MACHEREY-NAGEL

High quality RNA from whole blood

Bioanalysis

NucleoMag® RNA Blood

- Automated RNA purification from blood

- Minimal hands-on time and convenient handling

- Works with S-Monovette® RNA Exact, DNA/RNA Shield™, Tempus™ RNA Blood Tubes, and EDTA / Citrate blood collection tubes

NucleoMag® RNA Blood – Purification of RNA from blood

Highlights

- Maximum flexibility – works with multiple blood tube types
- High quality RNA for downstream applications
- Seamless integration into automated workflows
- Minimal hands-on: No pelleting- No reagent removal*
- Convenient handling: processing at room temperature*

Want to automate?

Automate NucleoMag® RNA Blood on most open robotic platforms.
Visit *www.mn-net.com/automation* or contact us for further information:
support@mn-net.com
Tel.: +49 (0) 2421 969 333

Compatibility

- ✓ S-Monovette® RNA Exact (SARSTEDT)
- ✓ DNA/RNA Shield™ Blood Tubes (Zymo Research)
- ✓ Tempus™ RNA Blood Tubes (Thermo Fisher Scientific)
- ✓ EDTA / Citrate blood collection tubes

Specifications

Technology	Magnetic beads
Processing	Manual or automated
Sample Type	Whole blood
Typical yield	3 – 4 µg
Elution volume	50 – 100 µL
Purification time	Approx. 90 min*

*The Tempus™ RNA Blood tubes require additional up-front handling and RNA pelleting at 4 °C. Additional buffers must be ordered separately.
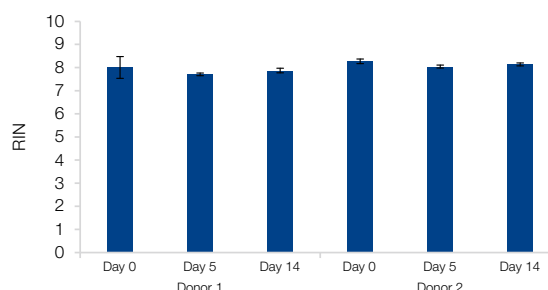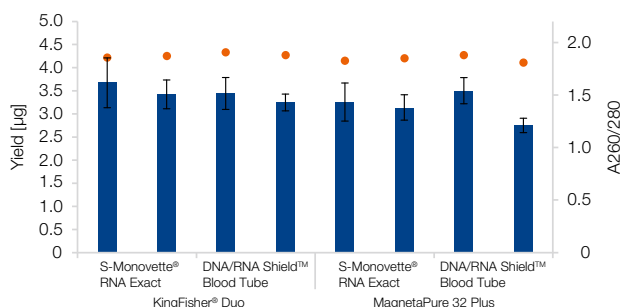
Application data

Additional Application data available at *www.mn-net.com/NucleoMag®RNABlood*

Comparative analysis of RNA yield and purity from SARSTEDT S-Monovette® RNA Exact and Zymo DNA/RNA Shield™ Blood Tubes

Blood specimens sourced from two distinct donors were collected using SARSTEDT S-Monovette® RNA Exact or Zymo DNA/RNA Shield™ Blood Tubes, followed by purification employing the NucleoMag® RNA Blood Kit via automated protocols on the MagnetaPure 32 Plus or KingFisher Duo platform (n = 3 per tube and instrument). Purified RNA underwent UV spectrometry analysis to assess total yield (blue bars) and purity (A260/280, orange dots). The data underscore remarkable reproducibility in RNA yield and purity across different donors, blood collection tubes, and automation platforms.

Robust RNA integrity profiles with S-Monovette® RNA Exact collected samples

Blood specimens were procured from two distinct donors utilizing SARSTEDT S-Monovette® RNA Exact tubes and were subjected to purification employing the NucleoMag® RNA Blood kit via the automated MagnetaPure 32 Plus magnetic rod platform. Processing occurred subsequent to storage at room temperature for 2 hours (Day 0), 5 days (Day 5), or after two weeks of refrigeration at 2 – 8 °C (Day 14). Analysis conducted utilizing the Agilent Pico-Chip revealed excellent RNA integrity (8.0 ± 0.19), persisting across all examined time points and donors (n= 3 per donor and time point).

Ordering information

Product	Specifications	Preps	REF
NucleoMag® RNA Blood	Magnetic bead-based kit for the purification of RNA from whole blood samples collected in SARSTEDT S-Monovette® RNA Exact, Zymo DNA/RNA Shield™ Blood Tubes, or Tempus™ RNA Blood Tubes. The kit includes NucleoMag® B-Beads, Buffers, Liquid Proteinase K, and RNase-free rDNase.	96 preps 384 preps	744352.1 744352.4
Buffer DL RNase-free water	Lysis buffer DL and RNase-free water are needed to process Tempus™ RNA Blood Tubes using the NucleoMag® RNA Blood kit.	100 mL 1000 mL	740202.32 740378.1000
Buffer DL Wash Buffer RAW	Lysis buffer DL and Wash Buffer RAW are needed to process EDTA / Citrate blood tubes using the NucleoMag® RNA Blood kit	100 mL 150 mL	740202.32 740361.150

Blood tubes are not provided and must be purchased separately. The trade marks mentioned herein are the property of their respective owners. NucleoMag® is a registered trademark of MACHEREY-NAGEL. Tempus™ is a registered trademark of Life Technologies. DNA/RNA Shield™ is a registered trademark of Zymo Research Corporation. Monovette® is a registered trademark of SARSTEDT. KingFisher® is a registered trademark of Thermo Scientific Inc.

www.mn-net.com

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