

User manuals

NucleoMag® RNA Blood

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Dear valued customer,

Thank you for choosing MACHEREY-NAGEL for your application.

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/\(241\)744352](http://qr.mn-net.com/qr/(241)744352)

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/\(IFU\)744352](http://qr.mn-net.com/qr/(IFU)744352)

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!

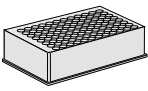
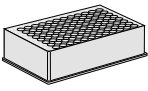
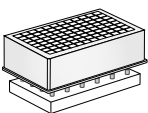
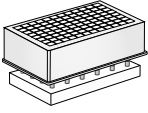
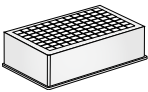
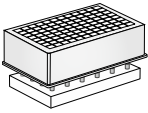
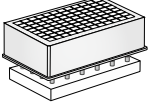
Protocol for the isolation of RNA from blood – protocol at a glance

The NucleoMag® RNA Blood Kit has been specifically designed for the efficient purification of RNA from blood collected in EDTA or Citrate blood collection tubes or blood collected and stabilized in one of the following blood collection tubes:

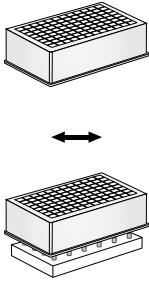
- S-Monovette® RNA Exact (SARSTEDT)
- DNA/RNA Shield™ Blood Collection Tube (ZymoResearch)
- Tempus™ Blood RNA Tubes (ThermoFisher Scientific)

The following protocol exemplifies RNA purification from blood collected in S-Monovette® RNA Exact. The same protocol can be used for Blood collected in DNA/RNA Shield™ Blood Collection Tubes (Zymo Research).

For additional protocols and materials to be supplied by the user, please refer to the full user manual available online.

1 Lyse samples		820 µL blood from SARSTEDT S-Monovette® RNA Exact Tube
		15 µL Liquid Proteinase K
		Mix by pipetting up and down or shaking
		Incubate for 15 min at RT
2 Bind RNA to NucleoMag® B-Beads		15 µL NucleoMag® B-Beads
		140 µL MRB1
		Mix by shaking for 5 min at RT
		(Optional: Mix by pipetting up and down)
		Remove supernatant after 2 min separation
3 Wash with MRB2		Remove Square-well Block from NucleoMag® SEP
		900 µL MRB2
1st wash		Resuspend: Shake 5 min at RT
		(Optional: Mix by pipetting up and down)
		Remove supernatant after 2 min separation
4 Wash with 80 % ethanol		Remove Square-well Block from NucleoMag® SEP
		900 µL 80 % ethanol
2nd wash		Resuspend: Shake 5 min at RT
		(Optional: Mix by pipetting up and down)
		Remove supernatant after 2 min separation
		Dry for 5 min at RT
5 Digest DNA		Remove Square-well Block from NucleoMag® SEP
		300 µL rDNase reaction mixture
		Mix
		Incubate 15 min at RT

6 Rebind



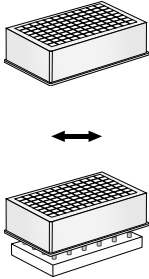
250 μ L MRB1

Mix by shaking for 5 min at RT

(Optional: Mix by pipetting up and down)

Remove supernatant after 2 min separation

7 Wash with 80 % ethanol



Remove Square-well Block from NucleoMag[®] SEP

900 μ L 80 % ethanol

Resuspend: Shake 5 min at RT

(Optional: Mix by pipetting up and down)

Remove supernatant after 2 min separation

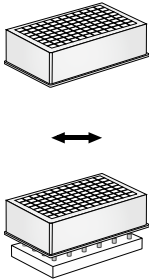
8 Dry Samples



Leave Square-well Block on NucleoMag[®] SEP

Air dry 10 – 15 min at RT

9 Elute RNA



Remove Square-well Block from NucleoMag[®] SEP

50 – 100 μ L RNase-Free H₂O

Shake 5 – 10 min at RT

(Optional: Mix by pipetting up and down)

Separate 2 min and transfer RNA into elution plate / tubes

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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