MACHEREY-NAGEL Most Wanted Products



- Tailored solution for every application
- Selective benchmarking for your benefit
- Outstanding quality made in Germany



MACHEREY-NAGEL www.mn-net.com

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MACHEREY-NAGEL

Founded in 1911, MACHEREY-NAGEL evolved into one of the leading companies in Filtration, Rapid Tests, Water Analysis, and Chromatography.

Since 1993, MACHEREY-NAGEL provides ready-to-use kits and consumables for the purification of DNA, RNA, and proteins (Bioanalysis). As pioneers in nucleic acid purification MACHEREY-NAGEL stands for innovation, quality and reliability. Our products are tailored for academic, industrial, and clinical research.



Why MACHEREY-NAGEL? Because decision is a matter of trust!



00	Plasmid DNA Page	э З
$\langle \! \langle \! \rangle \!$	Clean up Page	ə 5
d and a second s	gDNA Page	€ 6
S ./5	RNA Page	e 8
	Pathogen Page	∋ 10
EN S	Proteins Page	ə 11

2 WWW.mn-net.com NRICO Bruno srl - TORINO - www.enrico-bruno.it



Good to know



NucleoSpin® plasmid isolation kits

- NucleoSpin[®] Plasmid The mini prep for standard applications
 - The proven plasmid mini prep for molecular biology-grade DNA
 - Suitable for high- and low-copy plasmids
 - High yields: up to 40 µg of Plasmid DNA



- NucleoSpin[®] Plasmid EasyPure Ultra-fast preparation of plasmid DNA
 - Convenient handling due to only one combined washing and drying step
 - Our fastest mini prep procedure (14 min/6 preps)
 - Liquid RNase A included



NucleoSpin® Plasmid Transfection-grade – Mini prep plasmids even for transfections

- Our new solution for transfection-grade plasmid DNA
- Mini prep procedure with patented endotoxin removal technology (< 50 EU/µg DNA)
- HTP version for high throughput applications available



Ordering information

Product	Preps	REF
NucleoSpin [®] Plasmid *	10/50/250	740588.10/.50/.250
NucleoSpin [®] Plasmid EasyPure	10/50/250	740727.10/.50/.250
NucleoSpin® Plasmid Transfection-grade *	10/50/250	740490.10/.50/.250

* Kits also available in 8-well strips or/and 96-well plate format (see page 12)

Endotoxin removal

Endotoxins are co-purified during plasmid preparation from bacteria. Since they interfere with eukaryotic cell survival, endotoxin reduction is essential prior for applications like cell transfection.

A quantitative chromogenic LAL-test was used to assess endotoxin content. As indicated, the content of endotoxin is strongly dependent on the plasmid purification technology. Low endotoxin levels were detected following purification with NucleoSpin® Plasmid Transfection-grade, resulting in a plasmid solution suitable for transfection of common cells. For transfection of sensitive cells, plasmids should be purified with NucleoBond® technology. Applications like cloning or sequencing are insensitive to endotoxins and plasmids can be purified with NucleoSpin® technology.





 Column filter for parallel lysate clearing and binding

Large column diameter for

Optimized anion-exchange

high gravity flow-through rates

resin for high plasmid DNA yield

NucleoBond® and NucleoSnap® plasmid isolation kits

- NucleoBond[®] Xtra Midi/Maxi Classic, but fast and yielding
 - Convenient lysate clearing and column loading in one step
 - High yield anion exchange prep for 400 µg (Midi) and 1000 µg (Maxi) transfection-grade plasmid DNA
 - Fast flow through procedure due to large column diameter



- NucleoBond[®] Xtra Midi/Maxi EF Ultrapure for your transfection
 - Endotoxin-free plasmid DNA (< 0.05 EU/µg DNA) for highly sensitive applications
 - Up to 1 mg endotoxin-free plasmid DNA with one single maxi prep
 - Protocols for low-copy plasmids available



- NucleoSnap[®] Plasmid Midi The new column design
 - Isolation of 400–700µg plasmid DNA with time saving filtration technology (25 min/6 preps)
 - Innovative column design for vacuum processing of large volumes (50 mL) and elution in mini spin format (200 µL–500 µL) by centrifugation
 - Endotoxin removal buffer for successful transfections





Ordering information

Product	Preps	REF
NucleoSnap® Plasmid Midi	10/50	740494.10/.50
NucleoBond® Xtra Midi	10/50/100	740410.10/.50/.100
NucleoBond® Xtra Midi Plus *	10/50	740412.10/.50
NucleoBond® Xtra Maxi	10/50/100	740414.10/.50/.100
NucleoBond® Xtra Maxi Plus *	10/50	740416.10/.50
NucleoBond® Xtra Midi EF	10/50	740420.10/.50
NucleoBond® Xtra Midi Plus EF *	10	740422.10
NucleoBond® Xtra Maxi EF	10/50	740424.10/.50
NucleoBond® Xtra Maxi Plus EF *	10/50	740426.10/.50

* incl. NucleoBond® Finalizer system: Time-saving syringe filter technology for DNA desalting and concentration without centrifugation

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Gel/PCR and Sequencing DNA clean-up kits

- NucleoSpin[®] Gel and PCR Clean-up The two-in-one kit
 - One uniform binding buffer with pH indicator for indication of optimal binding conditions
 - High recoveries of small fragments down to 50 bp
 - Special buffers for single stranded DNA or SDS containing samples available



- NucleoSEQ Proven technology for big dye removal
 - Gel filtration technology in a convenient spin column format
 - Pre-filled single spin columns for dye-terminator removal without ethanol precipitation
 - Long-term storage at room temperature







NucleoMag[®] NGS Clean-up and Size Select – Select your Fragment size

- Tunable size selection from 150 bp to 800 bp of Next Generation Sequencing library preparation reactions
- Magnetic-bead technology allows for scalability in manual and automated workflows



Ordering information

Product	Preps	REF
NucleoSpin [®] Gel and PCR Clean-up *	10/50/250	740609.10/.50/.250
NucleoSEQ®	10/50/250	740523.10/.50/.250
NucleoMag [®] NGS Clean-up and Size Select	5/50/500 mL	744970.5/.50/.500

* Kits also available in 8-well strips and 96-well plate format (see page 12)



Genomic DNA isolation kits

- NucleoSpin[®] DNA RapidLyse Faster, easier and superior results
 - Very fast and powerful lysis of gDNA from cells, tissues and organs
 - Processing time of 1 h or less, due to unique lysis chemistry
 - Superior gDNA yields compared to standard extraction methods



- NucleoSpin[®] Tissue The proven allrounder for your gDNA Isolation
 - More than 16 supplementary protocols for a huge variety of starting materials
 - From Mini XS colums for > 0.025 mg sample material to high throughput formats
 - Proteinase K included



- NucleoSpin[®] Blood Flexible use and reliable resulte
 - Suitable for all blood stabilization substances (e.g., citrate, EDTA, heparin, CPDA)
 - Pathogen detection by isolation of viral DNA or bacterial DNA from 200 μL up to 10 mL blood samples
 - Complete removal of PCR inhibitors allows reliable processing



Ordering information

Product	Preps	REF
NucleoSpin® Tissue XS	10/50/250	740901.10/.50/.250
NucleoSpin® Tissue *	10/50/250	740952.10/.50/.250
NucleoSpin® Blood *	10/50/250	740951.10/.50/.250

* Kits also available in 8-well strips/ 96-well plate and magnetic bead based format (see page 12)





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Genomic DNA isolation kits

- NucleoSpin[®] Plant II Cover all your plant applications
 - Comprehensive compatibility with diverse plant materials due to a selectable lysis buffer chemistry including CTAB or SDS
 - NucleoSpin® Filters for lysate clarification and RNase A included
 - Flexible sample amount from 100 mg tissue (Mini), 400 mg (Midi) up to 1500 mg (Maxi)



NucleoSpin[®] Soil – Select your way for pure DNA

- Alternative lysis systems to obtain highest yield from diverse samples
- Ceramic beads included for most efficient cell disruption to obtain up to 10 µg DNA/500 mg soil
- NucleoSpin® Inhibitor Removal Column to remove PCR inhibitors completely



- NucleoSpin[®] Food Find out what's inside your food
 - Complete removal of PCR inhibitors from various sample materials
 - Even low amounts of partially degraded DNA be purified from complex matrices
 - Isolate DNA from up to 200 mg sample material from single prep to HTP



Ordering information

Product	Preps	REF
NucleoSpin [®] Plant II *	10/50/250	740770.10/.50/.250
NucleoSpin [®] Plant II Midi	20	740771.20
NucleoSpin® Plant II Maxi	10	740772.10
NucleoSpin [®] Soil *	10/50/250	740780.10/.50/.250
NucleoSpin [®] Food *	10/50/250	740945.10/.50/.250

* Kits also available in 8-well strips or/and 96-well plate and magnetic bead based format (see page 12)









RNA isolation kits

- NucleoSpin[®] RNA Plus Ultrafast and convenient
 - Lysate clearing and gDNA removal with one column only
 - No time-consuming rDNase digestion necessary (20 min/6 preps)
 - New efficient lysis buffer, no ß-mercapthoethanol or TCEP necessary



- NucleoSpin[®] RNA The Mini prep for your standard applications
 - High integrity RNA from various sample types
 - NucleoSpin® Filters included for efficient sample homogenization
 - RNA Isolation from Mini XS colums for < 5 mg sample material to HTP applications





- NucleoSpin[®] miRNA The most selective way to get your miRNA
 - Parallel isolation of small (<200 nt) and large (>200 nt) RNA from various sample types
 - Excellent RNA recovery and purity by chaotropic salt lysis without phenol / chloroform (patent pending)
 - Additional isolation of total protein fraction ready to use for SDS-PAGE and Western blot analysis



Ordering information

Product	Preps	REF
NucleoSpin® RNA Plus	10/50/250	740984.10/.50/.250
NucleoSpin® RNA *	10/50/250	740955.10/.50/.250
NucleoSpin® RNA XS	10/50/250	740902.10/.50/.250
NucleoSpin® miRNA	10/50/250	740971.10/.50/.250

* Kits also available in 8-well strips/ 96-well plate and magnetic bead based format (see page 12)



NucleoZOL

1505/00

RNA isolation kits

- NucleoZOL[®] The new generation of liquid RNA isolation
 - High yield total RNA extraction from all kind of samples
 - No chloroform, no phase separation: easy and safe procedure
 - Flexible protocol allows fast (< 1 h) isolation of total RNA in one fraction or two separate small (10-200 nt) and large (>200 nt) fractions



- NucleSpin RNA Set for NucleoZOL® Speed up your experiment
 - Mini spin column and buffer set for the isolation of RNA from NucleoZOL lysates
 - Time saving and convenient handling of NucleoZOL lysates for high concentrated eluates (60 $\mu L).$
 - Superior RNA yields due to the efficient NucleoZOL lysis with a typical recovery of 85-95%



Ordering information

Product	Preps	REF
NucleoZOL	200 mL	740404.200
NucleoSpin® RNA Set for NucleoZOL *	10/50	740406.10/50

* NucleoZOL not included



Pathogen nucleic acid isolation kits

- NucleoSpin® Virus One kit for viral RNA and DNA
 - Reliable virus extraction from cell-free biological fluids like fresh or frozen serum / plasma treated with EDTA or citrate
 - $\mbox{-}$ Purification of human or animal viral RNA and DNA from up to 400 μL biological fluids
 - Highest sensitivity for DNA and RNA viruses e.g. HIV, HPV, H5N1, HCV, HBV, BTV...



- NucleoMag[®] VET The Allround kit for veterinary diagnostics
 - Purification of viral RNA / DNA, parasites and bacterial DNA from all common veterinary sample materials
 - Magnetic-bead-based technology for scalable and highly sensitive requirements
 - Processing time: 45–120 min/96 preps (45 min for KingFisher® Flex)





Ordering information

Product	Preps	REF
NucleoSpin® Virus *	10/50/250	740983.10/.50/.250
NucleoMag® VET	1 x 96/4 x 96	744200.1/.4

* Kits also available in 8-well strips/ 96-well plate and magnetic bead based format (see page 12)

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Purification of His-tag proteins

- Protino[®] Ni-NTA Agarose Save money without compromises
 - Simply replace your current Ni-NTA products, no optimization or protocol change necessary
 - Suitable for small proteins, large protein complexes, proteins with low expression rates universal use
 - Aqueous suspension for batch binding, gravity flow, and FPLC[™] applications (1mL/5mL)



- Protino[®] Glutathione Agarose 4B Market-leading performance
 - Best choice for cost-effective GST-tag protein purification
 - Equivalent to Glutathione Sepharose[™] 4B/GSTrap[™] 4B columns no protocol change
 - High binding capacity with up to 8 mg/mL





Ordering information

Product	Preps	REF
Protino [®] Ni-NTA Agarose *	25/100/500 mL	745400.25/.100/.500
Protino® Glutathione Agarose 4B *	10/100 mL	745500.10/.100

* Kits also available as ready-to-use and filled 1 mL FPLC and 5 mL FPLC columns (see page 12)

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Ordering information

Product	Preps	REF
NucleoSpin [®] 8 Plasmid	12x8/60x8	740621/.5
NucleoSpin [®] 96 Plasmid	1x96/4x96/24x96	740625.1/.4/24
NucleoSpin [®] 96 Plasmid Transfection-grade	1x96/4x96/24x96	740491.1/.4/24
NucleoBond® 96 Xtra EF	1 x 96/4 x 96	740430.1/.4
NucleoSpin [®] 8 PCR Clean-up	12x8/60x8	740668/.5
NucleoSpin [®] 96 PCR Clean-up	1x96/2x96/4x96/24x96	740658.1/.2/.4/.24
NucleoMag [®] PCR	1x96/4x96/24x96	744100.1/.4/.24
NucleoSpin [®] 96 DNA RapidLyse	1 x 96/4 x 96	740110.1/.4
NucleoSpin® 8 Blood	12x8/60x8	740664/.5
NucleoSpin® 96 Blood	1×96/4×96/24×96	740665.1/.4/.24
NucleoMag [®] Blood 200 µL	1 x 96 / 4 x 96	744501.1/.4
NucleoMag [®] Blood 3 mL	1 x 96	744502.1
NucleoSpin [®] 8 Tissue	12x8/60x8	740740/.5
NucleoSpin [®] 96 Tissue	2x96/4x96/24x96	740741.2/.4/.24
NucleoMag [®] Tissue	1x96/4x96/24x96	744300.1/.4/.24
NucleoSpin [®] 8 Plant II	12x8/60x8	740669/.5
NucleoSpin [®] 96 Plant II	2×96/4×96/24×96	740663.2/.4/.24
NucleoMag [®] Plant	1x96/4x96/4x96	744400.1/.4/.24
NucleoSpin® 96 Soil	2 x 96 / 4 x 96	740787.2/.4
NucleoSpin® 8 Food	12x8/60x8	740975/.5
NucleoSpin® 96 Food	2x96/4x96/24x96	740976.2/.4/.24
NucleoSpin® 8 RNA	12x8/60x8	740698/.5
NucleoSpin® 96 RNA	2×96/4×96/24×96	740709.2/.4/24
NucleoMag [®] RNA	1 x 96 / 4 x 96	744350.1/.4
NucleoSpin® 8 Virus	12x8/60x8	740643/.5
NucleoSpin® 96 Virus	2×96/4×96	740691.2/.4
NucleoMag [®] Virus	1×96/4×96	744800.1/.4
Protino® 96 Ni-NTA (Protino® Ni-NTA Agarose, Protino® Purification Plate)	1×96/4×96	745425.1/.4

Icon annotation:



Mini spin column for Microcentrifuge tubes (1.5mL or 2mL). A funnel shaped thrust ring is holding a silica membrane of 2.0 mm diameter for xtra small elution volumes. Mini spin column for Microcentrifuge tubes (1.5mL or 2mL)



Mir

Midi column for gravity-flow (NucleoBond®Xtra/NucleoBond® PC Technology) or 15mL midi spin columns for centrifuges



Maxi NucleoBond®Xtra/NucleoBond® PC column for gravity-flow or 50mL maxi NucleoSpin® column for centrifuges

Liquid reagent solution



Insoluble bead based resin matrix

Snap J	Disposable funnel container combined with a mini spin column for Vacuum processing (e.g., using NucleoVac 24 Vacuum Manifold), and subsequent centrifugation for elution in a microcentrifuge tubes (1.5 mL or 2 mL)
FPLC1	Ready-to-use and prefilled 1 mL column for fast protein liquid chromatograp

Mag Superparamagnetic beads

leady-to-use and prefilled 1 mL column for fast protein liquid chromatography (FPLC)

Ready-to-use and prefilled 5 mL column for fast protein liquid chromatography (FPLC) FPLC5 d'

Mini spin columns in 8-well strip format



Mini spin columns in 96-well plate format

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