Genomic DNA

User manuals

NucleoSpin® 96 Soil **740787 / .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)740787

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)740787

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
Purification of DNA from soil and sediment – vacuum or positive pressure processing

1 Prepare sample	250 – 500 mg sample to MN Bead Tube 700 µL SL1 or SL2
2 Adjust lysis conditions	150 µL Enhancer SX
3 Lyse sample	Mechanically homogenize
4 Precipitate contaminants	11,000 x *g*, 2 min 150 µL SL3 Vortex 5 s 0 – 4 °C, 5 min 11,000 x *g*, 1 min
5 Filter lysate	Assemble filtration setup Load samples -0.7 bar
6 Adjust binding conditions	250 µL SB Mix
7 Bind DNA	Assemble binding setup Load samples -0.2 to -0.6 bar
8 Wash silica membrane	500 µL SB -0.2 to -0.6 bar 550 µL SW1 -0.2 to -0.6 bar 700 µL SW2 -0.2 to -0.6 bar 700 µL SW2 -0.2 to -0.6 bar
9 Dry silica membrane	Assemble drying setup Full vacuum, 15 min or 37 °C, 20 min
10 Elute DNA	Assemble elution setup 100 – 200 µL SE 1 min -0.2 to -0.4 bar

Protocol at a glance

Purification of DNA from soil and sediment – centrifuge processing

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

1 Prepare sample	250 – 500 mg sample to MN Bead Tube 700 µL SL1 or SL2
2 Adjust lysis conditions	150 µL Enhancer SX
3 Lyse sample	Mechanically homogenize
4 Precipitate contaminants	11,000 x *g*, 2 min 150 µL SL3 Vortex 5 s 0 – 4 °C, 5 min 11,000 x *g*, 1 min
5 Filter lysate	Assemble filtration setup Load samples 5,600 – 6,000 x *g*, 5 min
6 Adjust binding conditions	250 µL SB Mix
7 Bind DNA	Load samples 5,600 – 6,000 x *g*, 5 min
8 Wash silica membrane	500 µL SB 5,600 – 6,000 x *g*, 5 min 550 µL SW1 5,600 – 6,000 x *g*, 2 min 700 µL SW2 5,600 – 6,000 x *g*, 2 min 700 µL SW2 5,600 – 6,000 x *g*, 5 min
9 Dry silica membrane	5,600 – 6,000 x *g*, 15 min or 37 °C, 20 min
10 Elute DNA	100 – 200 µL SE 1 min 5,600 – 6,000 x *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
Valencienner 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

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