

Magbead Viral DNA/RNA Kit Instructions for Use

Cat. No.

Reference	Specification	Compatible Equipment
CWX104S-M	96 tests/box	Maelstron 9600 (TANbead)

Storage Condition

The manufacturing and expiry dates are printed on the label. Store at room temperature 15°C to 35°C, including the proteinase K reagent included in the kit.

Basic Information



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Components of the Kit

Name	96 tests/box	Main contents
Sample Plate	1 plate (96 wells)	Guanidine Hydrochloride, NaCl, SDS, Tris-HCl, Isopropanol
Washing Plate 1	1 plate (96 wells)	Guanidine Hydrochloride, NaCl, Tris-HCl, Absolute Ethanol
Washing Plate 2	1 plate (96 wells)	NaCl, Tris-HCl, Absolute ethanol, Magbeads
Elution Plate	1 plate (96 wells)	Water without RNAse
Disposable plastic TIP for magnetic rods	1 box (96 rods)	Tips 96
Support for Tip 96	1 plate (96 wells)	
Proteinase K	3 vials with 1,25 mL	Proteinase K

Intended Use

The kit is designed for the isolation, enrichment and purification of DNA/RNA nucleic acids by silicon dioxide-coated magnetic beads in a wide range of clinical and etiological samples. The processed products can be used for in vitro clinical diagnostics.

Introduction

The Magbead DNA/RNA Kit provides a simple, fast and efficient method for extracting DNA/RNA. The unique buffer system allows the nucleic acid in the lysate to be efficiently and specifically bound to the magbeads. The nucleic acid obtained has high purity, stable quality and is free of proteins, nuclease and other contaminants and inhibitors. It can be applied to various conventional operations, including PCR, real-time PCR, RT-PCR, qPCR, and other experiments.

Samples

- Whole Blood, Serum, Plasma;
- Oropharyngeal and Nasopharyngeal Swab; Bronchoalveolar Lavage/Aspirate, Saliva, Sputum;
- Liquid cytology;
- Urethral, vaginal, cervical and rectal swabs;
- Urine;
- Cerebrospinal fluid (CSF), Body punctures and other cell-free body fluids;
- Bacterial, Viral, Fungal, Parasitic and Spore Samples and Cultures;
- Viral, Bacterial and Parasitic Transport Media and Suspension in PBS;
- Stool;

Nucleic acid extraction programs and protocols

DNA/RNA can be extracted from 1-96 samples all at once, after combining the product with a 96-channel automatic nucleic acid extractor, with an estimated extraction time of up to 30 minutes.

1. Maelstrom 9600 – equipment programming

Table 1

Position	Temperature 1	Temperature 2	Temperature 3	4	5	Temperature 6	7	8
Volume (µL)	700	500	500			100		
Constant temperature	0	0	0	0	0	56		
Action	For.	For.	For.			For.		
Name	SP	WB1	WB2			EB		TIP

Step No.	Position	Temperature	Mixing time (min)	Veloc. (rpm)	Magnetic time (sec)	Drying time (min)	Pause
1	3	0	0	0	60	0	Off
2	1	0	10	3000	90	0	Off
3	2	0	2	3000	60	0	Off
4	3	0	2	3000	60	2	Off
5	6	56	5	3000	60	0	Off
6	2	0	0.1	3000	0	0	Off

Note: Elution protocol for a minimum value of 50 µL and a maximum value of 100 µL.

1.1 Turn on the extraction equipment, decontaminate with UV light and 70% alcohol;

1.2 Remove from kit packaging:

- 1x Sample Plate
- 1x Washing Plate 1
- 1x Washing Plate 2
- 1x Elution Plate
- 1x Box of 96 disposable plastic tips for magnetic rods

- 1.3 Without removing the sealant, quickly centrifuge the plates so that the entire volume of reagents is concentrated at the bottom of the wells;
- 1.4 Carefully remove the sealant from the Sample Plate;
- 1.5 Add 200–500 µL of sample (let the samples equilibrate at room temperature) and 30 µL of Proteinase K to the wells of the Sample Plate preloaded with reagents; Change the tip with each pipetted sample;
- 1.6 Store the Sample Plate in a safe place until it is loaded into the device;
- 1.7 Carefully remove the sealant from Wash Plate 1, Wash Plate 2 and Elution Plate. For Detachable Tip Boxes, remove the protective cap.
- 1.8 Open the door of the Maelstrom 9600 device;
- 1.9 Insert Sample Plate in Position 1, Wash Plate 1 in Position 2, Wash Plate 2 in Position 3 and Elution Plate in Position 6;
- 1.10 In position 8, insert the 96 Disposable Tips Box containing the 96 disposable plastic tips for magnetic rods inserted;
- 1.11 Before starting the extraction protocol, check that the distribution of the plates is correct;
- 1.12 Start the extraction protocol;
- 1.13 At the end of the extraction protocol by the program, carefully remove the Elution Plate (position 6) from the automatic extractor;
- 1.14 In an aseptic cabinet, using a micropipette, transfer all the contents of the eluate containing the purified nucleic acids to new microtubes or a new plate;
- 1.15 Extracted samples are ready for immediate use and/or storage -20°C;
- 1.16 Remove all other plates from the equipment and dispose of them in an appropriate place. Reuse is not possible if you do not use the 96 wells;
- 1.17 Decontaminate the equipment with UV light and 70% ethanol;

Warnings and Precautions

1. For *in vitro* diagnostic use only (IVD).
2. Este produto destina-se apenas a uso profissional
3. Check the packaging before use. If it is damaged, it is strictly forbidden to use it.
4. Do not drink, touch or remove the reagent from the bottle.
5. Do not reuse.
6. Any serious incident involving the product must be reported to the manufacturer and the competent authority.
7. This kit is intended for use with verified equipment, such as the applicable equipment mentioned in the instructions for use. If you want to use it with other equipment, you will need to have it checked.



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| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |

Glossary of Symbols

Symbol	Meaning	Symbol	Meaning
	<i>in vitro</i> diagnostic medical device		Temperature limit
	Manufacturer		Use-by date
	Date of Manufacture		Do not re-use
	Batch code		Consult instructions for use
	Authorized representative in the European Community / European Union		CE Symbol
	Caution		Unique device identifier
	Catalogue number		Do not use if package is damaged and consult instructions for use