

MagBeads FastDNA Kit for Soil

(Ready-to-Use for MagFlex-96™) Cat. No.: 119607096 (96 PREPS)



Quick-Start Protocol

Revision March 27, 2026

Automated Extraction using **MagFlex-96™ aNAP System**

Notes before starting:

- Expect precipitation in Lysis Buffer S1, warm the solution to 55 °C will dissolve the precipitate.
- Vortex the sample in a Lysing Matrix E tube at the maximum speed for 10 mins if a FastPrep® Instrument is unavailable. Secure samples on the vortex through an adapter to ensure homogenization.
- Centrifugation speed stated in the protocol will be a guideline, use the maximum speed available if 14,000 x g is not feasible.



Scan QR code for more information from instruction manual

Sample preparation

1. Transfer **100-500 mg** soil sample into **Lysing Matrix E** tube and add **800 µL Lysis Buffer S1** and **10 µL RNase A**.

Note: Ensure there is 1/3-1/4 empty space in the tube after adding the sample.

2. Homogenize sample using FastPrep® Instrument for 20 to 40 seconds at a speed setting of 6.0 m/s.
3. Centrifuge at 14,000 x g for 5 mins to pellet debris.
4. Transfer the supernatant to a clean 1.5 mL microcentrifuge tube (not provided). Add **100 µL Inhibitor Removal MS** and mix by inverting the tube 20 times.
5. Centrifuge at 14,000 x g for 5 mins to pellet precipitate.
6. Peel off sealing film of **MagFlex Plate MS** and transfer **500 µL** supernatant carefully to well #1 or #7 of 96-well plate.
7. Insert the **MagFlex Mixing Sleeves** to well #2 or #8 of 96-well plate. Place the plate in MagFlex-96™.

Extraction

1. Set a program on the instrument with the following settings:

Step	Well	Process	Volume (µL)	Times (min)			Mixing Speed (rpm)	Temp (°C)
				Mix	Collect	Wait		
1	2	Load Beads	800	0.5	1	0	3000	RT
2	1	Bind	800	10	2.5	0	3000	RT
3	3	Wash 1	800	3	2	0	3000	RT
4	4	Wash 2	800	3	2.5	5	3000	RT
5	5	Elute	100	5	2.5	0	3000	55
6	2	Abandon Beads	800	0.5	0	0	3000	RT

2. Transfer eluted DNA from well #5 or #11 into a clean 1.5 mL microcentrifuge tube (not provided). DNA is now ready for PCR and other downstream applications. Store at -20°C for extended periods.



MP Biomedicals nucleic acid extraction kits are designed for simple, efficient, and rapid purification of DNA and RNA from various types of samples. Our wide range of instruments and reagent kits provide you a one-stop solution for your sample preparation works.



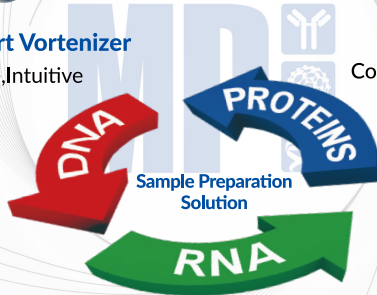
FastPrep® and Smart Vortenzor

Powerful, Flexible, Intuitive



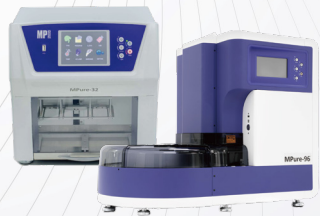
Lysing Matrix

Complete, Quantitative lysing method



MagBeads FastDNA / FastRNA Kits & SPINeasy™ Extraction Kits

Highly purified DNA / RNA / Protein



Automated Nucleic Acid Purification (aNAP) Instruments

MPure-96™ Process up to 96 samples

MPure-32™ Process up to 32 samples

