MagBeads FastDNA® Kit for FFPE

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

Cat. No.: 117033800 (96 PREPS)

Quick-Start Manual

Revision 3.0 Dec 2023

Notes before starting:

- Add 2.4 mL Protease Dissolve Buffer into the Proteinase K, and store at -20 - 8°C after it dissolves.

Automation Extraction

Sample Preparation

1. Using a scalpel, trim off the excess paraffin on the sample block. Transfer 1 to 5 sections (10 - 20 µm) of sample into a 1.5 mL microcentrifuge tube.
2. Add 600 µL Buffer DPS into the sample. Vortex for 5 seconds and briefly centrifuge to bring the sample to the bottom of tube.
3. Incubate at 56°C for 5 mins and vortex vigorously for 15s to dissolve the paraffin completely.

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

4. Centrifuge at full speed for 1 min to bring down all FFPE tissues that adhere to the tube wall or underneath the cap. This will create two phases within the solution: an upper dewaxing liquid phase and a lower aqueous phase.

Note: If sample is sufficient, discard the dewaxing liquid to facilitate the operation.

5. Add 200 µL Buffer ATL into the bottom of the tube and add 20 µL Proteinase K into the lower aqueous layer. Mix gently by pipetting up and down.
6. Incubate at 56°C for 60 mins (or until the tissue is completely lysed), followed by 90°C for 60 mins.
7. Briefly centrifuge the tube and transfer the lower aqueous layer into a new microcentrifuge tube and proceed to the extraction step.

Extraction

8. Transfer 200 µL of lysate from step 7 carefully to well #1 or #7 of the pre-filled reagent.
9. Place the reagent plate on MPure-32™ aNAP System and run the assay with the program named "**FFPE_DNA**" which has the following setting:

Step	Well	Process	Time (s)			Mixing Speed	Temp (˚C)
			Mix	Wait	Attract		
1	#1/#7	Magnetic Beads Preparation	60	0	60	Medium	RT
2	#2/#8	Bind	240	0	90	Medium	RT
3	#3/#9	Wash 1	120	0	60	Medium	RT
4	#4/#10	Wash 2	90	0	60	Medium	RT
5	#5/#11	Wash 3	90	0	60	Medium	RT
6	#5/#11	Dry	0	300	0	-	RT
7	#6/#12	Elute	480	0	120	Medium	55
8	#1/#7	Magbeads Release	60	0	0	Medium	RT

10. Transfer the 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 an extended storage.

Note: If there are still Magnetic Beads remaining in the eluted DNA, 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™ 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

MP BIOMEDICALS
APAC: +65 6775 0008 | custserv.ap@mpbio.com
EUROPE: 00800 777 9999 | custserv.eur@mpbio.com
AMERICAS: 800 854 0530 | custserv.na@mpbio.com
Learn more at www.mpbio.com

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