MagBeads FastDNA® Kit for Feces

Ready-to-Use for MPure-32™ aNAP System

Cat. No.: 117033200 (96 Preps)

Revision 1.0 June 2022

Quick-Start Manual

Notes before starting

- ❑ Expect precipitation in Pre-Wash Buffer and Lysis Buffer F1, warm the solutions 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 manual will be a guideline, use the maximum speed available if 14,000 x g is not feasible.

Automation Extraction

Lysis

1. Add 30-300 mg fecal sample to **Lysing Matrix E** tube and resuspend it with 1000 µL of **Pre-Wash Buffer**. Vortex for 10-15 seconds.
Note: Ensure there is at least 200 µL of empty space in the tube after adding the sample.

2. Centrifuge samples at 14,000 rpm for 3-5 mins and remove supernatant.

3. Add 490 µL **Lysis Buffer F1,** 60 µL **Lysis Buffer F2** and 10 µL **RNase A Solution** to sample in Lysing Matrix E tube. Shake the tube to mix well.

4. Homogenize sample in FastPrep® Instrument for 40 seconds at a speed of 5.0 m/s.
Note: The speed and time can be changed according to different fecal samples. Vortex 5-10 mins at maximum speed if FastPrep® Instrument is not available.

Purify

5.Centrifuge for 5 mins at 14,000 x g to pellet down the debris at the bottom of tube.

6. Transfer 500 µL supernatant to a clean 2.0 mL microcentrifuge tube and add **100 µL PPS** . Mix by inverting the tube 20 times.
Note: Do not vortex the tube at this step

7. Centrifuge at 14,000 x g for 5 mins to collect pellet at the bottom of tube.

Bind, Wash, Eluate

8. Transfer 400 µL supernatant carefully to well #2 or #8 of the pre-filled reagent plate.

9. Run the program (**Magbead_Feces**) on MPure-32™ aNAP System. Alternatively, set a program on the instrument with the following settings:

Step	Well	Process	Time (s)			Mixing Speed	Temp (˚C)
			Mix	Wait	Attract		
1	#1/#7	Magnetic Beads Preparation	60	0	120	Medium	RT
2	#2/#8	Bind	600	0	150	Medium	RT
3	#3/#9	Wash 1	180	0	120	Medium	RT
4	#4/#10	Wash 2	180	0	120	Medium	RT
5	#5/#11	Repeat Wash 2	180	0	150	Medium	RT
6	#5/#11	Dry	0	600	0	-	RT
7	#6/#12	Elute	300	0	150	Medium	55

10.Transfer eluted DNA into a clean 1.5 mL microcentrifuge tube. DNA is now ready for PCR and other downstream applications. Store the purified nucleic acid at -20˚C for extended periods.
Note: If magnetic beads are observed in eluted DNA, centrifuge the eluent at 14,000 x g for 3-5 mins and transfer the clear supernatant to a clean 1.5 mL tube.

Ordering Information

Equipment

Automation extraction system from low to high throughput

Catalog No.	Product Name	Throughput
07EMC043	MPure-32™ aNAP System	Up to 32 samples
07EMC044	MPure-96™ aNAP System	Up to 96 samples

Instruments for lysing and homogenizing soil samples

Catalog No.	Product Name
116004500	FastPrep™ Classic
116005500	FastPrep-24™ 5G
116010500	FastPrep-96™
116012500	SuperFastPrep-2™

Reagents

Wide range of reagent kits for extracting and purifying various types of biological samples for downstream applications.

Catalog No.	Product Name	Pack Size
117033100	(MPure-32) MagBeads FastDNA® Kit for Soil (Ready-to-Use)	96 preps
117033200	(MPure-32) MagBeads FastDNA® Kit for Feces (Ready-to-Use)	96 preps
117033300	(MPure-32) MagBeads FastDNA/RNA Kit for Virus (Ready-to-Use)	96 preps
117033400	(MPure-32) MagBeads FastRNA Kit (Ready-to-Use)	96 preps
117033500	(MPure-32) MagBeads FastRNA Kit for FFPE (Ready-to-Use)	96 preps
117033600	(MPure-32) MagBeads FastDNA® Kit (Ready-to-Use)	96 preps
117033700	(MPure-32) MagBeads FastDNA Kit for Blood (Ready-to-Use)	96 preps
117033800	(MPure-32) MagBeads FastDNA Kit for FFPE (Ready-to-Use)	96 preps
117033900	(MPure-32) MagBeads Fast Circulating DNA Kit (Ready-to-Use)	96 preps

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