

MACHEREY-NAGEL

Automated nucleic acid extraction made easy

Bioanalysis



NucleoMag[®] X32

- Fast, reliable and reproducible DNA/RNA extractions
- Process up to 32 samples in parallel
- Compact footprint

MACHEREY-NAGEL

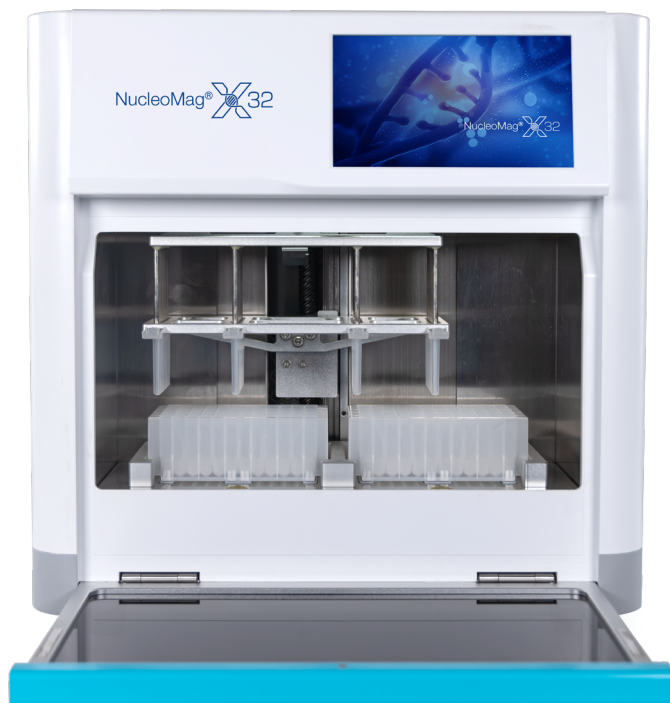
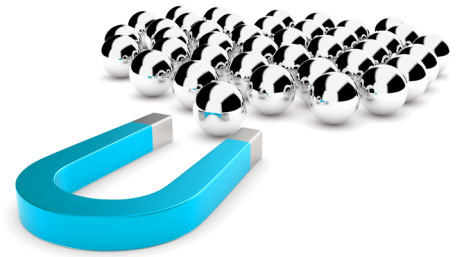
www.mn-net.com



Automated nucleic acid extraction with NucleoMag® X32

NucleoMag® X32 Nucleic Acid Extraction System

The NucleoMag® X32 is an automated platform for magnetic bead-based DNA/RNA extraction with a minimal benchtop footprint. Capable of processing up to 32 samples at one time, the stand-alone instrument is easy to set up, program, and operate. Mixing, magnetic bead transfer, washing, and elution steps are performed automatically, saving valuable hands-on time. The purification process can be completed within 20 to 60 minutes depending on the type of NucleoMag® kit used and the complexity of the program.



Method safety

The MACHEREY-NAGEL automation specialists have developed verified methods for nucleic acid extraction from various sample materials. All verified protocols are provided with the instrument, for an easy and worry-free implementation of this automation solution in your lab.

Automation benefits

Automating repetitive work processes can positively influence your work in many ways. Benefit from consistent, on-time output, reproducibility, standardization, increased hands-off time, and documented data integrity!

Minimal footprint

At just 417 × 410 × 426 mm, the NucleoMag® X32 has a minimal footprint and fits on almost any lab bench.

Flexibility

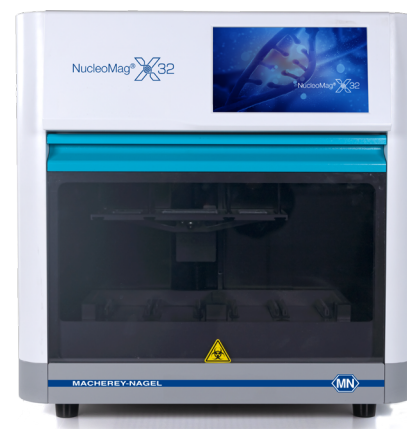
The NucleoMag® X32 is an open platform and allows the modification of any protocol parameters to your needs (e.g. volume, temperature, mixing and magnetic separation conditions).

User-friendly

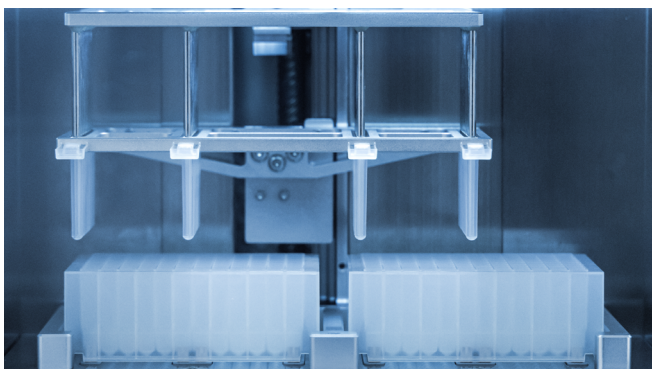
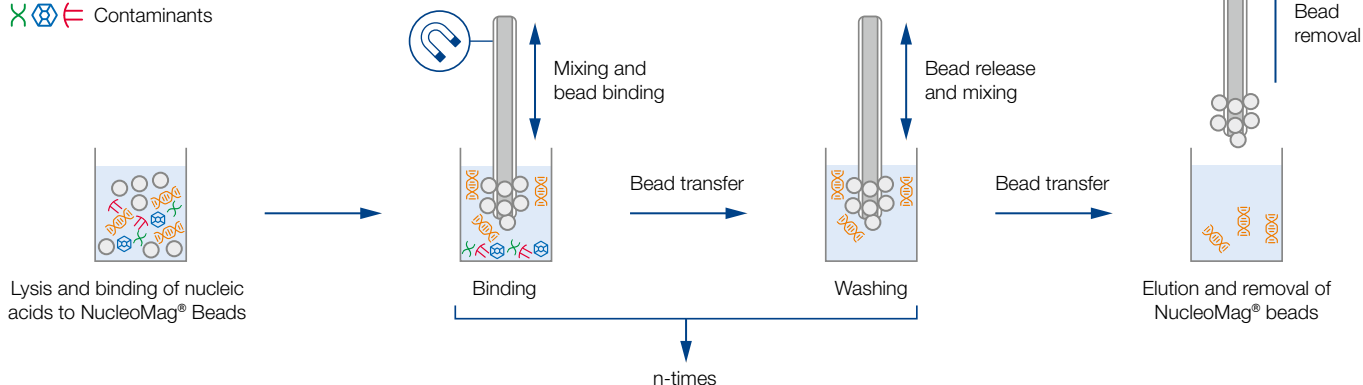
With its intuitive user interface everyone can learn to operate the device within minutes. The device can store up to 500 programs, which can be easily selected, started or modified with just a few clicks. Programs or run files can also be im- or exported to the device via USB drive.

Automated nucleic acid extraction with NucleoMag® X32

Parameter	NucleoMag® X32
Principle	Magnetic rod system
Operation interface	7 inch-color touch screen
Throughput	1 – 32 samples
Processing volume	50 µL to 1000 µL
Consumables	96 deep-well plates, tip combs (see ordering information)
Lysis temperature range	Ambient or heating (37 °C – 120 °C)
Elution temperature range	Ambient or heating (37 °C – 120 °C)
Temperature precision	± 0.5 °C
Adjustable mixing conditions	Speed, time, height/amplitude
Magnetic separation conditions	Speed, time, heights
Program memory	500 programs (internal memory)
Internal lighting	LED
Contamination control	Internal UV lamp
Filter system	Purification filter system to reduce cross-contamination
Dimensions (W x D x H)	417 x 410 x 426 mm
Weight	30.0 kg
Power supply	Universal 110 to 240 V, 50/60Hz, 450 VAC

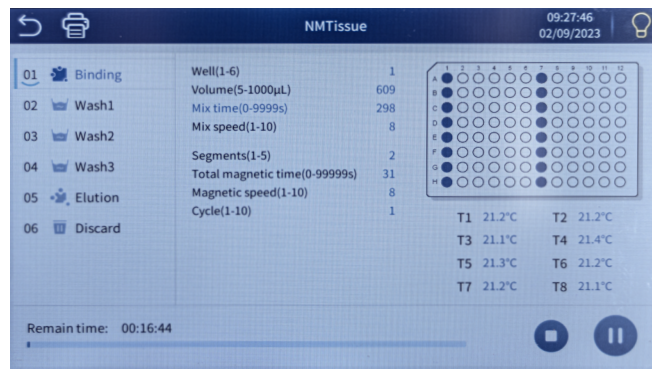


- DNA/RNA
- Magnetic beads
- Contaminants



Safety: UV decontamination

An ultraviolet sterilization lamp (UVC) inside the processing chamber provides effective elimination of most bacterial, viral and stray genomic DNA contaminants. This additional safeguard reduces the possibility of contamination and downstream amplification of unwanted targets.



Easy to use touchscreen interface

The touchscreen control panel of the NucleoMag® X32 allows for quick selection of stored protocols and instrument control. To execute a protocol, select it from the file list, insert a prepared sample plate and tip combs, and press the start button. Run parameters and operating status are displayed during sample processing.

Automated nucleic acid extraction with NucleoMag® X32



Ordering information

NucleoMag® X32, suitable consumables and accessories

The NucleoMag® X32 is a minimal footprint, stand-alone instrument for automated magnetic bead-based extraction of nucleic acids. It is available with compatible or additional consumables such as 96 Deep-well plates and 8-place tip combs. For individual samples, the single tube holder can be used in combination with the 6-well strips.

Product	Specifications	Quantity	REF
NucleoMag® X32	Magnetic rod system for automated nucleic acid extraction using MACHEREY-NAGEL's NucleoMag® kits, parallel processing of up to 32 samples	1	747020
96 Deep-well plates	96 Deep-well plates for NucleoMag® X32	25	744955
Tip combs	8-Place magnetic tip comb for NucleoMag® X32	50	744960
Aluminium rack for magnetic rod systems	Single tube holder	1	747003
6-well sample strips	6-well sample strips for magnetic rod systems	100	744962

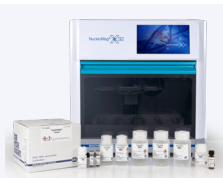
The perfect match: MACHEREY-NAGEL's nucleic acid extraction solutions

For MACHEREY-NAGEL's magnetic bead-based DNA/RNA extraction kits, verified scripts and protocols are included in the scope of delivery.

Applications	Sample material	Kit	REF	
■ Plasmid DNA	Bacteria (<i>E. coli</i>)	NucleoMag® Plasmid	744750.1/.4	
■ Clean up	Reaction mixtures from NGS library kits or enzymatic reaction (such as PCRs)	NucleoMag® NGS Clean up and Size Select	744970.5/.50/.500	
■ RNA	Human / animal cells and tissue, plant tissue	NucleoMag® RNA Pro	744360.1/.4	
	Human / animal cells and tissue, plant tissue	NucleoMag® RNA/DNA Pro	744370.1	
	Blood	NucleoMag® RNA Blood	744352.1/.4	
■ cfDNA	Cell-free BCT® (Streck), plasma, serum	NucleoMag® cfDNA	744550.1/.4	
■ Genomic DNA	Whole blood	NucleoMag® Blood 200 µL	744501.1/.4	
	Animal tissue, Cells, Human tissue	NucleoMag® Tissue	744300.1/.4/.24	
	Whole blood	NucleoMag® Blood 200 µL Prefilled Plates	744510	
	Animal tissue, Cells, Human tissue	NucleoMag® Tissue Prefilled Plates	744302	
	Swab specimens for gDNA isolation (host or microbial)	NucleoMag® DNA Swab	744601.1/.4/.24	
	FFPE, fixed samples, tissue sections	NucleoMag® DNA FFPE	744320.1/.4	
	Forensic traces such as blood spots, casework samples, cigarette filters, contract traces, swabs	NucleoMag® DNA Forensic	744660.1/.4	
	Plant tissue	NucleoMag® Plant	744400.1/.4/.24	
	Water and air samples including wastewater samples	NucleoMag® DNA/RNA Water	744220.1/.4	
	Animal tissue, bacteria, fungi, human tissue, insects	NucleoMag® DNA Bacteria	744310.1/.4	
	Biofilm samples (incl. swabs), soil, stool	NucleoMag® DNA Microbiome	744330.1/.4	
	Food and feed	NucleoMag® DNA Food	744945.1/.4	
	Animal tissue, Bacteria, Blood, Cells, Human tissue, Plant, Saliva, Swabs, Yeast	NucleoMag® HMW DNA	744160.1	
	■ Viral DNA / RNA	Cell-free biological fluids, plasma, serum	NucleoMag® Virus	744800.1/.4
		Animal tissue, blood, cell-free biological fluid, plasma, serum, stool, swabs	NucleoMag® VET	744200.1/.4/.100
		Blood, cell-free biological fluid, human tissue, plasma, serum, stool, swabs	NucleoMag® Pathogen	744210.1/.4/.100
Animal tissue, blood, cell-free biological fluid, plasma, serum, stool, swabs		NucleoMag® VET Prefilled Plates	744209	
	Blood, cell-free biological fluid, human tissue, plasma, serum, stool, swabs	NucleoMag® Pathogen Prefilled Plates	744211	

Worry-free setup

No programming required!
All scripts come with a detailed protocol information with description of procedure steps, loading schemes, and required consumables!



Automation made simple!

Learn more about the NucleoMag® X32, our magnetic bead-based NucleoMag® kits and application notes at www.mn-net.com/NucleoMag-X32

www.mn-net.com

MACHEREY-NAGEL



Management System
EN ISO 13485:2016
ISO 9001:2015

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MACHEREY-NAGEL GmbH & Co. KG · Valencienner Str. 11 · 52355 Düren · Germany

DE +49 24 21 969-0 info@mn-net.com
CH +41 62 388 55 00 sales-ch@mn-net.com

FR +33 388 68 22 68 sales-fr@mn-net.com
US +1 888 321 62 24 sales-us@mn-net.com