

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

MACHEREY-NAGEL

www.mn-net.com



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*

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.

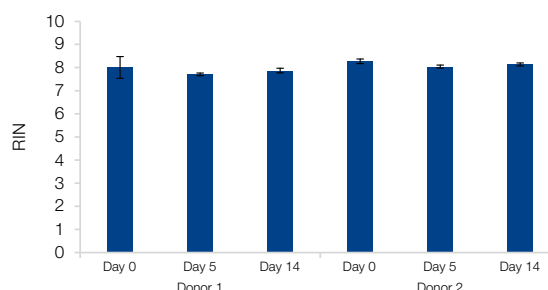
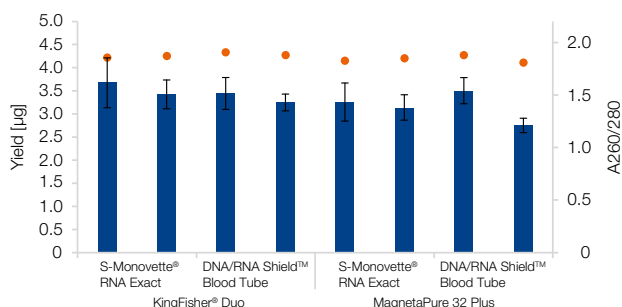
Want to automate?

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
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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 MagnaPure 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 MagnaPure 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 MACHERY-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.

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Management System
EN ISO 13485:2016
ISO 9001:2015



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