

# NucleoMag® RNA Pro – MagnetaPure 32+

## Protocol details

| Application   | Highly pure RNA from tissue and plant leaf material |
|---------------|-----------------------------------------------------|
| Kit           | NucleoMag® RNA Pro                                  |
| REF           | 744360 (.1 / .4)                                    |
| Protocol name | NMRNAProR1                                          |



## Eight easy steps

| Procedure |                                                                                                    |
|-----------|----------------------------------------------------------------------------------------------------|
| 1         | Perform lysis according to the user manual NucleoMag® RNA Pro.                                     |
| 2         | Fill the 96-well Deep-well plates according to the table below.                                    |
| 3         | Load the plates on the MagnetaPure 32+.                                                            |
| 4         | Insert tip combs on the mounting grooves. *                                                        |
| 5         | Select the protocol from the instrument menu and start protocol NMRNAProR1.                        |
| 6         | Remove plate from the instrument when prompted on the MagnetaPure 32+.                             |
| 7         | Dispense 350 µL of Binding Buffer MRB to the DNA digestion (column 4 + 10).                        |
| 8         | Place the plate back into the MagnetaPure 32+ slide in the tip combs 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 MRB).

## Loading table

| Position      | Reagents                                                                       | Samples per plate         |
|---------------|--------------------------------------------------------------------------------|---------------------------|
| Column 1 + 7  | Cleared Lysate (350 µL), Binding Reagent (250 µL)*, NucleoMag® B-Beads (20 µL) | Sample 1-8<br>Sample 9-16 |
| Column 2 + 8  | Wash Buffer MRW (900 µL)                                                       | Sample 1-8<br>Sample 9-16 |
| Column 3 + 9  | Ethanol 70% (900 µL)                                                           | Sample 1-8<br>Sample 9-16 |
| Column 4 + 10 | rDNase reaction mixture (300 µL)                                               | Sample 1-8<br>Sample 9-16 |
| Column 5 + 11 | Ethanol 70% (900 µL)                                                           | Sample 1-8<br>Sample 9-16 |
| Column 6 + 12 | Elution Buffer MRE (100 µL)                                                    | Sample 1-8<br>Sample 9-16 |

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

\* Use binding reagent for different sample types according to the user manual NucleoMag® RNA Pro.



## Loading scheme

|   | 1                | 2                             | 3                             | 4                            | 5                             | 6                | 7                | 8                             | 9                             | 10                           | 11                            | 12               |  |
|---|------------------|-------------------------------|-------------------------------|------------------------------|-------------------------------|------------------|------------------|-------------------------------|-------------------------------|------------------------------|-------------------------------|------------------|--|
| A |                  |                               |                               |                              |                               |                  |                  |                               |                               |                              |                               |                  |  |
| B |                  |                               |                               |                              |                               |                  |                  |                               |                               |                              |                               |                  |  |
| C |                  |                               |                               |                              |                               |                  |                  |                               |                               |                              |                               |                  |  |
| D |                  |                               |                               |                              |                               |                  |                  |                               |                               |                              |                               |                  |  |
| E |                  |                               |                               |                              |                               |                  |                  |                               |                               |                              |                               |                  |  |
| F |                  |                               |                               |                              |                               |                  |                  |                               |                               |                              |                               |                  |  |
| G |                  |                               |                               |                              |                               |                  |                  |                               |                               |                              |                               |                  |  |
| H |                  |                               |                               |                              |                               |                  |                  |                               |                               |                              |                               |                  |  |
|   | Binding (620 µL) | 1 <sup>st</sup> Wash (900 µL) | 2 <sup>nd</sup> Wash (900 µL) | DNA digest (300 µL + 350 µL) | 3 <sup>rd</sup> Wash (900 µL) | Elution (100 µL) | Binding (620 µL) | 1 <sup>st</sup> Wash (900 µL) | 2 <sup>nd</sup> Wash (900 µL) | DNA digest (300 µL + 350 µL) | 3 <sup>rd</sup> Wash (900 µL) | Elution (100 µL) |  |

## Additional consumables and instrumentation

| Product            | Specification                                                                                                             | REF    |
|--------------------|---------------------------------------------------------------------------------------------------------------------------|--------|
| MagnetaPure 32+    | Automated nucleic extraction system for MACHEREY-NAGEL's NucleoMag® kits enabling parallel processing of up to 32 samples | 747010 |
| 96 Deep-well Plate | 96 deep-well plates for MagnetaPure 32+ (25 pieces)                                                                       | 744955 |
| Tip Combs          | 8-well tip combs for MagnetaPure 32+ (50 pieces)                                                                          | 744960 |

## Disclaimer

### Information

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