

User manuals

NucleoSpin® 96 RNA 740709 / .2 / .4 / .24

NucleoSpin® 96 RNA Core Kit 740466 / .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 products 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/\(241\)740709](https://qr.mn-net.com/qr/(241)740709)

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/\(IFU\)740709](https://qr.mn-net.com/qr/(IFU)740709)

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 – vacuum processing

200 µL sample	
1 Harvest cells	500 × g, 5 min
2 Lyse cells or tissue	300 µL RA1 (cells, tissue) (+3 µL β-ME) or 130 µL RA1 (cells) ¹ (+1.3 µL β-ME)
<i>Optional: If using tissue samples or large number of cells, clearing of lysate with the NucleoSpin® RNA Filter Plate is recommended</i>	
<i>Transfer cleared lysate to MN Square-well Block</i>	
3 Prepare binding	300 µL RA4 (cells, tissue) or 130 µL RA4 (cells) ¹ Prepare vacuum manifold
Mix by pipetting up and down at least 10–15 times	
4 Transfer crude lysates to NucleoSpin® RNA Binding Plate	
5 Bind RNA to silica membrane of the NucleoSpin® RNA Binding Plate	-0.2 bar ² , 1 min
6 Desalt silica membrane by washing	500 µL RA3 -0.2 bar ¹ , 3 min
7 Digest DNA	95 µL rDNase reaction mixture Room temperature, 15 min
8 Wash silica membrane	500 µL RA2 800 µL RA3 500 µL RA4 -0.2 bar ¹ , 1 min each step Remove MN Wash Plate
9 Dry NucleoSpin® RNA Binding Plate by applying vacuum	Maximum vacuum (-0.6 bar ¹), 10 min
<i>Optional: Dry the outlets of the NucleoSpin® RNA Binding Plate by placing it on a Paper Sheet before applying vacuum</i>	
10 Elute RNA	75 µL RNase-free H ₂ O Incubate 2 min -0.5 bar ¹ , 1 min

Protocol at a glance NucleoSpin® 96 RNA – centrifuge processing
Please check the user manual if your centrifuge and setup meets the requirements for centrifuge processing of 96-well plates.

	200 µL sample
1 Harvest cells	500 × g, 5 min,
2 Lyse cells or tissue	300 µL RA1 (cells, tissue) (+3 µL β-ME) or 130 µL RA1 (cells) ¹ (+1.3 µL β-ME)
<i>Optional: If using tissue samples or large number of cells, clearing of lysate with the NucleoSpin® RNA Filter Plate is recommended</i>	
3 Prepare binding	300 µL RA4 (cells, tissue) or 130 µL RA4 (cells) ¹
Mix by pipetting up and down at least 10–15 times	
4 Transfer crude lysates to NucleoSpin® RNA Binding Plate	
5 Bind RNA to silica membrane of the NucleoSpin® RNA Binding Plate	5,600–6,000 × g, 2 min
6 Desalt silica membrane by washing	500 µL RA3 5,600–6,000 × g, 2 min
7 Digest DNA	95 µL rDNase reaction mixture Room temperature, 15 min
8 Wash silica membrane	500 µL RA2 5,600–6,000 × g, 2 min 800 µL RA3 5,600–6,000 × g, 2 min 500 µL RA4 5,600–6,000 × g, 10 min ²
9 Dry NucleoSpin® RNA Binding Plate	Not necessary
10 Elute RNA	75 µL RNase-free H ₂ O Incubate 2 min 5,600–6,000 × g, 2 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

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

Technical support Bioanalysis

Tel.: +49 24 21 969-333
E-mail: 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

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

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