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Брянск (4832)59-03-52	Киров (8332)68-02-04	Новосибирск (383)227-86-73	Севастополь (8692)22-31-93	Уфа (347)229-48-12
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Технические характеристики на принадлежности для фильтрации компании **Sigma-Aldrich**

Виды товаров: вакуумные коллекторы, нейлоновые фильтрующие мембраны, шприцевые фильтры, бутылочные фильтрационные установки, бесшприцевые фильтры для подготовки проб, аналитические фильтры-воронки, воронки напорного фильтра.

M4664

Nalgene® vacuum manifold



autoclavable

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1 EA

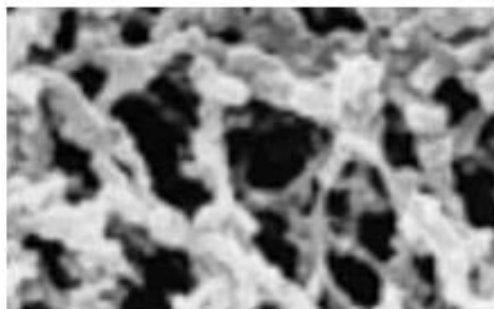
moisture extraction device, sample protection unit

PROPERTIES

autoclavable

Nalgene®

Filter Membranes



Produced by the precipitation or stretching of polymeric materials, membrane filters are commonly used in both industry and research. Properties of membrane filters vary widely with differences in composition, surface treatments, and pore size. Selecting the ideal filter requires an understanding of basic characteristics. We offer an extensive collection of Millipore® and Whatman™ membranes for filtration.

MEMBRANE FILTER CHARACTERISTICS

- **Chemical compatibility:** The filter material must be compatible with the chemical nature of both the liquid and dissolved solutes being filtered to avoid structural failure.
- **Wettability:** Hydrophilic membranes are easily wet with water and are preferred for filtering aqueous solutions. Hydrophobic membranes are recommended for gas filtration, low surface tension solvents, and venting, and can be wet in organic solvents such as methanol, allowing both aqueous liquids and organic solvents to pass through.

- **Pore Size:** Pore size provides an indication of largest pore diameter and can be related to the membrane's ability to filter out particles of a certain size.
 - 0.1 μm : mycoplasma removal
 - 0.20 to 0.22 μm : filter sterilization and ultracleaning of aqueous solutions and organic solvents (e.g., HPLC)
 - 0.45 μm : clarification of aqueous solutions and organic solvents
 - 0.8 μm : coarse particulate removal and removal of bacteria
 - 100 μm : removal of sand, activated carbon, bead resins
- **Diameter:** The diameter, size, and shape of the filter are selected based on the apparatus used for filtration. Disc filters, syringe filters, extractors, and bottle top filtration devices have specified diameters for membrane filters.
- **Flow rate:** Defined as the time required for the flow stream to pass through the filter, flow rate is critical in determining how rapidly a filtration can be completed. Membrane material, thickness, porosity, and pore architecture can all lead to differences in flow rate.
- **Optical properties:** When visually analyzing retentates, membrane optical properties must be compatible with the imaging method in order to provide a consistent background and reduce noise.
- **Color:** Filter color selection can provide appropriate contrast for easy and reliable identification and quantitation. Black filters provide distinction between light colored particles and microorganisms. White filters provide distinction between blue, red, and darker microbes and particulates. Green filters offer a background for viewing black, white, and colorless particles.
- **Binders:** Commonly used in non-woven, fiber-based materials, binders provide shape and strength to the final product.
 - **Organic binders** provide higher wet strength and lower fiber release for high pressure filtration.
 - **Inorganic binders** impart high thermal and chemical stability and inertness to microbiological degradation compared to organic binders.
- **Cellulose acetate membranes** are ideal for biological and clinical analysis, sterility tests, and scintillation measurements. They exhibit very low protein binding affinity and are recommended for low protein binding applications. Solvent- and heat-resistant up to 180 $^{\circ}\text{C}$, these membranes are suitable for the filtration of either aqueous cell culture and alcoholic media.
- **Cellulose nitrate membranes** are recommended for general filtration applications including buffer filtration and feature low extractable levels and a narrow pore size distribution. While nitrocellulose is often considered to be brittle and thermally unstable, these filters offer increased strength and flexibility as well as thermal stability up to 121 $^{\circ}\text{C}$, allowing them to be autoclaved without shrinkage or integrity loss. Cellulose nitrate membrane filters feature high protein binding, which may result in sample loss when filtering biological samples.
- **Mixed cellulose ester (MCE) membrane filters** are composed of both cellulose acetate and cellulose nitrate and are biologically inert, low binding, and thermally stable with a high loading capacity, making them an ideal choice for a variety of filtration applications including aqueous solution clarification, particle counting, HPLC sample filtration, and microbial analysis. For applications requiring manual particulate or colony counting, a gridded surface and color contrast facilitates particle detection and minimizes eye fatigue.
- **Polyethersulfone (PES) membranes** are known for their thermal stability, durability, and resistance to acidic and alkaline solutions. Millipore Express® PLUS hydrophilic polyethersulfone (PES) membranes are commonly used as an alternative to cellulose membranes and offer fast flow, high filter capacity, and low protein binding while remaining bacterially retentive.

- **Polytetrafluoroethylene (PTFE) membranes** have high strength and broad chemical compatibility, and are commonly used to clarify aqueous solutions, organic solvents, corrosives, and aggressive fluids. Hydrophilic PTFE membranes are typically used in filtering aqueous solutions, while hydrophobic PTFE membranes are typically used for filtering organic solvents and gases as well as particle monitoring.
- **Nylon and polyamide membranes** offer broad compatibility, strength, flexibility, and hydrophilicity with low extractables, and are routinely used for the filtration of aqueous and organic solutions for use in HPLC and other analytical methods. They can exhibit high protein and small molecule binding and are not recommended for biological samples.
- **PVDF membranes** are utilized in a variety of biomedical research applications. Available in both hydrophilic and hydrophobic formats, Durapore® membrane filters provide high flow rates and throughput, low extractables, and broad chemical compatibility. Hydrophilic Durapore® membranes exhibit very low protein binding and are used to filter protein solutions. Conversely, hydrophobic Durapore® membranes exhibit high protein binding.
- **Regenerated cellulose membranes** are hydrophilic, spontaneously wet in water, and feature strong chemical resistance for filtering both aqueous and organic solutions. They are commonly used for filtering HPLC solvents and solutions. Regenerated cellulose membrane filters can be sterilized and have low protein binding and extractables, enabling their use with biological samples.
- **Polycarbonate membrane filters** are produced from a smooth, glass-like polycarbonate film and are recommended for all analyses in which the sample is viewed on the surface of the membrane, such as optical or electron microscopy. The unique membrane manufacturing process (track-etching) ensures a precise and consistent pore diameter for accurate sample separation by size. These membrane filters are commonly used in trace element and particulate analysis, gravimetric analysis, water analysis, and general filtration.
- **Polypropylene membrane and net filters** feature both solvent-compatibility and thermal stability. These filters are ideally suited for general solution clarification and prefiltration applications, including bioburden reduction. Millipore® polypropylene membrane and net filters provide high particle retention and dirt holding capacity, as well as a low pressure drop. While these filters are designed for use with organic solvents, they can also be used for the filtration of aqueous solutions, after wetting with an alcohol.
- **Polyvinylidene chloride (PVC) filters** are preferentially used with gravimetric analysis to quantify silica, carbon black, or quartz air particulates. Millipore® PVC membrane filters are produced from high-quality PVC and have been developed for use with ASTM, NIOSH, and OSHA air monitoring methods.
- **Alumina oxide membrane filters** are non-toxic and compatible with most solvents and aqueous solutions. The precise, nondeformable, honeycomb pore structure eliminates lateral crossover between pores, ensuring exact filter cut-offs and a narrow pore size distribution. These membrane filters exhibit low protein binding, have minimal autofluorescence, become virtually transparent when wet, and support cellular growth. Whatman™ Anodisc™ membrane filters are available with a bonded polypropylene support ring to allow for easier handling
- **Glass fiber filters** are produced from borosilicate glass fibers and are typically used as depth filters in prefiltration of large particulate or viscous solutions. The addition of binders can improve the wet strength for filtering heavily contaminated solutions but renders the filter unsuitable for gravimetric analysis or hot gas filtration due to mass loss upon heating. Glass fiber filters without a binder resin can be heated up to 500 °C without mass loss.

- **Quartz fiber filters** are manufactured from pure quartz fibers, preventing any surface filter reaction with acidic gases. Due to their inertness, quartz fiber filters are well suited for measuring heavy metal concentrations and small particle quantities. Quartz fiber filters also exhibit good weight and form stability and are commonly used in air sampling and trace element analysis.
- **Silver membrane filters** are ideal for applications involving aggressive fluids and/or high temperatures and are specified in National Institute for Occupational Safety and Health (NIOSH) standards for the analysis of crystalline and amorphous silica, lead sulfide, boron carbide, and chrysotile asbestos.

FILTER MEMBRANE TYPES

- **Alumina oxide membrane filters** are non-toxic and compatible with most solvents and aqueous solutions. The precise, nondeformable, honeycomb pore structure eliminates lateral crossover between pores, ensuring exact filter cut-offs and a narrow pore size distribution. These membrane filters exhibit low protein binding, have minimal autofluorescence, become virtually transparent when wet, and support cellular growth. Whatman™ Anodisc™ membrane filters are available with a bonded polypropylene support ring to allow for easier handling.**
- **Cellulose acetate membranes** are ideal for biological and clinical analysis, sterility tests, and scintillation measurements. They exhibit very low protein binding affinity and are recommended for low protein binding applications. Solvent- and heat-resistant up to 180 °C, these membranes are suitable for the filtration of either aqueous cell culture and alcoholic media.
- **Cellulose nitrate membranes** are recommended for general filtration applications including buffer filtration and feature low extractable levels and a narrow pore size distribution. While nitrocellulose is often considered to be brittle and thermally instable, these filters offer increased strength and flexibility as well as thermal stability up to 121 °C, allowing them to be autoclaved without shrinkage or integrity loss. Cellulose nitrate membrane filters feature high protein binding, which may result in sample loss when filtering biological samples.
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- **Mixed cellulose ester (MCE) membrane filters** are composed of both cellulose acetate and cellulose nitrate and are biologically inert, low binding, and thermally stable with a high loading capacity, making them an ideal choice for a variety of filtration applications including aqueous solution clarification, particle counting, HPLC sample filtration, and microbial analysis. For applications requiring manual particulate or colony counting, a gridded surface and color contrast facilitates particle detection and minimizes eye fatigue.
- **Nylon and polyamide membranes** offer broad compatibility, strength, flexibility, and hydrophilicity with low extractables, and are routinely used for the filtration of aqueous and organic solutions for use in HPLC and other analytical methods. They can exhibit high protein and small molecule binding and are not recommended for biological samples.
- **Polycarbonate membrane filters** are produced from a smooth, glass-like polycarbonate film and are recommended for all analyses in which the sample is viewed on the surface of the membrane, such as optical or electron microscopy.

The unique membrane manufacturing process (track-etching) ensures a precise and consistent pore diameter for accurate sample separation by size. These membrane filters are commonly used in trace element and particulate analysis, gravimetric analysis, water analysis, and general filtration.**

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- **Polypropylene membrane and net filters** feature both solvent-compatibility and thermal stability. These filters are ideally suited for general solution clarification and prefiltration applications, including bioburden reduction. Millipore® polypropylene membrane and net filters provide high particle retention and dirt holding capacity, as well as a low pressure drop. While these filters are designed for use with organic solvents, they can also be used for the filtration of aqueous solutions, after wetting with an alcohol.**
- **Polytetrafluoroethylene (PTFE) membranes** have high strength and broad chemical compatibility, and are commonly used to clarify aqueous solutions, organic solvents, corrosives, and aggressive fluids. Hydrophilic PTFE membranes are typically used in filtering aqueous solutions, while hydrophobic PTFE membranes are typically used for filtering organic solvents and gases as well as particle monitoring.
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- **Quartz fiber filters** are manufactured from pure quartz fibers, preventing any surface filter reaction with acidic gases. Due to their inertness, quartz fiber filters are well suited for measuring heavy metal concentrations and small particle quantities. Quartz fiber filters also exhibit good weight and form stability and are commonly used in air sampling and trace element analysis.**
- **Regenerated cellulose membranes** are hydrophilic, spontaneously wet in water, and feature strong chemical resistance for filtering both aqueous and organic solutions. They are commonly used for filtering HPLC solvents and solutions. Regenerated cellulose membrane filters can be sterilized and have low protein binding and extractables, enabling their use with biological samples.
- **Silver membrane filters** are ideal for applications involving aggressive fluids and/or high temperatures and are specified in National Institute for Occupational Safety and Health (NIOSH) standards for the analysis of crystalline and amorphous silica, lead sulfide, boron carbide, and chrysotile asbestos.

Z290793

Nylon filter membranes

pore size 0.45 µm, diam. 47 mm, pack of 100



Z290807

Nylon filter membranes

pore size 0.22 μm , diam. 47 mm, pack of 100



Z290823

Nylon filter membranes

pore size 0.2 μm , diam. 25 mm



Z290815

Nylon filter membranes

pore size 0.45 μm , diam. 25 mm



Z290785

Nylon filter membranes

- pore size 0.45 μm , diam. 90 mm

Syringe Filters



Syringe filters are single-use, membrane-based devices used for the removal of particulate impurities from liquid and gas samples prior to analysis by methods such as HPLC, ion chromatography, gas chromatography, ICP, and dissolution testing. Proper filtration of samples improves the quality and consistency of analytical results and decreases instrument downtime. Disposable syringe filters are commonly used for fast and efficient filtering. Selection should be by application. Sterile syringe filters are used to sterilize solutions or clarify sterile solutions, while nonsterile syringe filters are used for general filtration and sample purification. Syringe filters are categorized by two essential characteristics – membrane and filter housing. Both characteristics must be compatible with the application and solution being filtered. Syringe filter membranes are matched by composition, filter diameter, and pore size, while syringe filter housings are matched to end applications based on composition and format.

Z338389

Whatman® GD/XP syringe filters

Nylon membrane

0.45 μm



WHA67113602

Whatman® Polycap TF encapsulated filter for organic solvents

Polycap TF 36, pore size 0.2 μm , 1/4 in. male NPT inlet, male outlet for 6 to 10 mm (1/4 to 3/8 in.) tubing
0.2 μm



WHA67007501

Whatman® Polycap TF encapsulated filter for organic solvents

Polycap TF 75, pore size 0.1 µm, Inlet 1/4 - 3/8 in. (6-9 mm) Stepped Hose Barb Outlet 1/4 - 3/8 in. (6-9 mm) Stepped Hose Barb
0.1 µm



WHA67117502

Whatman® Polycap TF encapsulated filter for organic solvents

Polycap TF 75, pore size 0.2 µm, 1/4 in. male NPT inlet, stepped barb outlet (for 6 to 10 mm (1/4 to 3/8 in.) tubing)
0.2 µm



WHA10463800

Whatman® Roby automated filter 25 mm

Glass fiber pre-filter GF92, pore size 1 µm
1 µm



WHA10463815

Whatman® Roby automated filter 25 mm

pore size 0.7 µm, Glass Fiber GF55
0.7 µm



WHA10463814

Whatman® Roby automated filter 25 mm

glass fiber pre-filter GF55, pore size 0.7 µm

Vacuum Filters



We provide bottle-top vacuum filtration and pressure filtration units for routine filtration of buffers, solvents and culture media, syringeless filters for HPLC and UHPLC sample preparation, pressure filter funnels for solute and compound drying, and analytical filter funnels for microbiological testing. Vacuum manifolds and in-line filter devices to help confine and isolate contaminants in vacuum systems are also available for convenience.

- **Bottle-Top Filtration Units**
- **Syringeless Filters for Sample Preparation**
- **Analytical Filter Funnels**
- **Pressure Filter Funnels**

BOTTLE-TOP VACUUM FILTRATION UNITS

Bottle-top vacuum filtration units and filtration assemblies are designed for large volume filtration or sterile filtration of buffers, culture media, and other aqueous solutions. Products should be selected based on membrane material, membrane pore size, funnel volume capacity, and receiver bottle neck diameter. Both sterile and non-sterile filtration units are available for selection and include Millicup[®] filters, Corning[®], BRAND[®], DWK DURAN[®], Nalgene[®] FastCap[™], ZapCap[®], and TPP[®] Filtermax brands.

Membrane Material

- Polyethersulfone (PES) membranes are recommended for filtering culture media, as they exhibit fast flow rates and low protein binding.
- Cellulose acetate (CA) membranes are ideal for filtering biological samples and culture media containing sera, as they exhibit very low protein and macromolecule binding.
- Cellulose nitrate (CN) membranes are recommended for general buffer filtration and feature low extractables but high protein binding.
- PTFE membranes feature high chemical compatibility and low protein and small molecule binding, and are useful in filtering aggressive chemicals.
- Nylon membranes are hydrophilic with broad chemical compatibility and are recommended for applications requiring very low extractables. They can exhibit high protein and small molecule binding and are not recommended for biological samples, but can be used for filtering protein-free media.
- Hydrophilic PVDF membranes are very low protein binding and are recommended for filtering protein solutions.
- Glass fiber filters are produced from borosilicate glass fibers and are typically used for pre-filtration.

Membrane Pore Size

- 0.45 μm membranes are used for clarification and particulate removal
- 0.20 μm and 0.22 μm membranes can be used for filter sterilization and ultracleaning of aqueous solutions and organic solvents for HPLC
- 0.1 μm membranes are sufficient for mycoplasma removal

WHATMAN[®] MINI-UNIPREP[®] SYRINGELESS FILTERS FOR SAMPLE PREPARATION

Syringeless filters are preassembled filtration devices that feature a plunger and filter and can be used to prepare samples for HPLC, UHPLC, and other analytical methods. These devices are available in a variety of materials. Polypropylene devices are convenient and easily disposed. Borosilicate devices eliminate the introduction of plastic leachables and are more broadly compatible with a variety of solvents. Many are compatible with autosamplers for faster workflows and convenience.

NALGENE® ANALYTICAL FILTER FUNNELS

Analytical filter funnels are used to perform microbiological testing and analysis of water, raw materials, food and beverage products, and other finished products. These filter funnels enable easy retrieval of the filter membrane for analytical analysis. Devices should be selected based on sterility, filter membrane material, filter accessibility, throughput, and analytical technique.

PRESSURE FILTER FUNNELS

Pressure filter funnels from Aldrich® and ACE Glass can be used for drying air-sensitive compounds with inert gas and are used to rapidly dry hygroscopic, air-, and moisture-sensitive samples for analysis. Pressure filter funnels should be selected based on material tensile strength, chemical resistance, environmental sensitivity, and filter accessibility.

Z276545

Ace Hirsch filter funnel

capacity 170 mL, porosity 25-50 µm



Z276561

Ace Hirsch filter funnel

capacity 170 mL, porosity 10-20 µm



Z244023

ACE Manifold with threaded stopcocks

positions, 5



Z286079

Ace vacuum manifold system

#15 Ace-Threds



Z277126

Ace vacuum manifold with Firestone valve

positions, 4



Z277134

Ace vacuum manifold with Firestone valve

positions, 5



Z546437

Aldrich® Buchner funnel

funnel capacity 2 mL, disc diam. 10 mm, porosity 10-20 µm



Z546488

Aldrich® Buchner funnel

funnel capacity 15 mL, disc diam. 20 mm, porosity 4-8 µm



Z546429

Aldrich® Buchner funnel

funnel capacity 2 mL, disc diam. 10 mm, porosity 25-50 µm



Z546615

Aldrich® Buchner funnel

funnel capacity 140 mL, disc diam. 65 mm, porosity 10-20 µm



Z546534

Aldrich® Buchner funnel

funnel capacity 140 mL, disc diam. 65 mm, porosity 25-50 µm



Z546461

Aldrich® Buchner funnel

funnel capacity 15 mL, disc diam. 20 mm, porosity 10-20 µm



Z546542

Aldrich® Buchner funnel

funnel capacity 30 mL, disc diam. 30 mm, porosity 70-100 µm



Z546593

Aldrich® Buchner funnel

funnel capacity 60 mL, disc diam. 40 mm, porosity 10-20 µm



Z546674

Aldrich® Buchner funnel

funnel capacity 600 mL, disc diam. 90 mm, porosity 145-175 µm



Z547670

Aldrich® Buchner funnel

funnel capacity 4,000 mL, disc diam. 150 mm, porosity 145-175 µm



Z546682

Aldrich® Buchner funnel

funnel capacity 600 mL, disc diam. 90 mm, porosity 70-100 µm



Z547107

Aldrich® Buchner funnel

funnel capacity 30 mL, disc diam. 30 mm, porosity 25-50 µm



Z547123

Aldrich® Buchner funnel

funnel capacity 4,000 mL, disc diam. 150 mm, porosity 70-100 µm



Z546607

Aldrich® Buchner funnel

funnel capacity 60 mL, disc diam. 40 mm, porosity 4-8 µm

Z546828

Aldrich® Buchner funnel

funnel capacity 4,000 mL, disc diam. 150 mm, porosity 25-50 µm



Z550027

Aldrich® Buchner funnel

funnel capacity 60 mL, disc diam. 40 mm, porosity 145-175 µm



Z546712

Aldrich® Buchner funnel

funnel capacity 1,500 mL, disc diam. 120 mm, porosity 145-175 µm



Z546658

Aldrich® Buchner funnel

funnel capacity 350 mL, disc diam. 80 mm, porosity 25-50 µm



Z550094

Aldrich® Buchner funnel

funnel capacity 6,000 mL, disc diam. 150 mm, porosity 145-175 µm



Z547069

Aldrich® Buchner funnel

funnel capacity 600 mL, disc diam. 90 mm, porosity 10-20 µm



Z546720

Aldrich® Buchner funnel

funnel capacity 1,500 mL, disc diam. 120 mm, porosity 70-100 µm



Z547131

Aldrich® Buchner funnel

funnel capacity 6,000 mL, disc diam. 150 mm, porosity 70-100 µm



Z546526

Aldrich® Buchner funnel

funnel capacity 140 mL, disc diam. 65 mm, porosity 70-100 µm



Z547115

Aldrich® Buchner funnel

funnel capacity 60 mL, disc diam. 40 mm, porosity 70-100 µm



Z546739

Aldrich® Buchner funnel

funnel capacity 1,500 mL, disc diam. 120 mm, porosity 25-50 µm



Z550035

Aldrich® Buchner funnel

funnel capacity 140 mL, disc diam. 65 mm, porosity 4-8 µm



Z546666

Aldrich® Buchner funnel

funnel capacity 350 mL, disc diam. 80 mm, porosity 10-20 µm



Z546445

Aldrich® Buchner funnel

funnel capacity 2 mL, disc diam. 10 mm, porosity 4-8 µm



Z547050

Aldrich® Buchner funnel

funnel capacity 60 mL, disc diam. 40 mm, porosity 25-50 µm



Z546496

Aldrich® Buchner funnel

funnel capacity 30 mL, disc diam. 30 mm, porosity 145-175 µm



Z546453

Aldrich® Buchner funnel

funnel capacity 15 mL, disc diam. 20 mm, porosity 25-50 µm



Z550043

Aldrich® Buchner funnel

funnel capacity 350 mL, disc diam. 80 mm, porosity 4-8 µm



Z550019

Aldrich® Buchner funnel

funnel capacity 6,000 mL, disc diam. 150 mm, porosity 10-20 µm



Z546437

Aldrich® Buchner funnel

funnel capacity 2 mL, disc diam. 10 mm, porosity 10-20 µm

Z546488

Aldrich® Buchner funnel

funnel capacity 15 mL, disc diam. 20 mm, porosity 4-8 µm



Z546429

Aldrich® Buchner funnel

funnel capacity 2 mL, disc diam. 10 mm, porosity 25-50 µm



Z546615

Aldrich® Buchner funnel

funnel capacity 140 mL, disc diam. 65 mm, porosity 10-20 µm



Z546534

Aldrich® Buchner funnel

funnel capacity 140 mL, disc diam. 65 mm, porosity 25-50 µm



Z546461

Aldrich® Buchner funnel

funnel capacity 15 mL, disc diam. 20 mm, porosity 10-20 µm



Z548200

Aldrich® Buchner funnel with joint

capacity 1,500 mL, disc diam. 120 mm, porosity 10-20 µm, joint: ST/NS 24/40



Z547018

Aldrich® Buchner funnel with joint

capacity 350 mL, disc diam. 80 mm, porosity 25-50 µm, joint: ST/NS 24/40



Z548111

Aldrich® Buchner funnel with joint

capacity 600 mL, disc diam. 90 mm, porosity 10-20 µm, joint: ST/NS 24/40



Z546984

Aldrich® Buchner funnel with joint

capacity 350 mL, disc diam. 80 mm, porosity 145-175 µm, joint: ST/NS 24/40



Z548103

Aldrich® Buchner funnel with joint

capacity 600 mL, disc diam. 90 mm, porosity 25-50 µm, joint: ST/NS 24/40



Z546992

Aldrich® Buchner funnel with joint

capacity 350 mL, disc diam. 80 mm, porosity 70-100 µm, joint: ST/NS 24/40



Z548197

Aldrich® Buchner funnel with joint

capacity 1,500 mL, disc diam. 120 mm, porosity 25-50 µm, joint: ST/NS 24/40



Z548073

Aldrich® Buchner funnel with joint

capacity 600 mL, disc diam. 90 mm, porosity 145-175 μm , joint: ST/NS 24/40



Z547034

Aldrich® Buchner funnel with joint

capacity 350 mL, disc diam. 80 mm, porosity 4-8 μm , joint: ST/NS 24/40



Z548189

Aldrich® Buchner funnel with joint

capacity 1,500 mL, disc diam. 120 mm, porosity 70-100 μm , joint: ST/NS 24/40



Z546917

Aldrich® Buchner funnel with joint

capacity 60 mL, disc diam. 40 mm, porosity 4-8 μm , joint: ST/NS 24/40



Z546933

Aldrich® Buchner funnel with joint

capacity 140 mL, disc diam. 65 mm, porosity 70-100 μm , joint: ST/NS 24/40



Z546879

Aldrich® Buchner funnel with joint

capacity 60 mL, disc diam. 40 mm, porosity 145-175 μm , joint: ST/NS 24/40



Z547743

Aldrich® Buchner funnel with joint

capacity 30 mL, disc diam. 30 mm, porosity 4-8 μm , joint: ST/NS 14/20



Z547662

Aldrich® Buchner funnel with joint

capacity 15 mL, disc diam. 20 mm, porosity 4-8 μm , joint: ST/NS 14/20

Z547840

Aldrich® Buchner funnel with joint

capacity 30 mL, disc diam. 30 mm, porosity 10-20 μm , joint: ST/NS 24/40



Z547719

Aldrich® Buchner funnel with joint

capacity 30 mL, disc diam. 30 mm, porosity 70-100 μm , joint: ST/NS 14/20



Z546941

Aldrich® Buchner funnel with joint

capacity 140 mL, disc diam. 65 mm, porosity 25-50 μm , joint: ST/NS 24/40



Z547700

Aldrich® Buchner funnel with joint

capacity 30 mL, disc diam. 30 mm, porosity 145-175 μm , joint: ST/NS 14/20



Z547611

Aldrich® Buchner funnel with joint

capacity 140 mL, disc diam. 65 mm, porosity 10-20 μm , joint: ST/NS 24/40



Z547565

Aldrich® Buchner funnel with joint

capacity 2 mL, disc diam. 10 mm, porosity 25-50 μm , joint: ST/NS 14/20



Z547646

Aldrich® Buchner funnel with joint

capacity 15 mL, disc diam. 20 mm, porosity 25-50 μm , joint: ST/NS 14/20



Z547735

Aldrich® Buchner funnel with joint

capacity 30 mL, disc diam. 30 mm, porosity 10-20 μm , joint: ST/NS 14/20



Z547573

Aldrich® Buchner funnel with joint

capacity 2 mL, disc diam. 10 mm, porosity 10-20 μm , joint: ST/NS 14/20



Z546887

Aldrich® Buchner funnel with joint

capacity 60 mL, disc diam. 40 mm, porosity 70-100 μm , joint: ST/NS 24/40



Z547727

Aldrich® Buchner funnel with joint

capacity 30 mL, disc diam. 30 mm, porosity 25-50 μm , joint: ST/NS 14/20



Z546976

Aldrich® Buchner funnel with joint

capacity 140 mL, disc diam. 65 mm, porosity 4-8 μm , joint: ST/NS 24/40



Z546895

Aldrich® Buchner funnel with joint

capacity 60 mL, disc diam. 40 mm, porosity 25-50 μm , joint: ST/NS 24/40



Z547816

Aldrich® Buchner funnel with joint

capacity 30 mL, disc diam. 30 mm, porosity 145-175 μm , joint: ST/NS 24/40



Z547824

Aldrich® Buchner funnel with joint

capacity 30 mL, disc diam. 30 mm, porosity 70-100 µm, joint: ST/NS 24/40



Z547581

Aldrich® Buchner funnel with joint

capacity 2 mL, disc diam. 10 mm, porosity 4-8 µm, joint: ST/NS 14/20



Z547654

Aldrich® Buchner funnel with joint

capacity 15 mL, disc diam. 20 mm, porosity 10-20 µm, joint: ST/NS 14/20



Z547026

Aldrich® Buchner funnel with joint

capacity 350 mL, disc diam. 80 mm, porosity 10-20 µm, joint: ST/NS 24/40



Z547859

Aldrich® Buchner funnel with joint

capacity 30 mL, disc diam. 30 mm, porosity 4-8 µm, joint: ST/NS 24/40



Z546909

Aldrich® Buchner funnel with joint

capacity 60 mL, disc diam. 40 mm, porosity 10-20 µm, joint: ST/NS 24/40

Z553093

Aldrich® Buchner funnel with joint and SafetyBarb® hose connector

capacity 60 mL, porosity 10-20 µm



Z554464

Aldrich® Buchner VerSAfunnel™

capacity 350 mL, disc diam. 50 mm, porosity 145-175 µm



Z554294

Aldrich® Buchner VerSAfunnel™

capacity 30 mL, disc diam. 24 mm, porosity 70-100 µm



Z554405

Aldrich® Buchner VerSAfunnel™

capacity 140 mL, disc diam. 50 mm, porosity 145-175 µm



Z554251

Aldrich® Buchner VerSAfunnel™

capacity 30 mL, disc diam. 24 mm, porosity 4-8 µm



Z554448

Aldrich® Buchner VerSAfunnel™

capacity 350 mL, disc diam. 50 mm, porosity 25-50 µm



Z554936

Aldrich® Buchner VerSAfunnel™ bottom

for 140mL and 350mL



Z554871

Aldrich® Buchner VerSAfunnel™ top

for 140mL and 350mL



Z545368

Aldrich® dual-bank vacuum manifold with glass hosebarb stopcocks and jointed ends

joint: ST/NS 14/20, positions, 4



Z545325

Aldrich® dual-bank vacuum manifold with glass hosebarb stopcocks and jointed ends

positions, 4, joint: 24/40



Z545392

Aldrich® dual-bank vacuum manifold with PTFE valves with jointed ends

joint: ST/NS 24/40, positions, 4



Z545406

Aldrich® dual-bank vacuum manifold with PTFE valves with jointed ends

joint: ST/NS 24/40, positions, 5



Z284726

Aldrich® fritted filter funnel

capacity 6 mL, tube L 65 mm, thread size 18-415



Z284734

Aldrich® fritted filter funnel

capacity 20 mL, tube L 85 mm, thread size 28-400



Z284742

Aldrich® fritted filter funnel

capacity 60 mL, tube L 132 mm, thread size 38-430



Z283320

Aldrich® fritted filter funnel for solid-phase synthesis
capacity 60 mL



Z283312

Aldrich® fritted filter funnel for solid-phase synthesis
capacity 30 mL



Z283304

Aldrich® fritted filter funnel for solid-phase synthesis
capacity 15 mL



Z547174

Aldrich® jacketed Buchner funnel
funnel capacity 600 mL, disc diam. 90 mm, porosity 10-20 µm



Z547417

Aldrich® jacketed Buchner funnel
funnel capacity 1,500 mL, disc diam. 120 mm, porosity 25-50 µm

Z547425

Aldrich® jacketed Buchner funnel
funnel capacity 1,500 mL, disc diam. 120 mm, porosity 10-20 µm



Z547387

Aldrich® jacketed Buchner funnel
funnel capacity 600 mL, disc diam. 90 mm, porosity 70-100 µm



Z547085

Aldrich® jacketed Buchner funnel
funnel capacity 600 mL, disc diam. 90 mm, porosity 25-50 µm



Z517755

Aldrich® jacketed Buchner funnel with joint
capacity 60 mL, disc diam. 40 mm, porosity 25-50 µm, joint: ST/NS 29/32



Z547166

Aldrich® jacketed Buchner funnel with joint
capacity 350 mL, disc diam. 80 mm, porosity 145-175 µm, joint: ST/NS 24/40



Z550396

Aldrich® jacketed Buchner funnel with joint

capacity 60 mL, disc diam. 40 mm, porosity 25-50 μm , joint: ST/NS 24/40



Z550736

Aldrich® jacketed Buchner funnel with joint

capacity 600 mL, disc diam. 90 mm, porosity 25-50 μm , joint: ST/NS 24/40



Z550515

Aldrich® jacketed Buchner funnel with joint

capacity 140 mL, disc diam. 65 mm, porosity 10-20 μm , joint: ST/NS 24/40



Z550523

Aldrich® jacketed Buchner funnel with joint

capacity 140 mL, disc diam. 65 mm, porosity 4-8 μm , joint: ST/NS 24/40



Z550485

Aldrich® jacketed Buchner funnel with joint

capacity 140 mL, disc diam. 65 mm, porosity 145-175 μm , joint: ST/NS 24/40



Z550388

Aldrich® jacketed Buchner funnel with joint

capacity 60 mL, disc diam. 40 mm, porosity 70-100 μm , joint: ST/NS 24/40



Z517356

Aldrich® large capacity fritted filter funnel

capacity 2 L, joint: ST/NS 29/32



Z517348

Aldrich® large capacity fritted filter funnel

capacity 1 L, joint: ST/NS 29/32



Z517291

Aldrich® large capacity fritted filter funnel

capacity 2 L, joint: ST/NS 24/40



Z517283

Aldrich® large capacity fritted filter funnel

capacity 1 L, joint: ST/NS 24/40



Z219738

Aldrich® manifold with trap

male joint: ST/NS 14/20 (1), male Joints: ST/NS 24/40 (2), PTFE valves

Z561797
Aldrich® single bank manifold with 1 hose connection and 1 closed end positions, 5, bore size 4 mm, glass stopcock

Z748080
Aldrich® single bank manifold with 1 hose connection and 1 closed end positions, 4, bore size 4 mm, PTFE stopcock

Z561770
Aldrich® single bank manifold with 1 hose connection and 1 closed end positions, 3, bore size 4 mm, glass stopcock

Z561789
Aldrich® single bank manifold with 1 hose connection and 1 closed end positions, 4, bore size 4 mm, glass stopcock

Z532169
Aldrich® single bank manifold with glass stopcocks
Manifold with vacuum-gauge port, positions, 3

Z532185
Aldrich® single bank manifold with glass stopcocks
Manifold with vacuum-gauge port, positions, 5

Z532150
Aldrich® single bank manifold with glass stopcocks
Standard manifold, positions, 5

Z532134
Aldrich® single bank manifold with glass stopcocks
Standard manifold, positions, 3

Z532142
Aldrich® single bank manifold with glass stopcocks
Standard manifold, positions, 4

Z532177
Aldrich® single bank manifold with glass stopcocks
Manifold with vacuum-gauge port, positions, 4

Z568481
Aldrich® single bank manifold with PTFE stopcocks

4 positions



Z568503

Aldrich® single bank manifold with PTFE stopcocks

5 positions



Z568473

Aldrich® single bank manifold with PTFE stopcocks

3 positions



Z532258

Aldrich® single bank manifolds with high-vacuum PTFE valves

manifold with vacuum-gauge port, positions, 5



Z532231

Aldrich® single bank manifolds with high-vacuum PTFE valves

manifold with vacuum-gauge port, positions, 4



Z532223

Aldrich® single bank manifolds with high-vacuum PTFE valves

manifold with vacuum-gauge port, positions, 3



Z532193

Aldrich® single bank manifolds with high-vacuum PTFE valves

standard manifold, positions, 3



Z532207

Aldrich® single bank manifolds with high-vacuum PTFE valves

standard manifold, positions, 4



Z532215

Aldrich® single bank manifolds with high-vacuum PTFE valves

standard manifold, positions, 5



Z245577

Aldrich® stainless steel Buchner funnel

funnel O.D. 25 cm



Z245585

Aldrich® stainless steel Buchner funnel

funnel O.D. × I.D. 50.5 cm × 50.0 cm



Z418501

Aldrich® System 45™ vessel with cap and fritted disc
capacity 20 mL



Z418536

Aldrich® System 45™ vessel with cap and fritted disc
capacity 125 mL



Z418544

Aldrich® System 45™ vessel with cap and fritted disc
capacity 250 mL

Z418528

Aldrich® System 45™ vessel with cap and fritted disc
capacity 60 mL



Z530689

Aldrich® vacuum manifold with joints
positions, 5, joint: ST/NS 14/20



Z517542

Aldrich® vacuum manifold with joints
positions, 5, joint: ST/NS 29/32



Z530662

Aldrich® vacuum manifold with joints
positions, 3, joint: ST/NS 14/20



Z530700

Aldrich® vacuum manifold with joints
positions, 4, joint: ST/NS 24/40



Z530697

Aldrich® vacuum manifold with joints
positions, 3, joint: ST/NS 24/40



Z517534

Aldrich® vacuum manifold with joints
positions, 4, joint: ST/NS 29/32



Z530670

Aldrich® vacuum manifold with joints

positions, 4, joint: ST/NS 14/20



Z530719

Aldrich® vacuum manifold with joints

positions, 5, joint: ST/NS 24/40



Z173185

Filter funnel with drip-tip and two glass stopcocks, one on side-arm

capacity 75 mL, male joint: ST/NS 14/20, female joint: ST/NS 14/20



Z220140

Filter funnel with drip-tip and two side-arms each equipped with a glass stopcock

joint: ST/NS 14/20 M, capacity 100 mL



Z373427

LiposoFast Liposome Factory

pore size 200 nm, polycarbonate membrane



Z358231

Nalgene® filter unit receivers

bottle capacity 150 mL



Z358258

Nalgene® filter unit receivers

bottle capacity 250 mL



Z358274

Nalgene® filter unit receivers

bottle capacity 1000 mL



M4664

Nalgene® vacuum manifold

autoclavable



Z116246

Scienceware® table-top Buchner funnel

I.D. 24 in., porosity perforated, Fixed plate



Z116238

Scienceware® table-top Buchner funnel

I.D. 18 in., porosity perforated, Fixed plate



Z116211

Scienceware® table-top Buchner funnel

I.D. 10 1/4 in., porosity perforated, Fixed plate



Z420522

Scienceware® table-top Buchner funnel

I.D. 36 in., porosity coarse, Removable plate

Z290416

Sigma-Aldrich® vacuum filtration assembly

for 47 mm filters with glass support, NS 40/35 joints, 4 L flask (included)



Z290467

Sigma-Aldrich® vacuum filtration assembly

for 25 mm filters with glass support, #5 stopper, 125 mL flask (included)



Z290491

Sigma-Aldrich® vacuum filtration assembly

for 47 mm filters with stainless steel screen, #8 stopper, 1 L flask (included)



Z290432

Sigma-Aldrich® vacuum filtration assembly

for 47 mm filters with glass support, #8 stopper, 1 L flask (included)



Z290505

Sigma-Aldrich® vacuum filtration assembly

for 47 mm filters with stainless steel screen, #8 stopper, same as Z290432 but without side arm flask



Z290440

Sigma-Aldrich® vacuum filtration assembly

for 47 mm filters with glass support, #8 stopper, same as Z290432 but without filtration flask



Z290475

Sigma-Aldrich® vacuum filtration assembly

for 25 mm filters with glass support, #5 stopper, same as Z290467 but without filtration flask



Z290424

Sigma-Aldrich® vacuum filtration assembly

for 90 mm filters with glass support, NS 40/35 joints, 4 L flask (included)



Z290408

Sigma-Aldrich® vacuum filtration assembly

for 47 mm filters with glass support, NS 40/35 joints, 1 L flask (included)



Z530727

Space Saver vacuum manifold

positions, 3, L 225 mm



Z530735

Space Saver vacuum manifold

positions, 5, L 305 mm



Z530743

Space Saver vacuum manifold

positions, 8, L 420 mm



Z290726

Vacuum filtration assembly funnel stems

glass membrane (support), membrane diam. 25 mm, connector for stopper



Z290688

Vacuum filtration assembly funnel stems

glass membrane (support), membrane diam. 47 mm, connector for stopper



Z290750

Vacuum filtration assembly funnel stems

no membrane support, membrane diam. 47 mm, connector for stopper



Z290602

Vacuum filtration assembly funnel stems

glass membrane (support), membrane diam. 47 mm, connector for 40/35 joint (fritted glass support with side arm)



Z290653

Vacuum filtration assembly funnel stems

glass membrane (support), membrane diam. 90 mm, connector for 40/35 joint (fritted glass support with side arm)



Z290769

Vacuum filtration assembly funnel stems

stainless steel membrane (support), membrane diam. 47 mm, connector for stopper



Z290548

Vacuum filtration assembly funnel tops

Funnel top, funnel capacity 500 mL



Z290645

Vacuum filtration assembly funnel tops

Funnel top, funnel capacity 1000 mL

Z290645

Vacuum filtration assembly funnel tops

Funnel top, funnel capacity 1000 mL



Z290696

Vacuum filtration assembly funnel tops

Funnel top, funnel capacity 15 mL



Z290548

Vacuum filtration assembly funnel tops

Funnel top, funnel capacity 500 mL



Z290777

Vacuum filtration assembly replacement parts

PTFE gasket



Z290742

Vacuum filtration assembly replacement parts

#5 silicone stopper



Z290572

Vacuum filtration assembly replacement parts

#8 silicone stopper



Z290564

Vacuum filtration assembly replacement parts

aluminum clamp for 47mm assemblies



Z290734

Vacuum filtration assembly replacement parts

aluminum clamp for 25 mm assemblies



Z290661

Vacuum filtration assembly replacement parts

aluminum clamp for 90 mm assemblies



Z171727

Vacuum-jacketed filter funnel

200 mL, 50 mm frit, 25 to 50 μ m porosity

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Петрозаводск (8142)55-98-37
Псков (8112)59-10-37

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Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
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