preps per box

[Work Station]

Purifier HT

[Intended Use]

The Virus DNA/RNA Kit (Magnetic Beads) is designed for rapid purification of high quality nucleic acid (RNA and DNA) from virus in samples such as swabs, saliva, blood, Bodily Fluid, Plasma/Serum, urine, and viral transport media (VTM).

[Principle]

The Virus DNA/RNA Kits (Magnetic Beads) are automation-ready plates prefilled suitably configured for GENFINE Purifier HT purification systems. Nucleic acids (DNA/RNA) from a complex with magnetic beads in a specially formulated buffer. The beads / nucleic acids complex is then separated from lysates using a magnet. Purified DNA/RNA are then eluted when the buffer condition is adjusted. Special magnetic beads technology enables purification of high-quality nucleic acids that are free of proteins, nucleases, and other impurities.

[Kit Contents]

Table1. Kit Contents

Contents		Units
Plate 1	Buffer MVN	500μL/well
Plate 2	Buffer DW1P	500μL/well
Plate 3	Buffer MWP	600μL/well
	FineMag Particles G	10μL/well
Plate 4	RNase-Free ddH_2O	100μL/well
96 Tip Comb		1

[Storage]

All Reagents can be stored at room temperature (15–25°C) for 12 months.

[Protocol]

1. Take out prefilled 96-well plates from the box, gently upside down to mix the beads. Flick downward or gently tap each plate before removing the seal.
2. Add 200μl of sample to each well of Plate1 (MVN).
   Note: The sample needs to be equilibrated to room temperature.
3. Put the 96 Tip Comb into the Plate2 (DW1P), slot into deck position 2 on the Purifier HT.
4. Immediately load the remaining plates onto the instrument as prompted.
5. Select the program "GF_FM502T5_P96" and start the run.
6. At the end of the run, immediately remove the Plate4 (ddH_2O) from the instrument, then transfer the solution to the final tubes/plate and store.
   Note: The purified nucleic acid is ready for immediate use. Alternatively, store the plate at –20°C for long term storage.

Table2. Nucleic acid purification procedure

Step	Posi-tion	Name	Agitation			Volume（ul）	Heat		Magnetization	Out of tube
			Amplitude	Frequency	Time（s）		Temperature	Time (s）	Time（s）	Time（s）
1	2	load								
2	3	binding	low	fastest	30	600			20sec，Loop 2	
3	1	binding	low	fastest	360	700	45-mix	360	30sec，Loop 2	
4	2	washing	low	fastest	100	500			20sec，Loop 2	
5	3	washing	low	fastest	60	600			20sec，Loop 2	120
6	4	elution	low	middle	240	100	70-mix	240	15sec，Loop 3	
7	2	unload								

[Precautions]

1. Always wear a suitable lab coat, disposable gloves, and protective goggles.
2. Precipitates and high viscosity can occur if plates or solutions are stored in a refrigerator or when the room temperature is too cold. If there are precipitates in these solutions, warm them at 37°C and gently mix to dissolve precipitates. Avoid creating bubbles.
3. Yellowing of the Lysis/Binding and Washing Solution is normal and will not impact buffer performance.

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