

MagBeads FastRNA[®] Kit for FFPE

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

Cat. No.: 117033500 (96 Preps)



Quick-Start Manual

Revision 2.0 Dec 2022

Notes before starting

- Add 2.4 mL Protease Dissolve Buffer into Proteinase K bottle, and store at -20°C after it dissolves.
- Dilute Buffer MCB with isopropanol and store at room temperature.

Automation Extraction

1. Using a scalpel, trim off the excess paraffin on the sample block. Cut up to 8 sections (5~20 μm) and immediately transfer samples into a 2 mL microcentrifuge tube or a 2 mL 96-well sample plate (not provided).

Note: Discard the first 2 to 3 sections of sample if it has been exposed to air.

2. Add 600 μL Buffer DPS into the sample tube. Vortex the tube for 5 seconds and briefly centrifuge to bring down the sample.

3. Incubate at 56°C for 3 to 5 mins and vortex for 5 seconds to dissolve the paraffin.

Note: The Buffer DPS may turn opaque or cloudy. If this occurs, add additional Buffer DPS and repeat Step 2.

4. Centrifuge at 14,000 x g for 2 minutes and carefully discard the supernatant without disturbing the pellet.

5. Add 150 μL Buffer FRL and 20 μL Proteinase K into the sample and vortex. Incubate at 55°C for 15 mins. then incubate at 80°C for 15 minutes. Briefly centrifuge the sample and proceed to extraction step.

Note: Incubation at 80°C can reverse the nucleic acids modified by formaldehyde. Prolonged incubation time will cause degradation of RNA.

6. Transfer 150 μL of sample to well #1 or #7 of the pre-filled reagent.

7. Add 10 μL of DNase I into well #3 or #9.

8. Place the reagent plate on MPure-32[™] aNAP System and run the assay with the program named "FFPE_RNA" which has the following setting:

Step	Well	Process	Time (s)			Mixing Speed	Temp (°C)
			Mix	Wait	Attract		
1	#1/#7	Bind	60	300	120	Medium	RT
2	#2/#8	Wash 1	90	0	60	Medium	RT
3	#3/#9	DNase	60	0	60	Medium	RT
4	#4/#10	Wash 2	60	0	60	Medium	RT
5	#5/#11	Wash 3	60	0	60	Medium	RT
6	#5/#11	Dry	0	300	0	Medium	RT
7	#6/#12	Elute	300	0	120	Medium	RT
8	#1/#7	Magbeads Release	60	0	0	Medium	RT

9. Transfer the clear purified RNA to a clean 96-well microplate (not provided). The eluent is now ready for downstream applications. Store the purified RNA at -80°C for an extended storage.

Note: If there are still Magnetic Beads remaining in eluent, please centrifuge at 14,000 x g for 3-5 mins and transfer the supernatant to a clean 96-well microplate or 1.5 mL microcentrifuge tubes.

Sample Preparation

Extraction

Ordering Information

Equipment

Automated 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 environmental and biological 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 environmental and 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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