RNA

User manuals

NucleoSpin® 8 RNA **740698 / .5**

NucleoSpin® 8 RNA Core Kit **740465.4**

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)740698

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)740698

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 – vacuum processing

1	**Harvest cells**	500 x *g*, 5 min
2	**Lyse cells or tissue Optional: If using tissue samples or large number of cells, clearing of lysate with the NucleoSpin® RNA Filter Strips is recommended Transfer cleared lysate to MN Square-well Block**	300 µL RA1 (cells, tissue) (+ 3 µL ß-ME) or 130 µL RA1 (cells) [1] (+ 1.3 µL ß-ME)
3	**Prepare binding Mix by pipetting up and down at least 10 – 15 times**	300 µL RA4 (cells, tissue) or 130 µL RA4 (cells) [1] Prepare vacuum manifold
4	**Transfer crude lysates to NucleoSpin® RNA Binding Strips**	
5	**Bind RNA to silica membrane of the NucleoSpin® RNA Binding Strips**	-0.2 bar*, 1 min
6	**Desalt silica membrane by washing**	500 µL RA3 – 0.2 bar*, 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 min each step Remove MN Wash Plate
9	**Dry NucleoSpin® RNA Binding Strips by applying vacuum Optional: Dry the outlets of the NucleoSpin® RNA Binding Strips by placing it on a clean paper sheet (included with the MN Wash Plate) to remove residual wash buffer before applying vacuum**	Maximum vacuum (-0.6 bar*), 10 min
10	**Elute RNA**	75 µL RNase-free H_2O Incubate 2 min -0.5 bar*, 1 min

[1] Cell grown in 96-well plates only

** Reduction of atmospheric pressure*

Protocol at a glance

NucleoSpin® 8 RNA – centrifuge processing

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

1	**Harvest cells**	500 x *g*, 5 min
2	**Lyse cells or tissue** **Optional: If using tissue samples or large number of cells, clearing of lysate with the NucleoSpin® RNA Filter Strips is recommended** **Centrifuge 5,600 – 6,00 x *g* for 5 min**	300 µL RA1 (cells, tissue) (+ 3 µL ß-ME) or 130 µL RA1 (cells) [1] (+ 1.3 µL ß-ME))
3	**Prepare binding** **Mix by pipetting up and down at least 10 – 15 times**	300 µL RA4 (cells, tissue) or 130 µL RA4 (cells) [1]
4	**Transfer crude lysates to NucleoSpin® RNA Binding Strips**	
5	**Bind RNA to silica membrane of the NucleoSpin® RNA Binding Strips**	5,600 – 6,000 x *g*, 2 min
6	**Desalt silica membrane by washing**	500 µL RA3 5,600 – 6,000 x *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 x *g*, 2 min 800 µL RA3 5,600 – 6,000 x *g*, 2 min 500 µL RA4 5,600 – 6,000 x *g*, 10 min
9	**Dry NucleoSpin® RNA Binding Plate**	Not necessary
10	**Elute RNA**	75 µL RNase-free H_2O Incubate 2 min 5,600 – 6,000 x *g*, 2 min

[1] Cell grown in 96-well plates only

** Reduction of atmospheric pressure*

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.

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