MagBeads FastRNA Kit

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



Cat. No.: 117033400 (96 PREPS)

Quick-Start Manual

Revision 3.0 Dec 2023

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 (ratio of Buffer MCB:Isopropanol = 3:7) and store at room temperature.
- (Optional) 2-mercaptoethanol can be added into an aliquot of RTL Lysis Buffer before use. Add 20 μL 2-mercaptoethanol per 1 mL RTL Lysis Buffer. This mixture can be stored at room temperature for 2 weeks.

Automation Extraction

Sample Type	Recommendations				
Cell	Harvest cells (no more than 1×10^7 cells). For pelleted cells, loosen the cell p thoroughly by flicking the tube and add the appropriate volume of 500 μ L Buffer RTL direct lysis of cells grown in a monolayer, add 500 μ L Buffer RLT onto the cell-cul dish. Pass the lysate at least 5 times through a blunt 20-gauge needle fitted to an RN Free Syringe.				
Animal Tissu	Do not use more than 20 mg of animal tissue. Disrupt and homogenize the sample, the add $600~\mu$ L Buffer RTL. After lysis, centrifuge the lysate at $14,000~x$ g for 3 min at roo temperature.				
Plant Tissue	Disrupt the plant sample using liquid nitrogen. Transfer up to 50 mg of powder to 1.5 mL microcentrifuge tube and add 600 μ L Buffer RTL. Vortex and centrifuge at 14,000 x g for 3 mins at room temperature.				
Yeast Cell	Collect 5 x 10^6 yeast cells, then add 300 mg 0.4-0.6 g Glass Beads and 600 μ l RTL Lysis Buffer. Vortex at maximum speed for 10 mins. Centrifuge at 10,000 x g for 3 mins at room temperature.				
Bacterial Cell	Collect 1 x 10^8 bacterial cells, then add 300 mg 0.1-0.26 g Glass Beads and 600 μ L RTL Lysis Buffer. Vortex at maximum speed for 10 mins. Centrifuge at 10,000 x g for 3 mins at room temperature.				

- 1. Transfer 500 μL of lysate and 20 μL of Proteinase K carefully to well #1 or #7 of the pre-filled reagent
- Add 10 μL of DNase I into well #3 or #9.
- Place the reagent plate on MPure-32™ aNAP System and run the assay with the program named "FastRNA" which has the following setting:

	C4	Well	Process	Time (s)			Mixing Speed	T (°C)
	Step			Mix	Wait	Attract	wiixing Speed	Temp (°C)
	1	#1/#7	Mix	60	0	60	Medium	RT
	2	#2/#8	Magbeads Preparation	0	600	90	Low	RT
	3	#1/#7	Bind	90	0	60	Medium	RT
	4	#3/#9	DNase I Digestion*	60	900	60	Very Low	RT
1	5	#3/#9	Addition of Buffer MCB	60	300	60	Medium	RT
	6	#4/#10	Wash 1	90	0	60	Medium	RT
	7	#5/#11	Wash 2	90	0	60	Medium	RT
	8	#5/#11	Dry	0	300	0	Medium	RT
	9	#6/#12	Elute	300	0	120	Medium	RT
	10	#1/#7	Magbeads Release	60	0	0	Medium	RT

*Note: The program will pause (buzzer will sound) after the DNase I digestion step in well #3 and/or #9. At this step, press the buzzer button to stop the buzz, then add 450 μ L of Buffer MCB into well #3 and/or #9. Press the pause button to continue the program to the end.

 Transfer clear purified RNA to a clean 96-well microplate (not provided). The eluent is now ready for downstream applications. Store 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 into a clean 1.5 mL microcentrifuge tube.

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 TM 5G	
116010500	FastPrep-96 TM	
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 TM) MagBeads FastDNA Kit for Soil (Ready-to-Use)	96 preps
117033200	(MPure-32 TM) 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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