

NucleoMag® RNA – IsoPure™ Mini

Protocol details

Application	RNA from tissue and cells
Kit	NucleoMag® RNA
REF	744350 (.1 / .4)
Protocol name	NMRNARev04
Run time	approx. 60 min



Eight easy steps

Procedure	
1	Perform lysis according to the user manual NucleoMag® RNA.
2	Fill the 96-well Deep-well plate according to the table below.
3	Load the plate on the IsoPure™ Mini.
4	Insert tip combs on the mounting grooves.
5	Select the protocol from the instrument menu and start protocol NMRNARev04.
6	Remove plate from the instrument when prompted on the IsoPure™ Mini.
7	Dispense 350 µL of Binding Buffer MR2 to the DNA digestion (column 2 + 8).
8	Place the plate back into the IsoPure™ and proceed with the protocol.

Note: Please equip all tip combs in order to cover the magnetic rods in used and unused wells.
The protocol includes a rDNase incubation step that requires a manual intervention (addition of Binding Buffer MR2).

Loading table

Position	Reagents	Samples per plate
Column 1 + 7	Lysate (350 µL), NucleoMag® B-Beads (28 µL), Binding Buffer MR2 (350 µL)	Sample 1-8 Sample 9-16
Column 2 + 8	rDNase reaction mixture (300 µL) (add 350 µL Binding Buffer MR2)	Sample 1-8 Sample 9-16
Column 3 + 9	Wash Buffer MR3 (600 µL)	Sample 1-8 Sample 9-16
Column 4 + 10	Wash Buffer MR4 (900 µL)	Sample 1-8 Sample 9-16
Column 5 + 11	Wash Buffer MR4 (900 µL)	Sample 1-8 Sample 9-16
Column 6 + 12	RNase-free H ₂ O (100 µL)	Sample 1-8 Sample 9-16

Note: Please refer to the image below for a visual representation of the loading scheme

Loading scheme

	1	2	3	4	5	6	7	8	9	10	11	12	
A	Binding (728 µL)	DNA digest (300 µL + 350 µL)	1 st Wash (600 µL)	2 nd Wash (900 µL)	3 rd Wash (900 µL)	Elution buffer (100 µL)	Binding (728 µL)	DNA digest (300 µL + 350 µL)	1 st Wash (600 µL)	2 nd Wash (900 µL)	3 rd Wash (900 µL)	Elution buffer (100 µL)	
B													
C													
D													
E													
F													
G													
H													

Additional consumables and instrumentation

Product	Specification	REF
IsoPure™ Mini	Automated nucleic extraction system for MACHEREY-NAGEL's NucleoMag® kits enabling parallel processing of up to 16 samples	747000
Android™ tablet	Android™ tablet with IsoPure™ Mini App for simple protocol design and transfer	747001
96 Deep-well plates	96 deep-well plates for IsoPure™ Mini (25 pieces)	744955
Tip combs	8-well tip combs for IsoPure™ Mini (50 pieces)	744960

Instant protocol transfer via QR-code

Procedure	
1	Connect the scanning device (included) to the instrument
2	Activate the instrument scanning software
3	Scan the QR-code for instant protocol transfer
4	Confirm protocol transfer on the instrument



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