

MagBeads FastRNA Kit for Virus

(Ready-to-use for MPure-96™ aNAP System)

Cat. No.: 117036100 (96 PREPS)



Quick-Start Protocol

Revision 1.0 Aug 2023

Notes before starting:

- ❑ Prepare Carrier RNA Solution: Dissolve the contents of each vial of Carrier RNA in 350 μ L of RNase-free water. Use immediately and store remaining at -20 °C in aliquots.
- ❑ Prepare Proteinase K Solution: Dissolve the contents of each vial of Proteinase K in 1.2 mL of Proteinase K Buffer. Use immediately and store remaining at -20 °C in aliquots.

Scan for detailed instruction manual



Lysis Mix

Load

Run

Elute

1. Prepare lysis mixture containing 20 μ L **Proteinase K Solution**, 280 μ L **Lysis Buffer VRM (PF)** and 5 μ L **Carrier RNA Solution** per prep, with excess volume.

Example: For 96-prep, prepare a master mix containing 2 mL Proteinase K Solution, 28 mL Lysis Buffer VRM (PF) and 500 μ L Carrier RNA Solution.

2. Add 100 – 200 μ L of sample into each well in **Magnetic Beads VRM** plate.
3. Add 305 μ L of lysis mixture prepared in step 1 into each well in Magnetic Beads VRM plate containing the samples.
4. Run the following program on MPure-96™ aNAP System.

Plate position	1	2	3	4	5	6	7	8
Component	Magnetic Beads VRM	Wash Buffer VRM 1	Wash Buffer VRM 2	Wash Buffer VRM 2	-	Elution Buffer		96 spin tips
Volume (μL)	695	500	500	500	0	100	0	
Preheat	25	25	25			25		
Action	For.U/D	For.U/D	For.U/D	For.U/D	----	For.U/D	----	
Name	LB	WB1	WB2	WB2		EB		TIP
Step	Plate	Temp	Mixing (min)	Spin (rpm)	Collect (sec)	Vapor (min)		
1	1		10.0	3000	150			
2	2		3.0	3000	150			
3	3		3.0	3000	150			
4	4		3.0	3000	150			
5	4		0.0	0	0	10.0		
6	6	55	5.0	3000	300			
7	0		0.0	0	0			

5. At the end of the run, RNA is eluted in **Elution Buffer** plate.
6. Centrifuge the plate at 5,000 g for 5 mins to pellet down residual beads. Alternatively, transfer each eluted RNA from Elution Buffer plate into a clean 1.5 mL microcentrifuge tube and centrifuge at 14,000 g for 2 mins. Use clear supernatant for downstream applications.
7. Keep eluted RNA chilled on ice and proceed immediately to perform downstream applications.
8. Store remaining RNA at -80 °C in aliquots and avoid repeated freeze-thawing.

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Flow Chart



Step 1: Prepare Lysis Mix for total number of preps with excess volume

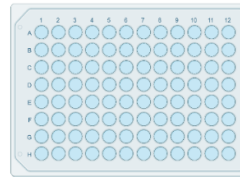
Up to 96 samples
 Note: Each sample will take up the same position in every plate, for example, sample in A1 will go through position A1 in every plate and elute in A1 of Elution Buffer (Plate #6)



	Per prep	96 preps (with excess)
Proteinase K Solution	20 µL	2 mL
Lysis Buffer VRM (PF)	280 µL	28 mL
Carrier RNA Solution	5 µL	500 µL

Step 2: Add Sample and Lysis Mix

Magnetic Beads VRM
(Plate #1)



Per well:
 100 – 200 µL Sample
 305 µL Lysis Mix

Step 3: Load on MPure-96 and run program

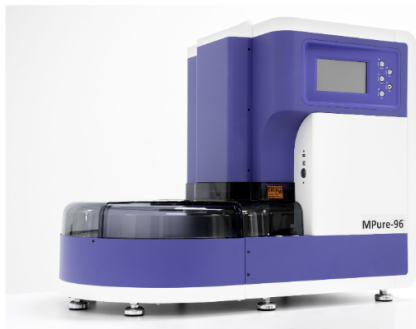
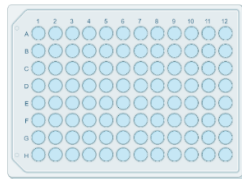


Plate position	1	2	3	4	5	6	7	8
Component	Magnetic Beads VRM	Wash Buffer VRM	Wash Buffer VRM	Wash Buffer VRM	-	Elution Buffer		96 spin tips
Volume (µl)	695	500	500	500	0	100	0	
Preheat	25	25	25			25		
Action	For:U/D	For:U/D	For:U/D	For:U/D	----	For:U/D	----	
Name	LB	WB1	WB2	WB2		EB		TIP

Step	Plate	Temp	Mixing (min)	Spin (rpm)	Collect (sec)	Vapor (min)
1	1		10.0	3000	150	
2	2		3.0	3000	150	
3	3		3.0	3000	150	
4	4		3.0	3000	150	
5	4		0.0	0	0	10.0
6	6	55	5.0	3000	300	
7	0		0.0	0	0	

Step 4: Store Eluted RNA

Elution Buffer (Plate #6)



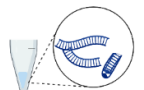
→ **5min 5K g** 
 Pellet residual beads

Or

→ Transfer each elute into a clean 1.5 mL microcentrifuge tube



→ Virus RNA is eluted in clear supernatant



Store RNA at -80°C

→ **2min 14K g** 
 Pellet residual beads



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