Bioanalysis

MACHEREY-NAGEL

Accessory Guide

Equipment and Consumables

- MN Bioanalysis accessory products at a glance
- Convenient and flexible handling
- Optimized solutions adapted to individual demands

Introduction

	Technology	Format	Processing
NucleoBond®	Anion exchange chromatography	Columns (Mini to preparative scale)	Gravity flow
		96-well plate	Gravity flow
NucleoFast®	Ultrafiltration	96-well plate	Centrifugation, vacuum
NucleoMag®	Magnetic beads	Flexible (1 – 384)	Magnetic separation
NucleoSEQ®	Gel filtration	Mini spin column	Centrifugation
NucleoSnap®	Silica membrane	Snap off column	Vacuum (centrifugation for elution)
NucleoSpin®	Silica membrane	Spin columns (extra Mini to Maxi)	Centrifugation, vacuum
		8-well strips	Centrifugation, vacuum
		96-well plate	Centrifugation, vacuum
Protino®	Affinity chromatography	Aqueous suspension, bulk material	Batch binding, gravity flow, FPLCTM
		Columns (Mini to Maxi)	Gravity flow
		FPLC™ columns	FPLC™
		96-well plate	Centrifugation, vacuum, gravity flow

Depending on the chosen format, these utilities are designed for optimal performance, ensuring the highest yield and quality of purified nucleic acids and proteins. Various processing methods necessitate specific tools, which can encompass everything from dedicated equipment to multi-use and single-use products. This guide provides a comprehensive overview of all our available accessories.

For any queries or assistance, do not hesitate to reach out to our dedicated support team. E-Mail: support@mn-net.com

Scan the QR code or use the following link to access the digital version of this accessories manual

www.mn-net.com/Accessory-Guide

The online version includes active links that will directly take you to the product page, providing more detailed information.

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Overview

NucleoBond® – Anion exchange chromatography

Our NucleoBond® technology is based on solid phase anion exchange chromatography and the perfect choice for ultrapure, transfection-grade plasmid DNA. The gravity flow columns are available in different formats from Mini to preparative scale.

www.mn-net.com/bioanalysis/bio-brands/nucleobond-information/

NucleoMag® – Magnetic bead based technology

Our NucleoMag® technology enables a magnetic bead based preparation of RNA and DNA. The nucleic acids adsorb to superparamagnetic beads in the presence of chaotropic salts. The NucleoMag® technology is well suited for automated use.

www.mn-net.com/bioanalysis/bio-brands/nucleomag-information/

NucleoSpin® – Silica membrane technology

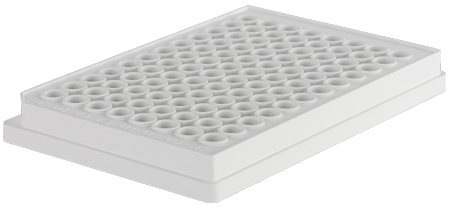
Our NucleoSpin® technology enables rapid and easy RNA and DNA purification. The chaotropic salt based silica membrane purification is available for low (single columns), medium (8-well strips) or high throughput (96-well plates) approaches and for extra small (XS) to large scale (Maxi) nucleic acid preparations.

www.mn-net.com/bioanalysis/bio-brands/nucleospin-information/

Overview

NucleoFast® – Ultrafiltration technology

The NucleoFast® technology is an ultrafiltration and enables cost efficient clean-up of DNA in proven 96-well plate format.



www.mn-net.com/bioanalysis/bio-brands/nucleofast-information/

NucleoSnap® – Silica membrane technology

Our NucleoSnap® technology is a chaotropic salt supported precipitation and filtration procedure. We have especially developed the snap-off column to process large sample volumes easily. Before elution, the funnel part is snapped off and nucleic acids are directly eluted in a Mini spin column.

www.mn-net.com/bioanalysis/bio-brands/nucleosnap-information/

NucleoSEQ® – Gel filtration

Our NucleoSEQ® technology was especially developed for efficient removal of sequencing dye terminators without alcohol precipitation. It is a filtration technology which works with size exclusion.

www.mn-net.com/bioanalysis/bio-brands/nucleoseq/

Equipment

Equipment

Whether your scientific research involves working with nucleic acids or proteins, we equip you with the essential tools and apparatus. Different experimental setups necessitate distinct processing techniques, all of which can be accomplished using our equipment.
Researchers employing nucleic acids or proteins utilize various methods to ensure efficient and effective extraction. We provide specialized equipment for processing samples using magnetic beads, centrifugation, or vacuum techniques.

Magnetic beads serve as a versatile tool in the separation and purification of cells, nucleic acids, and proteins. Our magnetic bead processing equipment is designed to accommodate a broad range of sample volumes, ensuring high efficiency and reproducibility.
Centrifugation, a fundamental technique in the separation of components based on their size, shape, and density, is facilitated by our range of supplementary equipment.

Lastly, for applications that require the use of a vacuum, we offer vacuum equipment meticulously designed to provide precise control over your extraction or purification process.

NucleoMag® SEP Mini

NucleoVac® 96 Vacuum Regulator

General Equipment

	Product	REF	Package unit	Information
	BIO-LAB-TOP	740800	50 Pieces	Protection of laboratory surfaces from spills, precut. Dimensions: 0,48 m x 60 cm.
	BIO-LAB-TOP	740810 740820 740821	1 Piece	Protection of laboratory surfaces from spills. Dimensions: 0.48 m x 50 m / 0.6 m x 50 m / 0.6 m x 100 m.
	MN Frame	740680	1 Piece	For optimized handling of 96-well plates with vacuum manifold. Suited for HTP and automation.
	MN Positive Pressure Frame MPE^2	740474	1 Piece	Adaptor frame for the direct filtration of crude lysate from NucleoSpin® Filter Plates into NucleoSpin® Binding. Plates; suitable for e. g., Hamilton MPE^2 unit
	MN Positive Pressure Frame Universal	740497	1 Piece	Universal Adaptor frame for the direct filtration of crude lysate from NucleoSpin® Filter Plates into NucleoSpin® Binding Plates; suitable for e. g., Tecan Resolvex, Beckman Amplius (not for Hamilton MPE^2 unit)
	MN Shaker Frame	740489	1 Piece	Adapter frame for shaking Protino® and NucleoSpin® 96-well plates. Suited for HTP and automation.

Equipment

Equipment NucleoBond®

	Product	REF	Package unit	Information
	NucleoBond® PC 10000 Rack	740599	1 Piece	Rack for use with NucleoBond® PC 10000, NucleoBond® PC 10000 EF and AX 10000 Columns. Up to five columns can be used in parallel.
	NucleoBond® Rack Large	740563	1 Piece	Rack for use with NucleoBond® AX 500, AX 2000, AX 10000, BAC 100, and Xtra Midi Columns. Up to eight columns can be used in parallel.
	NucleoBond® Rack Small	740562	1 Piece	Rack for use with NucleoBond® AX 20 Columns. Up to ten columns can be used in parallel.
	NucleoBond® Smart Rack	740413	1 Piece	Rack for use with NucleoBond® Xtra Midi / Maxi, Xtra BAC, AX 20, AX 100, AX 500, AX 2000, and AX 10000 Columns. Up to four maxi columns and 6 midi columns can be used in parallel.
	NucleoBond® Xtra Combi Rack	740415	1 Piece	Rack for use with NucleoBond® Xtra Midi / Maxi, Xtra BAC, AX 100, AX 500, AX 2000, and AX 10000 Columns. Up to four maxi columns, 6 midi columns and eight 15 mL reaction tubes or AX20 columns with plastic washers can be used in parallel.

Equipment NucleoMag®

	Product	REF	Package unit	Information
	NucleoMag® 24 SEP	744903	1 Piece	Magnetic separator, for use with 24-well plates. Suited for HTP and automation.
	NucleoMag® SEP	744900	1 Piece	Magnetic separator, for use with 96-well plates. Suited for HTP and automation.
	NucleoMag® SEP Maxi	744902	1 Piece	Magnetic separator, for use with 4 × 50 mL Falcon tubes. Magnetic separator, for use with 4 × 50 mL reaction tubes
	NucleoMag® SEP Mini	744901	1 Piece	Magnetic separator, for use with 12 × 1.5 mL or 2 mL reaction tubes.

Equipment

Equipment NucleoVac®

	Product	REF	Package unit	Information
	NucleoVac® 24 Vacuum Manifold	740299	1 Piece	Vacuum Manifold for processing 1 – 24 NucleoSpin® or NucleoSnap® column.
	NucleoVac® Mini Adapters	740297.100	100 Pieces	Luer adapters for connecting NucleoSpin® or NucleoSnap® columns to NucleoVac® 24 Vacuum Manifold.
	NucleoVac® Valves	740298.24	24 Pieces	Valves for handling different flow rates of NucleoSpin® and NucleoSnap® columns on a NucleoVac® 24 Vacuum Manifold.
	NucleoVac® Vacuum Regulator	740641	1 Piece	Vacuum regulator to be used with NucleoVac® 24 / 96 Vacuum Manifold, for controlling of vacuum. Suited for HTP and automation.
	NucleoVac® 96 Vacuum Manifold	740681	1 Piece	Vacuum Manifold for connecting NucleoSpin® or NucleoSnap® columns to NucleoVac® 24 Vacuum Manifold. Suited for HTP and automation.
	NucleoVac® 96 Spacer Set	740247	1 Set	Spacer for processing Microtube Rack, Square-well Block, Multi 96 Plate / MTP, Deep-well Block on NucleoVac® 96 Vacuum Manifold. Suited for HTP and automation.
	NucleoVac® 96 Waste Container	740639	1 Piece	Waste container for NucleoVac® 96 Vacuum Manifold. Suited for HTP and automation.
	NucleoSpin® Dummy Strips	740685	6 Pieces	For sealing unused rows of Column Holders A and B during vacuum processing of NucleoSpin® 8-well kits. Suited for HTP and automation.
	Replacement Gasket for NucleoVac® 96	740248	2 Pieces	Set of two gasket for the NucleoVac® 96 Vacuum Manifold.

Bead beating

Bead beating

Bead beating is an essential step for mechanical homogenization of difficult sample materials. We have developed a series of bead types and compositions, each suited for a different kind of sample input. Explore our Bead Tube solutions for mechanical disruption of various sample types or consider 96-well formats for higher throughput workflows.

For more onformation about our bead beating solutions visit our website.

www.mn-net.com/beadtubeoverview

Bead Plates

	Product	REF	Package unit	Information
	MN 96 Bead Plate Type A	740850.1 / .4 / .24	1 / 4 / 24 Set(s)	Rack of prefilled tube strips (8 × 12) containing 0.6 – 0.8 mm ceramic beads for homogenization.
	MN 96 Bead Plate Type B	740851.1 / .4 / .24	1 / 4 / 24 Set(s)	Rack of prefilled tube strips (8 × 12) containing 40 – 400 µm glass beads for homogenization.
	MN 96 Bead Plate Type D	740853.1 / .4 / .24	1 / 4 / 24 Set(s)	Rack of prefilled tube strips (8 × 12) containing 3 mm steel beads for homogenization.

Bead beating

2 mL Bead Tubes

	Product	REF	Package unit	Information
	MN Bead Tube Holder	740469	1 Piece	Rubber-foam adapter for processing MN Bead Tubes with Vortex-Genie 2.
	MN Bead Tubes Type A	740786.50	50 Pieces	2 mL tubes with 0.6 – 0.8 mm ceramic beads; for homogenization of soil, sediments, and stool.
	MN Bead Tubes Type B	740812.50	50 Pieces	2 mL tubes with 40 – 400 µm glass beads; for homogenization of Gram-positive and Gram-negative bacteria.
	MN Bead Tubes Type C	740813.50	50 Pieces	2 mL tubes with 1 – 3 mm corundum; for homogenization of yeast and fungi.
	MN Bead Tubes Type D	740814.50	50 Pieces	2 mL tubes with 3 mm steel beads; for homogenization of insects, crustaceans, lipid rich tissue.
	MN Bead Tubes Type E	740815.50	50 Pieces	2 mL tubes with 3 mm steel beads and 40 –400 µm glass beads; for homogenization of bacteria within insects or tissue samples.
	MN Bead Tubes Type F	740816.50	50 Pieces	2 mL tubes with 1 – 3 mm corundum and 3 mm steel beads; for homogenization of challenging tissues, e. g., spleen, or lung tissue.
	MN Bead Tubes Type G	740817.50	50 Pieces	2 mL tubes with 5 mm steel beads; for homogenization of plant material.
	MN Reaction Tube Rack	740736.5	5 Pieces	Rack for use with 80 reaction tubes (1.5 mL and 2 mL).

Bead beating

5 mL Bead Tubes

	Product	REF	Package unit	Information
	MN Bead Tube Holder (5 mL)	740459	1 Piece	Rubber-foam adapter for processing MN Bead Tubes 5 mL with Vortex-Genie 2
	MN Bead Tubes Type A (5 mL)	740799.50	50 Pieces	5 mL tubes with 0.6 – 0.8 mm ceramic beads; for homogenization of 47 mm filter membranes

Bulk Beads

	Product	REF	Package unit	Information
	MN Beads Type A (bulk)	740786.B.250	400 g	0.6 – 0.8 mm ceramic beads; for homogenization of soil, sediments, and stool.
	MN Beads Type B1 (bulk)	740809.B.5000	750 g	40 – 70 µm glass beads; for homogenization of Gram-positive and Gram-negative bacteria.
	MN Beads Type B2 (bulk)	740812.B.1000	750 g	0.3 – 0.4 mm glass beads; for homogenization of Gram-positive and Gram negative bacteria.
	MN Beads Type C (bulk)	740813.B.250	200 g	1 mm corundum; for homogenization of yeast and fungi.
	MN Beads Type D (bulk)	740814.B.1000	500 g	3 mm steel beads; for homogenization of insects, crustaceans, lipid rich tissue.
	MN Beads Type G (bulk)	740817.B.250	500 g	5 mm steel beads, for homogenization of plant material.

Consumables

Laboratory work necessitates the use of versatile, durable, and dependable consumables. These products can vary widely, encompassing everything from basic reaction tubes and 96-well format plates to culture plates.

A wide range of our consumables can also be used to automate your processing workflow. Visit our website for more information about our offerings on automatable kits, consumables, and our automation partners.

MN Wash Plate

www.mn-net.com/automation

For any queries or assistance, do not hesitate to reach out to our dedicated support team. E-Mail: support@mn-net.com

Consumables

	Product	REF	Package unit	Information
	Collection Tubes (2 mL), no lid	740600.4	1000 Pieces	2 mL collection tubes without lids.
	Snap Tubes 15 mL	740822.50	50 Pieces	15 mL conical centrifuge tubes with snap lid.
	Snap Tubes 50 mL	740822.50	50 Pieces	50 mL conical centrifuge tubes with snap lid.
	NucleoSpin® Funnel Columns	740959	30 Sets	Set of NucleoSpin® Funnel Column and Collection Tube (0.5 mL).
	Gas-permeable Foil	740675	50 Pieces	Foil to cover square-well blocks during incubation of bacterial cultures. Suited for HTP and automation.
	Self-adhering PE Foil	740676	50 Pieces	Adhesive tape foils for airtight sealing and storage of 96-well elution plates. Suited for HTP and automation.

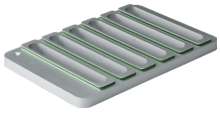
Consumables

	Culture Plate	740488 / .24	4 / 24 Pieces	96-well blocks with 2.1 mL square wells, including Gas-permeable Foils suitable for incubation of bacterial cultures. Suited for HTP and automation.
	24-Square-well Block 10 mL	740679.4	4 Pieces	24-well block with 10 mL deep square wells with silicone lid, pack of 4.
	Lysis Block	740484	4 Pieces	96-well blocks with 2 mL wells for use with NucleoSpin® 96 Blood kits. Suited for HTP and automation.
	Round-well Block Low U-bottom	740482 / .20	4 / 20 Pieces	96-well blocks with 1.25 mL U-bottom round wells. Suited for HTP and automation.
	Round-well Block Low U-bottom with self-adhering foil	740487 / .24	4 / 24 Sets	96-well blocks with 1.25 mL U-bottom round wells, including Self-adhering Foils. Suited for HTP and automation.
	Round-well Block with Cap Strips	740475 / .24	4 / 24 Sets	Set consists of a 96-well block with 1.2 mL round wells and 12 Cap Strips. Suited for HTP and automation.
	Round-well Blocks	740671	20 Pieces	96-well blocks with 1.2 mL round wells. Suited for HTP and automation.
	Square-well Block	740481 / .24	4 / 24 Pieces	96-well blocks with 2.1 mL square wells for use with NucleoMag® SEP. Suited for HTP and automation.
	MN Square-well Block	740476 740678 740476.24	4 / 20 / 24 Pieces	96-well blocks with 2.1 mL square wells, suitable for centrifugation of waste collection.
	MN Wash Plates	740674 / .4 / .24	4 / 20 / 24 Pieces	96-well funnel plates to minimize the risk of cross-contamination. Suited for HTP and automation.

Consumables

	Elution Plate Flat-bottom	740673	20 Pieces	96-well microplates with 370 µL flat-bottom wells. Suited for HTP and automation.
	Elution Plate U-bottom including Self-adhering Foils	740486.24	24 Pieces	96-well microplates with 300 µL U-bottom wells, including Self-adhering Foils. Suited for HTP and automation.
	Elution Plates U-bottom	740672	20 Pieces	96-well microplates with 300 µL U-bottom wells. Suited for HTP and automation.
	Rack of Tube Strips	740637	5 Sets	Set consists of a rack, 12 strips with 8 tubes each. Suited for HTP and automation.
	Rack of Tube Strips with CapStrips	740477 / .24	4 / 24 Sets	Set consists of a rack, 12 strips with 8 tubes each, and 12 Cap Strips. Suited for HTP and automation.
	Cap Strips	740478 / .24	48 / 288 Pieces	Cap Strips for sealing of Tube Strips or Round-well Blocks. Suited for HTP and automation.
	8-well Tip Combs for magnetic rod system	744960	50 pieces	8-place tip combs for magnetic rod systems. The 8-place magnetic tip combs lock into position inside the instruments processing chamber. The tip combs are ideal for magnetic bead processing; the special design enables excellent recovery of magnetic beads. Suited for HTP and automation.
	Deep-well Tip Combs for KingFisher™	744956	4 Pieces	96 Deep-well Tip Combs for use of NucleoMag® kits on KingFisher™ platforms. Suited for HTP and automation.
	96 Deep-well plates for magnetic rod systems	744955	25 Pieces	96-Deep-Well plates with 2 mL wells for use with magnetic rod systems. Suited for HTP and automation.
	96-well Accessory Kit A for KingFisher™	744950	1 Set	For 4 × 96 NucleoMag® Tissue / Trace / Virus preps using a KingFisher™ 96 platform 1 Set includes 4 square-well blocks, 4 deep-well tip combs and 4 elution plates. Suited for HTP and automation.

Consumables

	96-well Accessory Kit B for KingFisher™	744951	1 Set	For 4 × 96 of NucleoMag® Blood 200 µL and NucleoMag® Plant / RNA preps using a KingFisherTM 96 platform 1 Set includes 5 square-well blocks, 4 deep-well tip combs and 4 elution plates. Suited for HTP and automation.
	Starter Set Midi	740744	1 Set	For processing NucleoSpin® Midi Columns under Vacuum Manifold or similar manifolds.
	Starter Set A	740682	1 Set	For processing NucleoSpin® 8-well strips under vacuum on the NucleoVac® 96 Vacuum Manifold or similar manifolds. 1 Set includes 2 columns holders A and 12 NucleoSpin® Dummy Strips. Suited for HTP and automation.
	Starter Set B	740683	1 Set	For processing NucleoSpin® 8-well strips on the Qiagen BioRobots 9600 / 9604 / 3000. 1 Set includes 1 column holder B, 1 column holder D and 12 NucleoSpin® Dummy Strips. Suited for HTP and automation.
	Starter Set C	740684	1 Set	For processing NucleoSpin® 8-well strips under centrifugation. 1 Set includes 2 column holders C, 2 rack of tube strips and 2 MN Square-well blocks. Suited for HTP and automation.

All plates except the Mn square well block use the SBS standard format.

Filtration and Decontamination

Filtration and decontamination are crucial steps in the preparation of DNA and protein samples for various applications in research and diagnostics.

Filtration is often the first step in sample preparation. It helps remove particulate matter and unwanted debris from the sample. For DNA and protein samples, filtration can be performed using various methods, such as centrifugation, microfiltration, or ultrafiltration. The choice of method depends on the sample type and the downstream applications. We offer a variety of different filters to cover all your needs.

Decontamination is essential to ensure the purity of DNA and protein samples. It involves the removal of contaminants that could interfere with subsequent analyses or experiments. These contaminants could be enzymes, lipids, salts, or staining solutions.

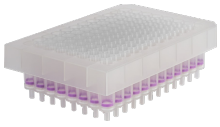
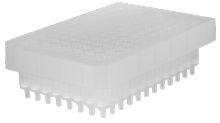
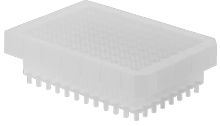
It's important to note that the specific methods and protocols for filtration and decontamination can vary widely depending on the nature of the sample and the intended downstream application. Therefore, researchers often need to optimize these processes based on their specific needs and constraints.

MN Sterilizer CA

Filtration

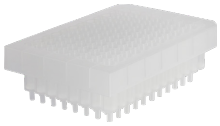
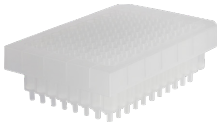
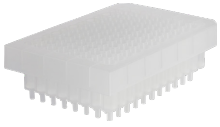
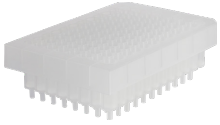
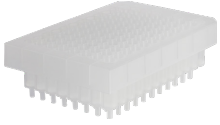
	Product	REF	Package unit	Information
	NucleoBond® Bottle Top Filter Type 1	740547.5	5 Pieces	NucleoBond® Bottle Top Filters to be used with NucleoBond® AX 2000 Columns
	NucleoBond® Bottle Top Filter Type 2	740553.5	5 Pieces	NucleoBond® Bottle Top Filters to be used with NucleoBond® AX 10000 Columns
	NucleoBond® Folded Filters	740561	50 Pieces	Folded filters for NucleoBond® AX 100 Columns
	NucleoBond® Folded Filters XL	740577	50 Pieces	Folded filters for NucleoBond® AX 500 and AX 2000 Columns
	MN Sterilizer CA, Cellulose acetate, 28 mm membrane diameter, 0.2 µm pore size	740401.50	50 Pieces	Sterile filtration and removal of particles from aqeuous solutions. These syringe filters are pre-sterilized with ethylene oxide. Temperature stability is up to 50 °C and the pressure stability for the cellulose membrane is about 4.5 bar
	Glass Fiber Filter (45 mm, EO-treated)	740564	50 Pieces	Glass Fiber Filter (45 mm, EO-treated) is intended for retention of environmental DNA (eDNA) from water samples

Filtration and Decontamination

	NucleoSpin® Filters	740606	50 Pieces	Mini columns for filtration of cell homogenates.
	NucleoSpin® Filters Midi	740607	50 Pieces	Midi columns for filtration of cell homogenates.
	NucleoSpin® Filters XL	740605	50 Pieces	Maxi columns for filtration of cell homogenates.
	NucleoSpin® Plasmid Filter Strips	740730.48F	48 Pieces	NucleoSpin® Plasmid filter stripes for plasmid DNA purification. Suited for HTP and automation.
	NucleoSpin® 96 Plasmid Filter Plates	740483 740708.24F 740708.100F	4 / 24 Pieces	NucleoSpin® 96-well filter plate for plasmid DNA purification Package unit: 4 / 24 / 100 pieces. Suited for HTP and automation.
	NucleoSpin® Forensic Filters, blistered	740988.10 / .50 / .250	10 / 50 / 250 Pieces	For separation of lysate and trace material; NucleoSpin® Forensic Filters inserted into Collection Tubes and blistered; filters are ethylene oxide treated for removal of PCR detectable DNA.
	NucleoSpin® Forensic Filters, bulk	740988.50B / .250B / .1000B	50 / 250 / 1000 Pieces	For separation of lysate and trace material; blistered in one bag; filters are ethylene oxide treated for removal of PCR detectable DNA.
	NucleoSpin® Trace Filter Plate	740677	20 Pieces	For lysis of samples and subsequent removal of particulate matter, for use under vacuum or centrifugation. Suited for HTP and automation.
	NucleoSpin® RNA Filter Strips	740699.12F / .60F	12 / 60 Pieces	8-well strips for filtration of cell and tissue homogenates. Suited for HTP and automation.
	NucleoSpin® 96 RNA Filter Plates	740711	4 Pieces	For filtration of cell and tissue homogenates, for use under vacuum or centrifugation. Suited for HTP and automation.

Filtration and Decontamination

Receiver Columns and Plates

	Product	REF	Package unit	Information
	Receiver Columns 35 µm	740524.10 / .50 / .250	10 / 50 / 250 Pieces	Mini spin columns with inserted hydrophobic frit of 35 µm pore size.
	Receiver Plates 10 µm	740989.4	4 Pieces	96-well plates with inserted filter frits of 10 µm pore size suitable for centrifugation and vacuum. Suited for HTP and automation.
	Receiver Plates 35 µm	740512.4	4 Pieces	96-well plates with inserted filter frits of 35 µm pore size suitable for centrifugation and vacuum. Suited for HTP and automation.
	Receiver Plates 35 µm hydrophilized	740513.4	4 Pieces	96-well plates with inserted hydrophilized filter frits of 35 µm pore size suitable for gravity flow, centrifugation, and vacuum. Suited for HTP and automation.
	Receiver Plates 50 µm	740688.4	4 Pieces	96-well plates with inserted filter frits of 50 µm pore size suitable for centrifugation and vacuum. Suited for HTP and automation.
	Receiver Plates 50 µm hydrophilized	740689.4	4 Pieces	96-well plates with inserted hydrophilized filter frits of 50 µm pore size, suitable for gravity flow, centrifugation, and vacuum. Suited for HTP and automation.

Filtration and Decontamination

Decontamination and Desalting

	Product	REF	Package unit	Information
	NucleoMag® Desalting Beads	744410.50	50 preps	Convenient and scalable desalting of anion exchange eluates using magnetic beads.
	NucleoBond® Finalizer	740519.20 / .100	Set of 20 / 100	Convenient syringe filter for speeding up anion exchange plasmid preaparations by providing a faster desalting solution. 20 Set includes 20 finalizer, 2 syringes (30 mL) and 10 syringes (1 mL) 100 Set includes 100 finalizer, 10 syringes (30 mL) and 10 syringes (1 mL)
	NucleoBond® Finalizer Plus	740520.20	Set of 20	Convenient syringe filter for speeding up anion exchange plasmid preaparations by providing a faster desalting solution. Set includes 20 finalizer, 20 syringes (30 mL) and 20 syringes (1 mL)
	NucleoBond® Finalizer Large	740418.20 / .100	20 / 100 Sets	Convenient syringe filter for speeding up anion exchange plasmid preparations by providing a faster desalting solution. 20 Set includes 20 finalizer, 2 syringes (30 mL) and 10 syringes (1 mL) 100 Set includes 100 finalizer, 10 syringes (30 mL) and 10 syringes (1 mL)
	NucleoBond® Finalizer Large Plus	740419.20	Set of 20	Convenient syringe filter for speeding up anion exchange plasmid preaparations by providing a faster desalting solution. Set includes 20 finalizer, 20 syringes (30 mL) and 20 syringes (1 mL)
	NucleoSpin® Finisher Midi	740439.10 / .50	10 / 50 Preps	Fast concentration and desalting of plasmid DNA by centrifugation.
	NucleoSnap® Finisher Midi	740434.10 / .50	10 / 50 Pieces	The fastest way to desalt and concentrate DNA after your NucleoBond® plasmid preparations.
	NucleoSnap® Finisher Maxi	740435.10 / .50	10 / 50 Pieces	The fastest way to desalt and concentrate DNA after your NucleoBond® plasmid preparations.

Protein purification and analysis

Affinity chromatography, a technique extensively employed in biochemistry and biotechnology, is a powerful tool for the purification of proteins, nucleic acids, and other biomolecules. Its high selectivity allows for a significant degree of purification in just one step.

This method finds its applications in various fields, including the purification of antibodies, isolation of enzymes, and exploration of molecular interactions.

Our proprietary Protino® technology leverages the principles of affinity chromatography. It offers solutions for protein purification using His-tag (via metal ion affinity chromatography) and GST-tag (via affinity chromatography), catering to different throughputs and available in various formats.

Biomolecule blotting is a key technique in molecular biology, used to detect specific proteins, DNA, or RNA molecules in a sample. The process involves transferring the biomolecules from a gel onto a membrane, followed by the application of a probe that binds to the target molecule.

There are three main types of blotting techniques:

- Western blotting for proteins
- Southern blotting for DNA
- Northern blotting for RNA

Each technique uses a specific probe (antibodies for proteins, complementary DNA for Southern, and complementary RNA for Northern) to detect the presence and quantity of the target molecule. For this purpose, the biomolecule is transferred from a gel to a membrane with the use of additional blotting paper. The probe binding is then visualized, often using fluorescence or radioactivity, providing valuable information about the molecule's size and abundance.

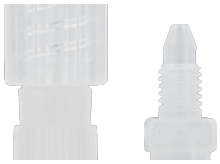
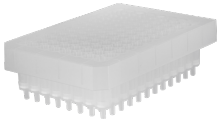
These blotting techniques are fundamental tools in fields such as genetics, cell biology, biochemistry, and medical diagnostics. They allow scientists to study gene expression, protein function, and genetic disorders, among other things.

Porablot Nitrocellulose membrane

Protino® adapters and plastics

	Product	REF	Package unit	Information
	Protino® 1/4 – 28 Adaptor Set	745261	1 Set	Adaptor set for connection of Protino® FPLC columns via 1/4 – 28 connectors.
	Protino® M6 Adaptor Set	745260	1 Set	Adaptor set for connection of Protino® FPLC columns via M6 connectors.
	Protino® inlet Luer Adaptor	745262	1 Piece	Adaptor for connection of Protino® FPLC column inlets via 1/16 ID tubing connector.
	Protino® Inlet PP Adaptor	745263	1 Piece	Adaptor for connection for Protino® FPLC column inlets via 1/16 ID tubing connector.

Protein purification and analysis

	Protino® Luer Adaptor Set	745264	1 Set	Adaptor set for connection of Protino® FPLC columns via Luer connectors.
	Protino® Purification Plate	745426.1 / .4	1 / 4 Piece(s)	96-well plate with special filter frit suitable for centrifugation and vacuum. Suited for HTP and automation.
	Protino® Columns 14 mL	745250.10	10 Pieces	Gravity flow columns with filter frits to be used with Protino® Ni-TED / IDA Resin, Protino® Ni-NTA Agarose, or Protino® Glutathione Agarose 4 B.
	Protino® Columns 35 mL	745255.10	10 Pieces	Gravity flow columns with filter frits to be used with Protino® Ni-TED / IDA Resin, Protino® Ni-NTA Agarose, or Protino® Glutathione Agarose 4 B.

Blotting paper and membranes

	Product	REF	Package unit	Information
	Blotting paper MN 218 B	742139 742137 742138 742115 742131 742112 742113 742111	100 Pieces	Market leading paper quality for reliable biomolecule blottings – MN 218 B 70 mm x 100 mm / 93 mm x 80 mm / 150 mm x 200 mm / 200 mm x 200 mm / 210 mm x 90 mm / 300 mm x 600 mm / 570 mm x 460 mm / 580 mm x 600 mm.
	Blotting paper MN 440 B	742125	100 Pieces	Market leading paper quality for reliable biomolecule blotting – MN 440 B Dimensions: 580 mm x 600 mm.
	Blotting paper MN 827 B	742118 742120 742128	100 Pieces	Market leading paper quality for reliable biomolecule blottings – MN 827 B Dimensions: 580 mm x 600 mm / 200 mm x 200 mm / 160 mm x 160 mm.
	Porablot Nitrocellulose membrane for blotting applications	741280	1 Piece	Nitrocellulose membrane for high quality transfer membranes for biomolecule analysis. Dimensions: 0.3 m x 3 m.

Protein purification and analysis

	Porablot Nitrocellulose membrane with supporting tissue for blotting	741290	1 Piece	Nitrocellulose membrane for high quality transfer membranes for biomolecule analysis. Dimensions: 0.3 m x 3 m.
	Porablot Nitrocellulose membrane with supporting tissue for blotting	741291	10 Pieces	Nitrocellulose membrane for high quality transfer membranes for biomolecule analysis. Dimensions: 200 mm x 200 mm.
	Porablot PVDF membrane for high quality blotting applications	741260	1 Piece	PVDF membrane for high quality transfer membranes for biomolecule analysis. 0.25 m x 3 m.

Enzymes

Enzymes

We offer enzymes for the degradation or modification of nucleic acids. RNase and DNase are nucleases that can cleave RNA and DNA, respectively. These nucleases can be used to remove unwanted RNA or DNA from your sample to ensure highest purity.

Proteinase K is a serine protease that can digest a wide range of proteins, including nucleases. Proteinase K is commonly used in molecular biology applications to isolate or prepare high molecular weight nucleic acids by removing unwanted proteins. Proteinase K is stable in a wide range of pH, temperature, and can withstand many detergents and denaturing agents.

Enzymes

	Product	REF	Package unit	Information
	Liquid RNase A	740397	2.5 mL	Liquid RNase A for RNA digestion. Primarily intended to be used with NucleoSpin® and NucleoBond® kits.
	Lyophilized RNase A	740505 / .30 / .50	30 / 50 / 100 mg	Lyophilized RNase A for RNA digestion. Primarily intended to be used with NucleoSpin® and NucleoBond® kits.
	rDNase Set	740963	1 Set	For digestion of DNA in solutions (e. g., prepurified RNA samples) or for use with NucleoSpin® RNA kits (on-column DNA digest). Includes 7 mL optimized Reaction Buffer for rDNase for best DNase performance.
	Lyophilized Proteinase K	740506.30 / .75 / .100	30 / 75 / 100 mg	For protein digestion in biological samples and inactivation of RNases and DNases.
	Liquid Proteinase K	740396 / .30	5 / 30 mL	Ready to use proteinase K for protein digestion in biological samples and inactivation of RNases and DNases.

Sample storage

Sample storage

DNA and RNA are important molecules for the storage and transmission of genetic information in living organisms. DNA is the permanent genetic storage medium located in the nucleus of most cells, while RNA is the medium that transfers genetic information from the nucleus to the cytoplasm where proteins are synthesised.

DNA and RNA have different chemical structures and stabilities. DNA is more stable than RNA because it does not have a 2'-hydroxyl group, which occur more frequently than DNases. Therefore, RNA must be handled and stored more carefully than DNA.

The best method for storing DNA and RNA depends on the duration and purpose of storage.

We offer suitable stabilising storage media for both DNA and RNA.

Sample storage

	Product	REF	Package unit	Information
	NucleoCard®	740403.10 / .100	10 / 100 Pieces	Blood sample storage card for subsequent DNA extraction.
	NucleoProtect® RNA	740400.50 / .250 / .5000	50 / 250 / 500 mL	Aqueous reagent for stabilizing and storing tissue RNA, quickly penetrating tissues to safeguard cellular RNA.
	NucleoProtect® VET Reagent	740750.50 / .500	50 / 500 mL	For DNA / RNA stabilization, transportation, and inactivation of infectious veterinary specimens for molecular diagnostic purpose.
	NucleoProtect® VET Blood Tube	740755	50 Pieces	Blood tube for collection of animal whole blood samples, pre-filled with NucleoProtect® VET reagent (4 mL).
	Secondary caps for NucleoProtect® VET Blood Tubes	740756	100 Pieces	Sealing caps for NucleoProtect® VET Blood Tubes.
	NucleoProtect® VET Swab Tube	740760	50 Pieces	Swab tube for collection of animal swab samples, pre-filled with NucleoProtect® VET reagent (1.5 mL).
	Secondary caps for NucleoProtect® VET Swab Tubes	740761	100 Pieces	Sealing caps for NucleoProtect® VET Swab Tubes.

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