RNA

# User manuals

**NucleoSpin® 8 RNA Blood** **740220 / .5**

Dear valued customer,

Thank you for choosing MACHEREY-NAGEL for your application. We have attached a short protocol for your review.

To obtain the best results we recommend to follow the detailed protocol available online, especially when you are a first time user of this kit.

All important links to the above mentioned product are listed in this leaflet.

Important information regarding product components, specifications, safety instructions, and processing protocols, can all be found on the product website and accessed easily via the QR code.

## QR-Code product website

*qr.mn-net.com/qr/(241)740220*

Use the following QR code or the link below for direct access to the user manual.

## QR-Code user manual

*qr.mn-net.com/qr/(IFU)740220*

It is strongly recommended to read the detailed protocol section of the user manual if using the kit for the first time. However, experienced users may refer to the protocol at a glance. The protocol at a glance is designed to be used only as a supplemental tool for quick reference while performing the purification procedure.

We are constantly improving our products and we reserve the right to make changes or additions to protocols. Please check for updated revisions for previously downloaded manuals.

This is a short protocol and does not replace the full manual!

## Protocol at a glance
## NucleoSpin® 8 RNA Blood – vacuum processing

| | |
|---|---|
| **1 Lyse blood** | 400 µL blood<br>400 µL DL<br>10 µL Liquid Proteinase K<br>RT, 15 min<br>(shake 1,000 – 1,200 rpm) |
| **2 Adjust binding conditions** | 400 µL RB4<br>Pipette up and down<br>10 – 15 times to mix |
| **3 Transfer lysates to NucleoSpin® RNA Blood Binding Strips** | |
| **4 Bind RNA to silica membrane of the NucleoSpin® RNA Blood Binding Strips** | -0.2 bar*, 1 min |
| **5 Desalt silica membrane** | 500 µL RB3<br>-0.2 bar*, 3 min |
| **6 Incubate with rDNase** | 95 µL rDNase reaction mixture<br>RT, 15 min |
| **7 Wash and dry silica membrane** | 500 µL RB2<br>-0.2 bar*, 1 min<br>800 µL RB3<br>-0.2 bar*, 1 min<br>500 µL RB4<br>-0.2 bar*, 1 min<br>Remove MN Wash Plate<br>Dry silica membrane<br>(Maximum vacuum, 10 min) |
| **8 Elute RNA** | 75 – 130 µL RNase-free $H_2O$<br>RT, 2 min<br>-0.6 bar*, 1 min |

** Reduction of atmospheric pressure*

## Protocol at a glance

## NucleoSpin® 8 RNA Blood – centrifuge processing

Please check the user manual if your centrifuge and setup meets the requirements for centrifuge processing of 8-well strips.

| | |
|---|---|
| **1 Lyse blood** | 400 µL blood<br>400 µL DL<br>10 µL Liquid Proteinase K<br>RT, 15 min<br>(shake 1,000 – 1,200 rpm) |
| **2 Adjust binding conditions** | 400 µL RB4<br>Pipette up and down<br>10 – 15 times to mix |
| **3 Transfer lysates to NucleoSpin® RNA Blood Binding Strips** | |
| **4 Bind RNA to silica membrane of the NucleoSpin® RNA Blood Binding Strips** | 5,600 – 6,000 x *g*,<br>2 min |
| **5 Desalt silica membrane** | 500 µL RB3<br>5,600 – 6,000 x *g*,<br>2 min |
| **6 Incubate with rDNase** | 95 µL rDNase reaction mixture<br>RT, 15 min |
| **7 Wash and dry silica membrane** | 500 µL RB2<br>5,600 – 6,000 x *g*,<br>2 min<br>800 µL RB3<br>5,600 – 6,000 x *g*,<br>2 min<br>500 µL RB4<br>5,600 – 6,000 x *g*,<br>10 min |
| **8 Elute RNA** | 50 – 130 µL RNase-free $H_2O$<br>RT, 2 min<br>5,600 – 6,000 x *g*,<br>3 min |

### QR-Code Safety Data Sheet

Please find a digital version of the safety data sheets by following the link below:

*www.mn-net.com/sds*

We strongly recommend to carefully read the detailed protocol section of the product's user manual. If you have any questions about the protocol or product, please contact our Technical Support.

## Contact MN


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