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Blood Sample Storage Cards

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NucleoCard®

Features

Blood sample storage card for subsequent DNA extraction

- Convenient storage of blood samples at room temperature
- Easy extraction of DNA with NucleoSpin® Tissue kit significantly reduces failure rates
- Suitable for use in real-time PCR assays



Product at a glance

Technology	Impregnated specialized filter paper
Format	Filter cards*
Sample material to be stored	≤200 µL blood
Storage temperature	18 – 25 °C
Storage life	5 years and counting

Applications**

- Long-term storage of ≤200 µL blood samples at 18 – 25 °C
- Stabilizes samples and prevents damage upon long-term storage
- Ideal for shipping of blood samples

* Custom configurations available on request

** NucleoCard® cards are not intended for diagnostic and therapeutic use; DISTRIBUTION AND USE IN THE USA IS PROHIBITED FOR PATENT REASONS

For detailed product information and application data see www.mn-net.com/auxiliary

Ordering information

Product	Cards/Preps	Specification	REF
NucleoCard® ***	10	blood sample storage cards	740403.10
	100	as above	740403.100
NucleoSpin® Tissue	10	NucleoSpin® Tissue Columns, Collection Tubes (2 mL), buffers, Proteinase K	740952.10
	50	as above	740952.50
	250	as above	740952.250

*** Previously named NucleoSave



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MN Sterilizer PES

Features

MN Sterilizer PES, the syringe filter for fast, easy, and convenient sterile filtration of aqueous solutions

- Removal of particulates >0.22 µm
- Fast flow of liquid through the filter
- Very robust membrane → high stability
- Low protein binding
- Low hold-up volume of <50 µL → high recovery



Product at a glance

Format	Syringe filter units
Housing material	Polypropylene
Membrane material	Polyethersulfone (PES)
Nominal pore size	0.22 µm
Filter diameter	25.0 mm
Effective filtration area	3.5 cm ²
Hold-up volume (after air purge)	<50 µL
Inlet connection	Female luer lock
Outlet connection	Male slip luer
Burst pressure	>6 bar
Bubble point	>3.3 bar
Sterilization method	Pre-sterilized with ethylene oxide
Sterility testing	Performed with <i>Bacillus atrophaeus</i> (formerly <i>B. subtilis</i>) spores according to DIN EN 866 part 2
Bacterial challenge	Passed the <i>Brevundimonas diminuta</i> test modified according to DIN 58355 part 3

Applications

- Sterile filtration and removal of particulates from aqueous solutions

For detailed product information see www.mn-net.com/auxiliary

Ordering information

Product	Pack of	Specification	REF
MN Sterilizer PES	50	disposable filter units, membrane material PES, pore size 0.22 µm, membrane diameter 25 mm	740401.50



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bondEX EtBr

Features

Fast and easy decontamination of ethidium bromide (EtBr) or SYBR® Green solutions

- High capacity → up to 50 mg EtBr or SYBR® Green can be bound to the resin
- Safe handling → no contamination, cartridges can be closed
- Indicator cartridge with red color or UV fluorescence signalizes saturation
- No interference by other dyes like methylene blue, because indicator cartridges can be replaced
- Time-saving procedure → the cartridges run by gravity flow, no additional tools, such as syringes, pumps etc. are necessary
- Convenience for large volumes → a 1 liter funnel (included in the starter kit) or a bigger reservoir can easily be connected



Product at a glance

Technology	HIC (hydrophobic interaction chromatography)
Format	Gravity-flow columns
Sample material	<50 L filtered solutions containing up to 50 mg EtBr or SYBR® Green
Filtration of solutions	bondEX Folded Filters XL (provided)
Binding capacity	50 mg EtBr or SYBR® Green

Applications

- Decontamination of solutions containing fluorescent staining agents EtBr or SYBR® Green

For detailed product information see www.mn-net.com/auxiliary

Ordering information

Product	Pack of	Specification	REF
bondEX Starter Kit	1 kit	2 cartridges (50 mg EtBr capacity each), 6 indicator cartridges, 1 liter funnel with adaptor, 1 adaptor for connection to container, 10 folded filters, 1 plastic funnel	740701
bondEX 50	5 sets	each set consists of 1 cartridge (50 mg EtBr capacity) with 2 end caps, hazard label, supporting ring, 3 indicator cartridges, and 2 folded filters	740703
Product accessories	Pack of	Specification	REF
bondEX Folded Filters XL	50		740705



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BIO-LAB-TOP

Features

- Absorbent top layer of filter paper backed with waterproof polyethylene
- Protects benches, floors, table-tops, fume cupboards etc. from soiling and possible damage

Product at a glance

Material	Filter paper, one side coated with polyethylene
Weight per surface area	140 g/m ²
Thickness	0.22 mm
Water absorption	210 – 230 mL/m ²

Applications

- Protects surfaces from radioactive, toxic, colored, and sticky substances

① For detailed product information see www.mn-net.com/auxiliary

Ordering information

Product	Size	Pack of	REF
BIO-LAB-TOP	48 cm x 60 cm	50 sheets	740800
	48 cm x 60 cm	100 sheets	740801
	48 cm x 50 m	1 roll	740810
	60 cm x 50 m	1 roll	740820
	60 cm x 100 m	1 roll	740821



Porablot membranes

Features

- Easy analysis and characterization of biomolecules
- Saving of expensive test solutions
- Possibility of multiple investigations with one blot
- Concentrated sample with higher sensitivity to detection
- Convenient storage of results
- Outstanding band resolution due to uniform, carefully controlled pore structure

Applications

Application	Method	mean pore size →				
		Porablot NY amp 0.2 µm	Porablot NY plus 0.45 µm	Porablot PVDF 0.2 µm	Porablot NCP 0.45 µm	Porablot NCL 0.45 µm
DNA	Southern capillary transfer	+++	+++	–	++	+++
	Alkaline transfer	+	+++	–	–	–
	Vacuum transfer	++	+++	–	+	++
	Electrotransfer	++	+++	–	+	+
	Direct blotting	+++	++	–	–	–
	Direct sequencing	+++	++	–	–	–
	Serum dot blot	–	–	–	++	+++
	Dot blot, slot blot	++	+++	–	++	++
	Chemiluminescence detection	+++	++	–	+	+
RNA	Northern capillary transfer	++	+++	–	++	+++
	Alkaline transfer	+	+++	–	–	–
	Electrotransfer	++	+++	–	++	++
	Vacuum transfer	++	+++	–	+	++
	Dot blot, slot blot	++	+++	–	++	++
Bacterial colonies	Colony and plaque lifts	++	–	–	+	+++
	Replica plating	+++	–	–	+	+++
Proteins	Direct staining with anionic dyes*	–	–	+++	++	++
	Immunochemical staining	+	+	+++	++	++
	Chemiluminescence detection	+	++	+++	+	+
	Western transfer	++	++	+++	++	++
	Dot blot, slot blot	+	+	+++	++	++
	Sequencing	–	–	+++	–	–

* Typical anionic dyes are Coomassie® blue, Ponceau S, and amido black

+++ optimal membrane, ++ good sensitivity with different detection methods,
+ applicable, however with low sensitivity, – not recommended



Porablot NCP

Features / Product at a glance

The classical transfer medium for binding proteins and nucleic acids

Membrane material	100% nitrocellulose
Membrane character	Hydrophilic
Pore size	0.45 µm
Binding capacity	100 µg/cm ²

Applications

- Southern, Northern, and Western blotting, colony and plaque transfer, dot blotting
- Also available with a supporting tissue, see Porablot NCL below

Porablot NCL

Features / Product at a glance

The classical transfer medium for binding proteins and nucleic acids – the supporting tissue prevents breaking, tearing, or shrinking

Membrane material	100% nitrocellulose with inert supporting tissue
Membrane character	Hydrophilic
Pore size	0.45 µm
Binding capacity	100 µg/cm ²

Applications

- Southern, Northern, and Western blotting, colony and plaque transfer, dot blotting
- Also available without supporting tissue, see Porablot NCP above

Ordering information

Product	Size	Pack of	Pore size	REF
Porablot NCP	0.3 x 3 m	1 roll	0.45 µm	741280
	200 x 200 mm	10 sheets	0.45 µm	741281
	∅ 132 mm	50 disks	0.45 µm	741282
	∅ 82 mm	50 disks	0.45 µm	741283
Porablot NCL	0.3 x 3 m	1 roll	0.45 µm	741290
	200 x 200 mm	10 sheets	0.45 µm	741291
	∅ 132 mm	50 disks	0.45 µm	741292
	∅ 82 mm	50 disks	0.45 µm	741293



Porablot NY amp

Features / Product at a glance

The amphoteric nylon membrane with supporting tissue for improved handling

Membrane material	High purity nylon with inert supporting tissue (neutral surface charge)
Membrane character	Amphoteric (isoelectric point at pH 6.5)
Pore size	0.20 µm

Applications

- Southern and Northern blotting, colony and plaque lifts, dot blotting
- Also available with positive surface charge, see Porablot NY plus below

Porablot NY plus

Features / Product at a glance

The strongly cationic nylon membrane with supporting tissue for improved handling

Membrane material	High purity nylon with inert supporting tissue (positive surface charge)
Membrane character	Cationic (in the pH range of 3 – 10)
Pore size	0.45 µm

Applications

- Southern, Northern, and Western blotting
- Very well suited for electro- and vacuum blotting techniques
- Also available with amphoteric surface charge, see Porablot NY amp above

Ordering information

Product	Size	Pack of	Pore size	REF
Porablot NY amp	0.2 x 3 m	1 roll	0.20 µm	741204
	0.3 x 3 m	1 roll	0.20 µm	741200
	200 x 200 mm	10 sheets	0.20 µm	741201
	∅ 132 mm	50 disks	0.20 µm	741202
	∅ 82 mm	50 disks	0.20 µm	741203
Porablot NY plus	0.2 x 3 m	1 roll	0.45 µm	741242
	0.3 x 3 m	1 roll	0.45 µm	741240
	200 x 200 mm	10 sheets	0.45 µm	741241
	220 x 220 mm	10 sheets	0.45 µm	741243
	∅ 132 mm	50 disks	0.45 µm	741244



Porablot PVDF

Features / Product at a glance

The classical transfer membrane for Western transfer, protein binding assays, and protein sequencing

Membrane material	Polyvinylidene difluoride (PVDF)
Membrane character	Hydrophobic
Pore size	0.20 µm
Binding capacity	50 – 100 µg/cm ² *

* For large, globular proteins such as immunoglobulins, for smaller peptides the binding capacity is correspondingly larger

Applications

- Western blotting, protein binding assays, protein sequencing

Ordering information

Product	Size	Pack of	Pore size	REF
Porablot PVDF	0.25 x 3 m	1 roll	0.20 µm	741260
	200 x 200 mm	10 sheets	0.20 µm	741261

For detailed product information and application data see www.mn-net.com/auxiliary



Blotting papers

Features

- Available in sheets up to size 580 x 600 mm
- Smooth surface, ensuring high, uniform absorptivity
- Different thicknesses, degrees of absorptivity, and resulting filtration speeds

Product at a glance

	MN 218 B	MN 827 B	MN 440 B
Speed	Slow	Fast	Medium fast
Surface	Smooth	Smooth	Smooth
Weight	180 g/m ²	270 g/m ²	400 g/m ²
Thickness	0.36 mm	0.7 mm	1 mm
Migration acc. to Klemm	55 – 65 mm/10 min	130 – 140 mm/10 min	130 – 145 mm/10 min
Correlation with Schleicher & Schüll	GB 002	GB 003	GB 004
Correlation with Whatman	3 MM Chr	–	17 Chr

Applications

- Slot and dot blots: MN 827 B, MN 218 B
- Capillary transfer: MN 827 B, MN 440 B
- Electroblothing procedures: Tank blot: MN 218 B
Semi-dry blotting: MN 827 B, MN 440 B
- Vacuum blotting: MN 218 B, MN 827 B

For detailed product information see www.mn-net.com/auxiliary

Ordering information

Product	Size	Pack of	REF
MN 218 B	580 x 600 mm	100 sheets	742111
	300 x 600 mm	100 sheets	742112
	570 x 460 mm	100 sheets	742113
	200 x 200 mm	100 sheets	742115
	150 x 200 mm	100 sheets	742138
	70 x 100 mm	100 sheets	742139
	210 x 90 mm	100 sheets	742131
MN 827 B	93 x 80 mm	100 sheets	742137
	580 x 600 mm	100 sheets	742118
	200 x 200 mm	100 sheets	742120
MN 440 B	160 x 160 mm	100 sheets	742128
	580 x 600 mm	100 sheets	742125