

## User manuals

**NucleoSpin® 96 RNA Blood****740225 / .2 / .4**

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/\(241\)740225](https://qr.mn-net.com/qr/(241)740225)

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/\(IFU\)740225](https://qr.mn-net.com/qr/(IFU)740225)

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 leaflet does not replace the full manual!

## Protocol at a glance

## NucleoSpin® 96 RNA Blood – vacuum processing

<b>1 Lyse blood</b>	400 µL blood 400 µL DL 10 µL Liquid Proteinase K RT, 15 min (shake 1,000–1,200 rpm)
<b>2 Adjust binding conditions</b>	400 µL RB4 Pipette up and down 10–15 times to mix
<b>3 Transfer lysates to NucleoSpin® RNA Blood Binding Plate</b>	
<b>4 Bind RNA to silica membrane of the NucleoSpin® RNA Blood Binding Plate</b>	-0.2 bar*, 1 min
<b>5 Desalt silica membrane</b>	500 µL RB3 -0.2 bar*, 3 min
<b>6 Incubate with rDNase</b>	95 µL rDNase reaction mixture RT, 15 min
<b>7 Wash and dry silica membrane</b>	500 µL RB2 -0.2 bar*, 1 min  800 µL RB3 -0.2 bar*, 1 min  500 µL RB4 -0.2 bar*, 1 min  Remove MN Wash Plate  Dry silica membrane (Maximum vacuum, 10 min)
<b>8 Elute RNA</b>	75–130 µL RNase-free H <sub>2</sub> O RT, 2 min -0.5 bar*, 1 min

\* Reduction of atmospheric pressure

## Protocol at a glance

## NucleoSpin® 96 RNA Blood – centrifuge processing

Please check the user manual if your centrifuge and setup meets the requirements for centrifuge processing of 96-well plates.

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

### Germany and international

MACHEREY-NAGEL GmbH & Co. KG  
Valenciennner Str. 11 · 52355 Düren · Germany  
Tel.: +49 24 21 969-0  
Toll-free: 0800 26 16 000 (Germany only)  
E-mail: [info@mn-net.com](mailto:info@mn-net.com)

### Technical support Bioanalysis

Tel.: +49 24 21 969-333  
E-mail: [support@mn-net.com](mailto:support@mn-net.com)

### USA

MACHEREY-NAGEL Inc.  
924 Marcon Blvd. · Suite 102 · Allentown PA, 18109 · USA  
Toll-free: 888 321 6224 (MACH)  
E-mail: [sales-us@mn-net.com](mailto:sales-us@mn-net.com)

### France

MACHEREY-NAGEL SAS  
1, rue Gutenberg – BP135 · 67720 Hoerdt Cedex · France  
Tel.: +33 388 68 22 68  
E-mail: [sales-fr@mn-net.com](mailto:sales-fr@mn-net.com)

MACHEREY-NAGEL SAS (Société par Actions Simplifiée) au capital de 186600 €

Siret 379 859 531 00020 · RCS Strasbourg B379859531  
N° intracommunautaire FR04 379 859 531

### Switzerland

MACHEREY-NAGEL AG  
Hirsackerstr. 7 · 4702 Oensingen · Switzerland  
Tel.: +41 62 388 55 00  
E-mail: [sales-ch@mn-net.com](mailto:sales-ch@mn-net.com)