

## User manuals

**NucleoSpin® 8 Blood****740664 / .5****NucleoSpin® 8 Blood Core Kit****740455.4**

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/\(241\)740664](https://qr.mn-net.com/qr/(241)740664)

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/\(IFU\)740664](https://qr.mn-net.com/qr/(IFU)740664)

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 Blood – Vacuum processing

<b>1 Lyse samples</b>	200 µL blood (equilibrated to room temperature) 25 µL Proteinase K 200 µL BQ1 Mix 3 times Incubate at RT, 10 min or Mix 3 times and shake at 1250 rpm at RT, 10 min
<b>2 Adjust DNA binding conditions</b>	200 µL ethanol Mix at least 3 – 5 times <i>Note: High-speed pipetting (400 µL/s)            should be used for optimized mixing.</i> Prepare the NucleoVac 96 Vacuum Manifold
<b>3 Transfer lysates to NucleoSpin® Blood Binding Strips</b>	
<b>4 Overlay samples with Buffer B5</b>	150 µL B5
<b>5 Bind DNA to silica membrane of the NucleoSpin® Blood Binding Strips</b>	-0.2 bar*, 5 min
<b>6 Wash silica membrane</b>	600 µL BW -0.2 bar*, 3 min 900 µL B5 – 0.2 bar*, 1 min 900 µL B5 – 0.2 bar*, 1 min Remove MN Wash Plate
<b>7 Dry silica membrane</b>	-0.6 bar*, 10 min
<b>8 Elute DNA</b>	50 – 200 µL BE Incubate 5 min at RT -0.6 bar*, 1 min

## Protocol at a glance – NucleoSpin® 8 Blood – Centrifuge processing

Although the NucleoSpin® 8 Blood kit is designed primarily for vacuum processing, centrifuge processing is also possible.

For processing under centrifugation, the Starter Kit C and a suitable centrifuge are required (see section 2.3). For handling of the 8-well strips and the column holders, refer to the protocol of the Starter Kit C.

The use of NucleoSpin® Blood Binding Strips in a Column Holder C allows the isolation of up to  $n \times 8$  samples ( $n = 1$  to 6). Insert as many of the NucleoSpin® Blood Binding Strips as required into the same positions of each one of the two reusable column holders and place column holders onto MN Square-well Block (see ordering information, section 6.2). Label the column holders or 8-well strips for later identification. Always use 2 Column Holders C containing identical numbers of NucleoSpin® Blood Binding Strips for centrifugation. This avoids the need to balance the centrifuge, and allows multiples of 16 samples to be processed in parallel. We recommend inserting the NucleoSpin® Blood Binding Strips around the center of the column holder.

Follow the standard protocol as described in section 5.1. The vacuum steps are substituted by centrifugation of the Column Holder C with the NucleoSpin® 8 Blood Strips at 5,600 – 6,000 x g for 3 min.

Drying of the silica membrane is achieved by centrifugation for 10 min after the second Buffer B5 washing step. A separate drying step is not required.

During all centrifugation steps, the Column Holder C with the NucleoSpin® 8 Blood Strips should be placed on an MN Square-well Block (see ordering information, section 6.2) to collect the waste.

During the elution step, the Column Holder C with the NucleoSpin® 8 Blood Strips are placed on top of a Rack of Tube Strips.

## 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.

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