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MACHEREY-NAGEL

What's New?

Bioanalysis

New products for your specific needs

- Streamlined solutions for DNA and RNA extraction
- Quality meets innovation
- Reproducible results through standardized processes

MACHEREY NAGEL

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Techtum Lab AB | Västra Finnbodavägen 4B | SE - 131 30 Nacka

What‘s new at MACHEREY-NAGEL?

Explore our new solutions to elevate your research experience

In the fast-paced world of bioanalytics, precision and efficiency are crucial for the success of any research initiative. Given the constantly evolving demands and challenges, our goal is to set new standards through innovative approaches.

The extraction and isolation of DNA and RNA are fundamental steps that form the foundation for many scientific discoveries. Therefore, it is essential that these processes are not only efficient but also of highest quality. Our vision is to provide you not only with the tools you need but also with a mindset that encourages you to explore new pathways and discover innovative solutions.

We are committed to advancing research and development to meet the needs of today and tomorrow. In addition to our latest products, we offer a variety of other solutions designed to optimize your research outcomes and simplify handling.

New products for your life science!

NucleoMag® Plasmid

Automated plasmid purification with transfection-grade purity

Plasmid DNA serves as an important tool in genetic research, allowing scientists to manipulate genes for various purposes, understand biological processes, and develop novel therapies. The NucleoMag® Plasmid kit presents an effective solution by simplifying the plasmid isolation process using magnetic bead technology. This innovative kit streamlines the extraction process while maintaining the purity and quality necessary for scientific investigations.

NucleoBond® RS

Preparative scale isolation of vaccine-grade plasmid DNA

The increasing need for high-quality plasmid DNA is driven by advancements in cell and gene therapy and vaccine production, particularly for mRNA-based vaccines and gene therapies. The NucleoBond® RS columns are designed for large scale isolation of vaccine-grade plasmid DNA from bacterial cultures, utilizing peristaltic pumps or FPLC systems to meet the highest quality requirements. Plasmid DNA with endotoxin levels ≤ 0.01 EU/µg DNA can be isolated. In addition, the RS columns are also suitable for preparative scale RNA Clean-up from pre-purified RNA or IVT reactions.

NucleoMag® HMW DNA

High molecular weight DNA for long-read sequencing

HMW DNA plays a crucial role in various experimental procedures due to its unique characteristics. One primary application of HMW DNA is in genomic sequencing. Its long fragments facilitate the sequencing process, especially in regions with repetitive sequences, ensuring more accurate genome assembly. HMW DNA serves as an excellent substrate for technologies like PacBio and Nanopore sequencing. The new NucleoMag® HMW DNA kit is automation-friendly and DNA can be extracted from various sample types including cells and tissue, plants, blood, saliva, swabs, bacteria, and yeast.

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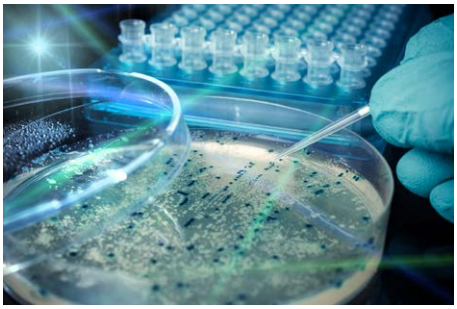
What‘s new at MACHEREY-NAGEL?

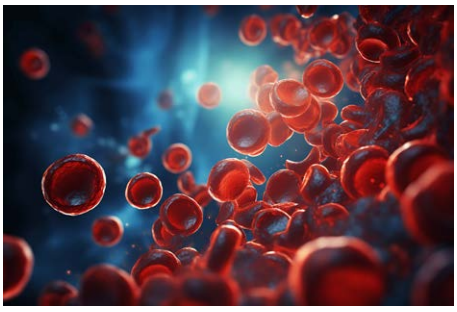
NucleoSpin® Mycoplasma DNA



Mycoplasma DNA from cell culture material

Mycoplasma is a group of bacteria that differ significantly from conventional bacteria due to their unique characteristics. They are known to disrupt cellular functions and induce changes in cell morphology. As a result, the presence of mycoplasma can significantly impact the integrity and reliability of cell-based assays and experiments, leading to unreliable research outcomes and potentially endangering the safety and efficacy of biopharmaceutical products. The NucleoSpin® Mycoplasma DNA kit is able to isolate smallest traces of mycoplasma DNA from cell culture material and is suitable for mycoplasma testing according to EP 2.6.7 and JP G3.

NucleoMag® RNA Blood



Isolation of highly pure RNA from blood samples

This innovative product facilitates the extraction of high-quality human RNA, primed for downstream analyses such as RT-PCR, qRT-PCR, or RNA-Seq. Notably, the kit is compatible with multiple blood tube types, including EDTA / Citrate blood collection tubes, S-Monovette® RNA Exact, DNA/RNA Shield™ Blood Tubes, and Tempus™ RNA Blood Tubes, ensuring maximum flexibility across laboratory settings. With seamless integration into automated workflows, minimal hands-on requirements, and convenient room temperature processing, this kit streamlines RNA purification, promising efficiency and reliability.

NucleoSpin® 96 RNA Plant and Fungi

Universal kit for challenging plant and fungal samples

Plant and fungal material is diverse in terms of structure, cell wall composition, biochemical compounds and the types of organs. Common products for the RNA isolation from plant material usually work fine with samples such as Arabidopsis leaves, but fail to efficiently purify RNA from challenging samples. The NucleoSpin® 96 RNA Plant and Fungi kit efficiently purifies high-integrity RNA from samples containing secondary metabolites, sugars, and starches that can interfere with nucleic acid purification. It allows RNA isolation from various plant organs, including seeds, roots, stems, and needles, as well as standard samples like Arabidopsis leaves.

NucleoMag® Pathogen Prefilled Plates

Save hands-on time with prefilled plates

Isolation of nucleic acids from viral or bacterial pathogens present in clinical samples is the necessary first step for molecular tests that have become standard methodology in research and diagnostic laboratories. Due to the diversity of the sample material – swabs, blood, plasma, body fluids, tissue biopsies, etc. – the isolation procedure itself often poses challenges to laboratory staff and workflows. The NucleoMag® Pathogen Prefilled Plates allow for automated isolation of nucleic acids from various starting materials using magnetic bead technology. To lower the risk of manual handling the prefilled plates minimize handling and make automation easy to use.

NucleoMag® VET Prefilled Plates

Magnetic bead-based veterinary sample extraction

The molecular detection of pathogens is a key tool in veterinary diagnostics and allows for identification and monitoring of diseases in apparently healthy and sick animals. As the demand for fast, reliable and safe purification increases the logical step for modern veterinary diagnostic labs is automated bead based extractions. Minimize manual handling and potential errors by using the new NucleoMag® VET Prefilled Plates for convenient processing of veterinary samples.

What‘s new at MACHEREY-NAGEL?

NucleoType DirectLyse Reagent

Simplification of DNA extraction from different samples

The NucleoType DirectLyse Reagent is a simple reagent set for DNA extraction that eliminates the need for column-based isolation. It is suitable for various sample types, including ear punches (bovine, pig, mouse), blood, hair, hair follicles, and swabs. The extracted DNA can be used directly for PCR or qPCR analysis without additional clean-up, effectively releasing DNA and reducing PCR inhibitors. . The PCR analysis can be applied for genotyping, transgenic identification, identity testing, multiplex PCR, melt point analysis, as well as detecting bacterial and viral DNA in samples.

DNA and nuclease free Beads and MN Beads Trial Pack

Mechanical homogenization of challenging sample materials

Bead beating is an essential step for mechanical homogenization of difficult sample materials. When preparing samples for metagenomic analyses, it is critical that no external DNA or nucleases are present. These could otherwise lead to unwanted interactions or inaccurate results. Our optimized MN Beads ensure this does not happen, providing more reliable and reproducible results. Additionally, we are now offering an MN Beads Trial Pack, helping to find the perfect solution for specific needs.

Ordering information

Product	Pack of/Preps	REF
NucleoMag® Plasmid	1 × 96 / 4 × 94	744750.1 / 744750.4
NucleoMag® Clearing Beads	1 × 96	744751.1
NucleoBond® RS 10	5 columns	743502
NucleoBond® RS 50	1 column	743503
NucleoBond® RS 100	1 column	743504
NucleoBond® RS 200	1 column	743505
NucleoMag® HMW DNA	1 × 96	744160.1
NucleoSpin® Mycoplasma DNA	50	740860.50
NucleoMag® RNA Blood	1 × 96 / 4 × 96	744352.1 / 744352.4
NucleoSpin® 96 RNA Plant & Fungi	1 × 96 / 4 × 96	740128.1 / 740128.4
NucleoMag® Pathogen Prefilled Plates	96	744211
NucleoMag® VET Prefilled Plates	96	744209
NucleoType DirectLyse Reagent	500	743220
MN Beads Type A (Bulk)	400 g	740786.B.250
MN Beads Type B1 (Bulk)	400 g	740809.B.5000
MN Beads Type B2 (Bulk)	400 g	740812.B.1000
MN Beads Type C (Bulk)	200 g	740813.B.250
MN Beads Type D (Bulk)	500 g	740814.B.1000
MN Beads Type G (Bulk)	500 g	740817.B.250
MN Beads Trial Pack	12 preps	740818

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Questions?

Contact the experts from MACHEREY-NAGEL technical support!

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