MagBeads FastRNA Kit for Virus

(Ready-to-use for MPure-32™ aNAP System)

Cat. No.: 117035100 (96 PPREPS)

Revision 1.0 Aug 2023

Quick-Start Protocol

Scan for detailed instruction manual

Notes before starting:

- ❑ Prepare Carrier RNA Solution: Dissolve the contents of each vial of Carrier RNA in 350 µL 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.

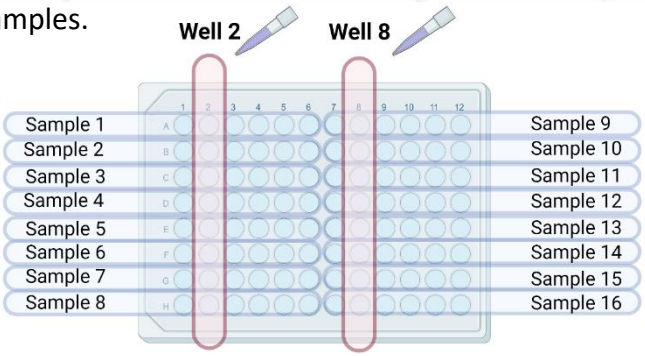
Lysis Mix

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

Example: for a 16-prep, prepare a master mix containing 340 µL Proteinase K Solution, 4.76 mL Lysis Buffer VRM (PF) and 85 µL Carrier RNA Solution.

Load

2. Add 100 – 200 µL of sample into each well in column positions 2 or 8 of a **Reagent Plate VRM**.
3. Add 305 µL of lysis mixture prepared in step 1 into each well in column positions 2 or 8 containing the samples.



Run

4. Run the following program on MPure-32™ aNAP System.

Step	Well	Process	Volume (µL)	Time (s)			Mixing Speed	Temp (°C)
				Mix	Wait	Attract		
1	2	Bind	695	600	0	150	Fast	RT
2	3	Wash 1	500	180	0	120	Fast	RT
3	4	Wash 2	500	180	0	120	Fast	RT
4	5	Wash 3	500	180	0	150	Fast	RT
5	5	Dry	500	0	600	0	-	RT
6	6	Elute	100	300	0	150	Fast	55
7	2	Abandon Beads	695	60	0	0	Medium	RT

Elute

5. After the run is complete, transfer each eluted RNA from Wells 6 or 12 into a clean 1.5 mL microcentrifuge tube.
6. Centrifuge at 14,000 g for 2 mins to pellet down residual beads. Use clear supernatant for downstream applications.
7. Keep eluted RNA chilled on ice and proceed immediately to perform downstream applications. Store remaining RNA at -80˚C in aliquots and avoid repeated freeze-thawing.

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Flow Chart

Lysis Mix

Load Sample

Run

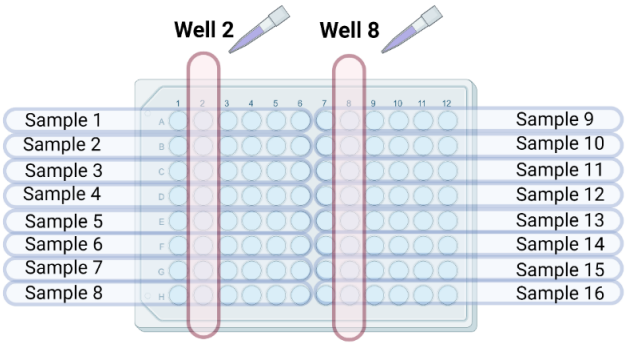
Store Elute

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

Instrument Capacity:
Up to 16 samples per plate,
32 samples per run (2 plates)

	Per prep	16 preps (with excess)	32 preps (with excess)
Proteinase K Solution	20 µL	340 µL	680 µL
Lysis Buffer VRM (PF)	280 µL	4.76 mL	9.52 mL
Carrier RNA Solution	5 µL	85 µL	170 µL

Step 2: Add Sample and Lysis Mix



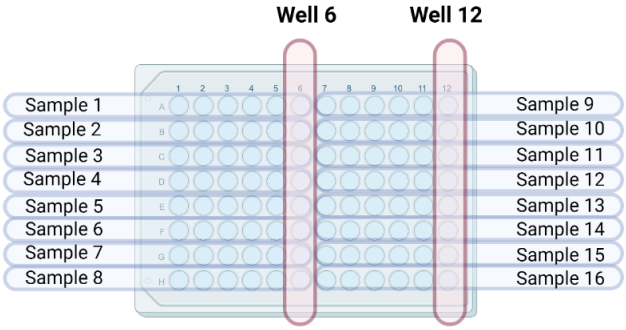
Add to Well 2 or 8:

100 – 200 µL Sample
305 µL Lysis Mix

Step 3: Load on MPure-32 and run program

Step	Well	Process	Time (s)			Mixing Speed	Temp (°C)
			Mix	Wait	Attract		
1	2	Bind	600	0	150	Fast	RT
2	3	Wash 1	180	0	120	Fast	RT
3	4	Wash 2	180	0	120	Fast	RT
4	5	Wash 3	180	0	150	Fast	RT
5	5	Dry	0	600	0	-	RT
6	6	Elute	300	0	150	Fast	55
7	2	Abandon Beads	60	0	0	Medium	RT

Step 4: Transfer each elute from Well 6 or 12 into a clean 1.5 mL microcentrifuge tube



Pellet residual beads

Virus RNA is eluted in clear supernatant

Store RNA at -80°C

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