

# MagBeads Fast Circulating DNA Kit

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



Cat. No.: 117033900 (96 PREPS)

### Quick-Start Manual

Revision 3.0 Dec 2023

#### Notes before starting:

- Add 4.5 mL Protease Dissolve Buffer into Proteinase K, and store at -20°C after it dissolves.
- Add 0.15 mL Elution Buffer into the Carrier RNA, and store at -20°C after it dissolves.

### Automation Extraction

1. Peel off the sealing film on the 96-well reagent plate.
2. Add 30-50  $\mu$ L Elution Buffer into well #6 and/or #12.
3. Transfer desired volume of sample and other components according to the following table:

Assay Program	Total Sample Volume ( $\mu$ L)	Well #	Components at Sample Well		
			Sample ( $\mu$ L)	PK ( $\mu$ L)	Carrier RNA (ng)
Cir_DNA_300	300	1,7	300	20	50
Cir_DNA_700	700	1,2 (sample 1); 7,8 (sample 2)	350	20	50
Cir_DNA_1000	1000	1,2,3 (sample 1); 7,8,9 (sample 2)	330	13	50

4. Depending on the sample volume, run the assay with any of the following programs:

#### • Cir\_DNA\_300 (300 $\mu$ L sample)

Step	Well	Process	Mix	Time (s)			Mixing Speed	Temp (°C)
				Wait	Attract			
1	#1/#7	Bind	600	0	120	Low	RT	
2	#2/#8	Wash 1	150	0	60	Medium	RT	
3	#3/#9	Wash 2	60	0	60	Medium	RT	
4	#4/#10	Wash 3	60	0	60	Medium	RT	
5	#4/#10	Dry	0	300	0	-	RT	
6	#5/#11	Elute	300	0	120	Medium	RT	
7	#1/#7	Magbeads Release	60	0	0	Medium	RT	

#### • Cir\_DNA\_700 (700 $\mu$ L sample)

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

#### • Cir\_DNA\_1000 (1000 $\mu$ L sample)

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

5. Transfer the eluted nucleic acid into a clean 1.5 mL microcentrifuge tube. The eluent is now ready for downstream applications. Store the purified nucleic acid at -20°C for an extended storage.

**Note:** If there are still Magnetic Beads remaining in eluted DNA, please centrifuge at 14,000  $\times$  g for 3-5 mins and transfer the supernatant into a clean 1.5 mL microcentrifuge tube.

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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