Our Advantages

* Global Supply Chain and Efficient Customer Service

* Customer QA and Stable Product Supply

* OEM Optin, Branding Service, Private Labeling Service

* Quick Dilivery, 5-7 Days Guaranteed

* Most Competitive Price

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Membrane Solutions LLC

Product Guidance

2014-2016 LabFiltration Consumables and Supplies
HPLC Accessories | Sample Preparation | Life Science

Membrane Solutions

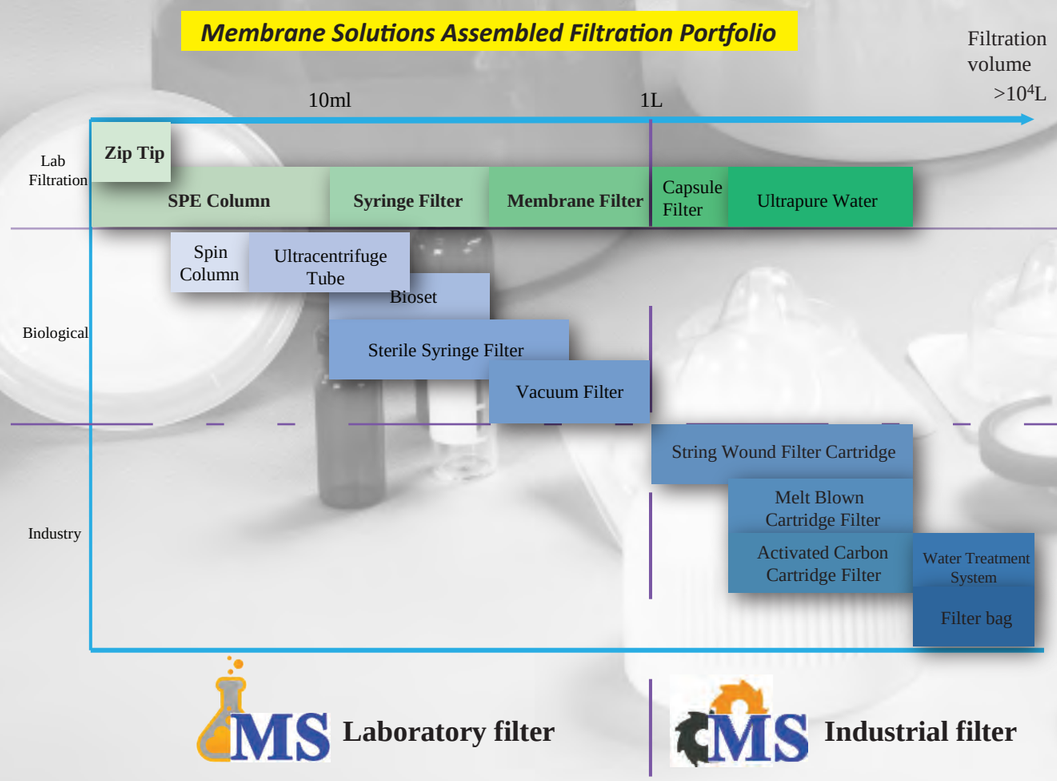
Membrane , For Better Tomorrow

Membrane Solutions LLC

Membrane Solutions LLC (MS) is one of world's leading suppliers in consumable products for both laboratorial and industrial applications. MS was founded by industrial veterans with average 20 years' experience and deep domain knowledge. Since inception, MS has focused on high performance liquid filtration solutions and other related fields. Today, MS has built solid footings in three business units - Sample Preparation, Life Science and Industrial Process. MS works with 200 distributors in 80 countries with a rich portfolio of over 3,000 products.

From innovation to manufacturing, Membrane Solutions is expert in efficiency optimization. As a result, MS has clearly established our brand name as alternative of Top Brand in disposable commodities. In the past years, MS has been OEM Services of Choice covering 20 product categories for five key accounts, two of which are exclusive. With strategic emphasis on product innovation/design, MS has developed patent technologies to service a wide range of applications, from chemistry analysis to cell culture, and from laboratories to industries.

MS is the only one among China lab suppliers who carries FDA registration, ISO 9001 and CE marker. Membrane Solutions is yearning to collaborate with multinational corporations by providing quality products with cost efficiency.



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HPLC Accessories / Sample Preparation

Life Science Consumables

HPLC Accessories / Sample Preparation

Syringe Filter • Membrane Filter • SPE Column • Sample Vials




Syringe Filter

MS® Syringe Filter

Introduction

MS® provides high quality syringe filters, well packed and offered at a fair and competitive price. Considered as one of the most popular products at Membrane Solutions, the features are follows: 1. Available with various types syringe filter 2. Supply in various different membrane materials 3. Exclusive design for OEM project 4. Unparalleled flux 5. High performance 6. Competitive prices

MS® syringe filters have been widely applied to HPLC sample preparation, routine QC analysis, dissolution testing, food analysis, biofuel analysis and environmental samples.Also,biological filtration application is another purpose of filer utilization.You can find more infomation in our Life Science Consumables part.

Filtration Guidance

Filtration Media	Main features	Application
Nylon	• Hydrophilic property • No need to moist beforehand • Strong tenacity and adsorbability • Applicable PH value 3-12	• Chemicals filtration • Organic solvent / Medicine filtration • Beverage filtration • Electic semiconductor industrial water filtration
CA	• Lowest protein binding • Uniform aperture • Hydrophilic property • Applicable PH value 4-8	• Aqueous protein solutions as low protein binding • Groundwater filtration as Nitrate-free
PES	• High filtration speed • Low extractables • Lowest protein binding • Applicable PH value 1-14	• Sterile filtering protein solution • Tissue culture media filtration • Tissue culture additive filtration
PVDF	• Good heat--endurance and chemical stability • PVDF can be either hydrophobic or hydrophilic • Good chemical compatibility • Applicable PH value 1-14	• Gas filtration • Vapor filtration • High-temperature filtration • Food industry • Medicine filtration

Syringe Filter

MS® Syringe Filter

Filtration Media	Main features	Application
PTFE	• Broad chemical compatibility • Strong chemical stability and inertia • PTFE can be either hydrophobic or hydrophilic • Applicable PH value 1-14	• Organic solvent with strong chemical causticity filtration • Strong acid solvent filtration • Alkali solvent filtration
Glass Fiber	• Hydrophobic property • Good mechanical strength • Large Flux • Applicable PH value 4-14	• Pre-filter • High solid solvent filtration
MCE	• Uniform aperture • NO medium dropping • Thin texture • Little resistance • High filtration speed • Little absorption • Applicable PH value 4-8	• Gas particulate and bacteria filtration and then inspect them • Oil particulate and bacteria filtration and inspect them • Alcohol particulate and bacteria filtration and inspect them • Other solvent particulate and bacteria filtration and inspect them
PP	• Hydrophobic property • Good chemical compatibility • Large Flux • Applicable PH value 1-14	• Pre-filter • High solid solvent filtration

*Variety of diameters and pore sizes can be customized to meet the requirements of customer. Please feel free to contact local agency for more details.

Ordering information:

SF NY 025 022 N G

- G: GF prefilter.P： PP prefilter
- N: non sterile/ S: sterile
- Pore size: 0.22,0.45μm
- Diameter: 13mm,25mm
- NY: nylon
- SF: syringe filter

Syringe Filter

Superpure™ Syringe Filter

Introduction

Superpure™ offers unsurpassed quality, consistency and reliability of result to increase sample throughput while reducing thumb pressure. Under designed state-of-art injection technology, syringe filter is produced for 17mm and 30mm. HPLC certification is owned for each batch.

The syringe filters are available in 0.22μm or 0.45μm pore sizes with a variety of membranes materials:Nylon,PES,CA,PTFE, MCE and PVDF for your reference.

Feature

- Color-coding: easier to identify the filter membrane and pore size
- Larger filtration areas: increase sample throughout
- High resolutions print: clearly marked

Application

- HPLC sample preparation
- Routine QC analysis
- Content uniformity
- Removal of protein precipitates
- Dissolution testing
- Food analysis

Catalogue No	Membrane	Poresize（μm）	Quantity/pack（pcs）
Superpure™ Syringe Filters PES			
SFPES017022N	PES	0.22	100
SFPES017045N	PES	0.45	100
SFPES030022N	PES	0.22	100
SFPES030045N	PES	0.45	100

*Variety of membranes are available. Please feel free to contact local agency for more details.

Syringe Filter

Simplepure™ Syringe filter

Introduction

Simplepure™ Syringe filters are available in many different pore sizes and are made with a wide variety of membrane filters. With virgin medical polypropylene housings material, MS applies the advanced welding technology to design this type of syringe filter.

Feature

- Application compatibility: various range of filtration media meets diverse application requirement
- Minimum sample hold-up volume: syringe filters' housings are specifically designed to maximize sample recovery
- Convenient: clearly marked with an identifying code to denote pore size, membrane material

Application

- HPLC sample preparation
- Routine QC analysis
- Content uniformity
- Removal of protein precipitates
- Dissolution testing
- Food analysis
- Biofuel analysis
- Environmental samples

Catalogue No	Membrane	Poresize（μm）	Quantity/pack（pcs）
Simplepure™ Syringe Filters NY			
SFNY013022N	Nylon	0.22	100
SFNY013045N	Nylon	0.45	100
SFNY025022N	Nylon	0.22	100
SFNY025045N	Nylon	0.45	100

*Variety of membranes are available. Please feel free to contact local agency for more details.

Syringe Filter

ChromPure™ Syringe Filters

Introduction

Chromepure™ units offer unsurpassed quality, consistency, and reliability of results to accelerate the filtration process. These syringe-operated filters are excellent for the clarification of aqueous solutions (column eluates, HPLC samples, etc.). The unique design of gear edge with high quality of membrane contributes easy-handling accompanying with higher performance on experiments.

Feature

- Special design: low extractable, low binding
- Color-coding: easy to identify the filter membrane and pore size
- Automated: compliant manufacturing process
- Sterile package: minimize the risk of contamination and meet pharmaceutical standards

Application

- HPLC, UHPLC, IC, GC, Dissolution testing
- HPLC sample preparation
- General particulate removal
- Routine QC analysis
- Environmental samples
- Biofuel analysis
- Food analysis

Catalogue No	Membrane	Poresize（μm）	Quantity/pack（pcs）
Chrompure™ Syringe Filters PTFE			
SFPTFE013022NC	PTFE	0.22	100
SFPTFE013045NC	PTFE	0.45	100
SFPTFE025022NC	PTFE	0.22	100
SFPTFE025045NC	PTFE	0.45	100

*Variety of membranes are available. Please feel free to contact local agency for more details.

Syringe Filter

Bepure™ Syringe Filters

Introduction

Bepure™ Syringe filters have increased the flux and velocity of sample preparation. The improvement of flow path decreased the dead volume. All these factors make them more suitable for Lab Filtration especially for HPLC sample preparation. Bepure™ syringe filter units are available in 17 mm and 33 mm housing with seven kinds of membranes: NY/PES/PTFE/Hydrop hilic PTFE/PVDF/Hydrophilic PVDF /CA.

The new range Bepure™ 33mm color-coded syringe filter introduced hydrophilic membrane which contributes easy-handling accompanying with higher performance on experiments.

Feature

- Time-saving: high velocity and flux, reduce analysis time
- Higher pressure: a maximum housing pressure more than 10 bar (145 psi)
- Low hold-up volume: less than 80 µl
- Good reproducibility
- Color-coding: easy identification by membrane and pore size

Application

- HPLC sample preparation
- Routine QC analysis
- Content uniformity
- Removal of protein precipitates
- Dissolution testing
- Food analysis
- Biofuel analysis
- Environmental samples

Catalogue No	Membrane	Poresize（µm）	Quantity/pack（pcs）
Bepure™ Syringe Filters Hydrophilic PVDF			
SFPVDF017022NL	Hydrophilic PVDF	0.22	100
SFPVDF017045NL	Hydrophilic PVDF	0.45	100
SFPVDF033022NL	Hydrophilic PVDF	0.22	100
SFPVDF033045NL	Hydrophilic PVDF	0.45	100

*Variety of membranes are available. For details, Please feel free to contact local agency for more details.

Membrane Filter

MS® Nylon Membrane Filter

Introduction

MS® Nylon membrane filter ia a supported, naturally hydrophilic membrane designed to wet out evenly and retain its superior strength during use in general filtration or medical assays.Nylon membrane disc diameters range from 13 mm to 293 mm, pore size from 0.1µm to 5.0µm.

Feature

- May be sterilized by gamma irradiation, EO, or autoclaving
- High Porosity
- High stable chemical compatibility at pH3-14 range, can withstand a majority solvent and alkaline solutions
- Good mechanical strength, strong adsorption

Application

- Sample Preparation
- General clean and filtration
- Environmental Monitoring and Analysis
- Pharmaceutical Products analysis
- Chromatography and Mass Spec Sample Preparation

Cat.No	Description	Pack(qty/case)
Nylon Membrane Filter		
MFNY047022	Pore size0.22um, Diameter 47mm	200
MFNY142045	Pore size0.45um, Diameter 142mm	50

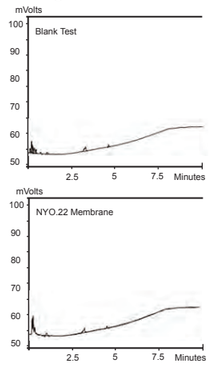
* Variety of membranes, diameters and pore sizes can be customized to meet the requirements of customer. Roller membrane is also avaiable.Please feel free to contact local agency for more details.

Ordering information:

MF NY 047 022 N

- N: non sterile/ S: sterile
- Pore size: 0.22,0.45µm
- Diameter: 47mm,142mm
- NY: nylon
- MF: Membrane filter

Chromatograms of the effluents



MS® Polyethersulfone(PES) Membrane Filter

Introduction

MS® PES membrane is hydrophilic and constructed from polymer membrane. It is designed to remove particulates during general filtration, and its low protein and drug binding characteristics make it ideally suited for use in life science applications. PES membrane disc diameters range from 13 mm to 250 mm, pore size from 0.01μm to 0.65μm.

Feature

- Inherently hydrophilic
- Low protein binding characteristics
- High flow rate
- Superior thermo stability

Application

- Water filtration
- Especial chemical reagent filtration
- Liquid of high temperature filtration

Cat.No	Description	Pack(qty/case)
PES Membrane Filter		
MFPES142022	Pore size0.22um, Diameter 142mm	50
MFPES047045	Pore size0.45um, Diameter 47mm	200

MS® Mixed Cellulose Esters(MCE) Membrane Filter

Introduction

MS® Mixed cellulose ester membrane filters are composed of cellulose acetate and cellulose nitrate. Because MCE membrane is biological inert, it's one of the most widely used membranes in analytical and research applications. MS also supplies sterile gridded membrane filters with or without pads.

MS® Mixed Cellulose Esters(MCE) Membrane Filter

Feature

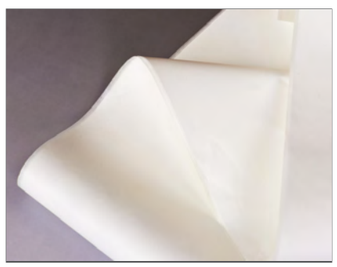
- High porosity
- High protein binding can be blocked by pretreatment or utilized in applications
- High purity: triton-free
- Sterile options are available for critical applications
- Biologically inert with good thermal stability
- High degree of internal surface area for greater adsorption of product

Application

- Sterilizing filtration, bioassays
- Clarification of aqueous solutions, particle removal and analysis, microbiology analysis
- QC of fluid holding tanks, fluid monitoring, air monitoring, particle collection and analysis.

Cat.No	Description	Pack(qty/case)
MCE Membrane Filter		
MFMCE037022	Pore size0.22um, Diameter 37mm	200
MFMCE293045	Pore size0.45um, Diameter293mm	25

MS® PTFE Membrane Filter



Introduction

MS® Polytetrafluoroethylene (PTFE) membranes consists of a pure PTFE tortuous pore structure. PTFE membrane filters are naturally hydrophobic, they are very useful for aerosol sampling, air venting and gas filtration, especially in environments also containing water vapor. For filtering aqueous solutions, PTFE requires pre-wetting with alcohol to establish flow with reasonable pressure differentials. MS PTFE membrane disc diameters range from 13 mm to 142 mm, pore size from 0.1μm to 5.0μm.

MS® PTFE Membrane Filter

Feature

• PTFE membrane with supporting layer polyester or polypropylene
• Effectively filtrate microorganism and other particulates
• Wide chemical compatibility
• High temperature resistance
• Low starting resistance

Application

• Filtration of strong acids and aggressive solutions
• Venting application
• Phase separations
• Aerosol samplings

Cat.No	Description	Pack(qty/case)
Hydrophobic PTFE		
MFPTFE090022B	Pore size0.22um, Diameter 90mm	100
Hydrophilic PTFE		
MFPTFE047045L	Pore size0.22um, Diameter 47mm	200

MS® PVDF Hydrophobic Membrane Filter

Introduction

MS® PVDF membrane filter, particulally microporous membranes, can be prepared to exhibit high efficiency for particle removal. PVDF membrane has a low critical surface energy and conventional, hydrophobic, microporous PVDF membranes will not wet with aqueous fluids. MS PVDF membrane disc diameters range from 13 mm to 142 mm, pore size from 0.1μm to 5.0μm.

Feature

• Wide chemical compatibility
• Excellent mechanical properties
• High temperature capabilities and excellent ageing resistance
• Easy processing by extrusion, injection, compression, blow molding, solution processe

Application

• Chemical Process industry
• Off shore oil industry
• High purity fluid transportion
• Wire and cables

MS® PVDF Hydrophobic Membrane Filter

Cat.No	Description	Pack(qty/case)
Hydrophobic PVDF		
MFPVDF047022	Pore size0.22um, Diameter 47mm	200
MFPVDF047045	Pore size0.45um, Diameter 47mm	200

MS® Cellulose Acetate Membrane Filter

Introduction

MS® CA membrane filters are composed of pure cellulose acetate, modified to offer researchers the lowest binding filters available. Due to the extremely low binding characteristics, these filters provide higher throughputs than other competitive offerings and reduce filter changes when filtering proteinaceous solutions. CA membranes have different kinds of pore size range from 0.2um to 3.0um.

Feature

• Lowest binding material available
• Hydrophilic
• High throughput
• Stable strength and dimension
• Uniform pore structure

Application

• Protein and enzyme filtration, sterilization
• Biological fluid filtration, sterilization
• Tissue culture media sterilization
• Diagnostic cytology
• Receptor binding studies

Cat.No	Description	Pack(qty/case)
CA Membrane Filter		
MFCA025022	Pore size0.22um, Diameter 25mm	200
MFCA090045	Pore size0.45um, Diameter 90mm	100

Membrane Filter

MS® Glass Fiber Filter

Introduction

MS® Glass fiber filters are manufactured from 100% borosilicate glass. These depth filters combine fast flow rate with high loading capacity and retention of fine particulates. Compared to cellulose and synthetic media, the small diameter fibers make micro glass media have superior efficiency and dirt holding.

Feature

• Made of borosilicate glass fiber without binders or with binder
• Stability at high temperatures: It keeps its properties up to 500℃ and180℃ for Grade GF10
• Large surface area provides an outstanding retention capacity
• High flow speed and high permeability to air
• Excellent wet strength for easy handing and filter integrity

Application

• Conventional filtration efficiency
• Clarification and filtration of reagents
• Pre-filter before membrane filter

Cat.No	Description	Character	Pack(qty/case)
MS Grade GFA			
SPGFA025160N	No binder, pore size 1.6um, diameter 25mm	Weigh 56g/m2，thickness 0.29mm	100
SPGFA047160N	No binder, pore size 1.6um, diameter 47mm	Weigh 56g/m2，thickness 0.29mm	100
SPGFA090160N	No binder, pore size 1.6um, diameter 90mm	Weigh 56g/m2，thickness 0.29mm	50
MS Grade GFB			
SPGFB025100N	No binder, pore size 1.0um, diameter 25mm	Weigh 140g/m2，thickness 1.0mm	50
SPGFB047100N	No binder, pore size 1.0um, diameter 47mm	Weigh 140g/m2，thickness 1.0mm	50
SPGFB090100N	No binder, pore size 1.0um, diameter 90mm	Weigh 140g/m2，thickness 1.0mm	25
MS Grade GFC			
SPGFC025120N	No binder, pore size 1.2um, diameter 25mm	Weigh 54g/m2，thickness 0.28mm	100
SPGFC047120N	No binder, pore size 1.2um, diameter 47mm	Weigh 54g/m2，thickness 0.28mm	100
SPGFC090120N	No binder, pore size 1.2um, diameter 90mm	Weigh 54g/m2，thickness 0.28mm	50

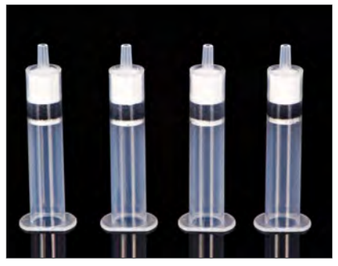
Membrane Filter

MS® Glass Fiber Filter

Cat.No	Description	Character	Pack(qty/case)
MS Grade GFD			
SPGFD025270N	No binder, pore size 2.7um, diameter 25mm	Weigh 120g/m2，thickness 0.53mm	50
SPGFD047270N	No binder, pore size 2.7um, diameter 47mm	Weigh 120g/m2，thickness 0.53mm	50
SPGFD090270N	No binder, pore size 2.7um, diameter 90mm	Weigh 120g/m2，thickness 0.53mm	25
MS Grade GFF			
SPGFF025070N	No binder, pore size 0.7um, diameter 25mm	Weigh 75g/m2，thickness 0.4mm	100
SPGFF047070N	No binder, pore size 0.7um, diameter 47mm	Weigh 75g/m2，thickness 0.4mm	100
SPGFF090070N	No binder, pore size 0.7um, diameter 90mm	Weigh 75g/m2，thickness 0.4mm	50

SPE Column

Solid Phase Extraction Column



Solid-phase extraction (SPE)is a separation process by which compounds that are dissolved or suspended in a liquid mixture are separated from other compounds in the mixture according to their physical and chemical properties. Analytical laboratories use solid phase extraction to concentrate and purify samples for analysis. Solid phase extraction can be used to isolate analytes of interest from a wide variety of matrices, including urine, blood, water, beverages, soil, and animal tissue.

SPE is solvent consumption, It is convenient, safe and huge efficiency. According to the principle of "like dissolves like", SPE can be classified in four types: reversed phase SPE, normal phase SPE, ion exchange SPE, absorption SPE.

MS® Chrompure™ SPE columns are packed with high purity and sorbents with even distribution, which ensure the reproducibility and consistency, so that a safe, reliable and efficient sample preparation process is guaranteed.

Solid Phase Extraction Column

Feature

- High purity silica gel
- Even distribution
- Reproducibility and consistency
- Perfect reproducibility
- Consistent results
- Better selectivity
- Very competitive prices

Application

- Biological samples and natural compounds
- Pharmaceuticals and drugs
- Pesticides and antibiotics in food and agricultural matrices
- Environmental samples, organic compounds and pollutants

Cat. No.	Description	Mass	Volume	Package (pcs/pk)
Silica Based				
LBSC181001	C18	100mg	1mL	100
LBSC185003		500mg	3mL	50
LBSC18501	C18-ne	50mg	1mL	100
LBSC182003		200mg	3mL	50
LBSC8501	C8	50mg	1mL	100
LBSC82003		200mg	3mL	50
LBSNH2501	NH2	1000mg	1mL	100
LBSNH22003		100mg	3mL	50
LBSCN501	CN	50mg	1mL	100
LBSCN2003		200mg	3mL	50
LBSPSA501	PSA	50mg	1mL	100
LBSPSA2003		200mg	3mL	50
LBSSAX501	SAX	50mg	1mL	100
LBSSAX2003		200mg	3mL	50
LBSSCX501	SCX	50mg	1mL	100
LBSSCX2003		200mg	3mL	50
LBSSI501	Silica	50mg	1mL	100
LBSSI2003		200mg	3mL	50

Solid Phase Extraction Column

Cat. No.	Description	Mass	Volume	Package (pcs/pk)
Inorganic				
LBSFL501	Florisil	50mg	1mL	100
LBSFL2003		200mg	3mL	50
LBSALA501	AL-A	50mg	1mL	100
LBSALA2003		200mg	3mL	50
LBSALB501	AL-B	50mg	1mL	100
LBSALB2003		200mg	3mL	50
LBSALN501	AL-N	50mg	1mL	100
LBSALN2003		200mg	3mL	50
LBSGCB501	GCB	50mg	1mL	100
LBSGCB2003		200mg	3mL	50
Polymer				
LBSPLS301	PLS	30mg	1mL	100
LBSPLS603		60mg	3mL	50
LBSPCX301	PCX	30mg	1mL	100
LBSPCX603		60mg	3mL	50
LBSPAX301	PAX	30mg	1mL	100
LBSPAX603		60mg	3mL	50
LBSGCBPSA01	GCB/PSA	200mg/200mg	3mL	50
LBSGCBPSA03		500mg/500mg	6mL	30
LBSGCBNH201	GCB/NH2	200mg/200mg	3mL	50
LBSGCBNH203		500mg/500mg	6mL	30

* For each Silica Based, we offer mases starts from 30mg to 1000mg.For each sorbent, we can offer the volume for 1ml, 3ml and 6ml.

MS® Sample Vial

Introduction

MS® Sample vials manufactured from borosilicate glass and meets ASTM Type I Class A and USP Type I standards. which improves your laboratory productivity by reducing costs and saving time. These products considerably reduce the risk of analytical test results compromised by ghost peaks, damaged needles or dislodged septa, decreasing analysis failures and sample reruns. MS® offer Type 1, 51-expansion glass vials and type-2, 33- expansion glass vials.

Feature

• High quality glass Type 1, 51-expansion glass (clear and amber) and type-2, 33- expansion glass (only clear)
• Computerized camera system for quality control throughout the manufacturing process to test critical dimensions
• Pre-packs including 100 vials and caps for ease and convenience in ordering
• Vials and caps and septa also available separately
• Meet standards set by governing bodies
• Tightest dimensional tolerances in industry

Application

• Compatible with a wide range of Thermo HPLC and GC instruments
• Amber vial is good for compound sample storage in the chemical industry, pharmaceutical industry and scientific research laboratory

Vial Closures Guide

Vials are available in three closure types: crimp, snap, and screw cap. Each closure has its advantages.

Cap	Seal	Comment
Crimp	Excellent seal	Requires tools
Snap	Moderate seal	Fast, no tools, some cap cracking
Screw	Excellent seal	Universal

MS® Sample Vial

Crimp caps squeeze the septum between the rim of the glass vial and the crimped aluminum cap. This forms an excellent seal preventing evaporation. The septum stays seated during piercing by the autosampler needle. The crimp cap vial requires crimping tools to carry out the sealing process.

Snap caps are an extension of the crimp cap system of sealing. A plastic cap is stretched over the rim of the vial to form a seal by squeezing the septum between the glass and the stretched plastic cap. The plastic cap creates tension when trying to return to its original size. This tension forms the seal between glass, cap and septum. Plastic snap caps do not require any tools to assemble.

Screw caps are universal. Screwing the cap applies a mechanical force that squeezes the septum between the glass rim and the cap. Screw caps form an excellent seal and mechanically hold the septum in place during piercing. No tools are required for assembly.

Septa Selection Guide

PTFE
• Recommended for single injection application.
• Ideal for use in MS applications
• Excellent solvent resistance and chemical compatibility
• Does not reseal upon punching
• Not for Long-term sample storage

PTFE/Silicone
• Recommended for multiple injection and sample storage
• Excellent resealing
• PTFE chemical resistance until punctured, then will have the chemical compatibility of silicone
• Working temperature range from -40°C to 200°C

Pre-slit PTFE/Silicone
• Prevent vacuum formation in vials
• Eliminates coring from bottom draw-port needles
• Good resealing capabilities
• Recommended for multiple injections
• PTFE chemical resistance until punctured, then will have the chemical compatibility of silicone
• Working temperature range from -40°C to 200°C

Typical Glass Composition

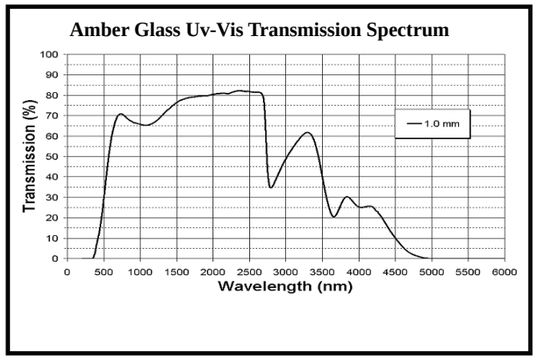
Different glass types contain different proportions of oxides to give characteristics such as color and different expansion coefficients.

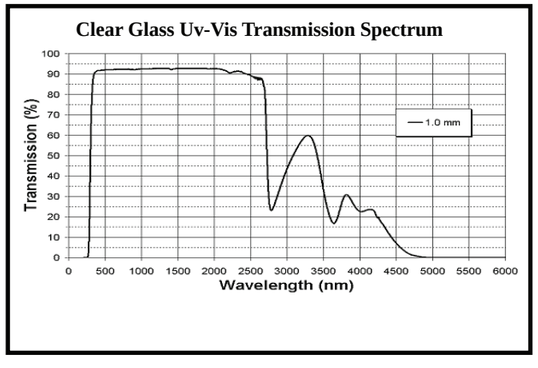
Oxide by %

Chemical		SiO_2	B_2O_3	Al_2O_3	Fe_2O_3	TiO_2	Na_2O	K_2O	BaO	CaO
Composition (main components in approx. weight %)	Amber Tube	70	7	6	1	5	7	1	2	<1
	Clear Tube	75	10.5	5	-	-	7	-	-	1.5

Light Transmission

The choice of clear or amber glass may also be made in order to deal with the exposure of sample to incident UV-Vis light.





Cat. No.	Description	Pcs/pk
4ml, 13-425 Sample Vials		
LBSV004C	4ml Clear vial, 15×45mm, screw top	100pcs
LBSV004A	4ml Amber vial, 15×45mm, screw top	100pcs
Caps & Septa for 13-425 Sample Vials		
LBSV014CRS	Red PTFE/White silicone septa + Black cap with hole, for 4ml screw top vial	100pcs
LBSV104CSS	Red PTFE/White silicone septa + Black cap without hole, for 4ml screw top vial	100pcs
Headspace Vials		
LBSV210C	10ml Clear vial, 22.5×46mm, crimp top, flat bottom	100pcs
LBSV220C	20ml Clear vial, 22.5×75mm, crimp top, flat bottom	100pcs
LBSV320C	20ml Clear vial, 22.5×75mm, crimp top, round bottom	100pcs
LBSV010C	10ml Clear vial, 18mm screw top, round bottom	100pcs
LBSV120C	20ml Clear vial, 18mm screw top, round bottom	100pcs
Caps & Septa for Headspace Vials		
LBSV220CSS	White PTFE/White Silicone + Aluminium cap with hole, for 10ml/20ml crimp top vial	100pcs
LBSV322CRS	Red PTFE/White Silicone + Aluminium cap with hole, for 10ml/20ml crimp top vial	100pcs
LBSV120CSS	Blue PTFE/ White silicone septa + Silver screw cap with hole, for 18mm screw top vial	100pcs
24-400 Vials		
LBSV020C	20ml Clear vial, 24-400 screw top	100pcs
LBSV020A	20ml Amber vial, 24-400 screw top	100pcs
LBSV040C	40ml Clear vial, 24-400 screw top	100pcs
LBSV040A	40ml Amber vial, 24-400 screw top	100pcs
Caps & Septa for 24-400 Vials		
LBSV040CSS	Nature PTFE/Nature silicone septa + Black screw cap without hole, for 24-400 screw top vial	100pcs
LBSV140CSS	Nature PTFE/Nature silicone septa + Black screw cap with hole, for 24-400 screw top vial	100pcs

Life Science Consumables

Filtration & Purification● Molecular Biology & Microbiology
Cell / Tissue Culture● Liquid Handing

MS® Sterile Syringe Filters

Introduction

MS® Sterile syringe filters are syringe operated filters for the clarification of aqueous solutions (column eluates, tissue culture additives, HPLC samples, etc). It is further to do the beautification appearance on general syringe filters basis and containing high quality membrane materials to make your experiment performance more perfect. Variety of diameters and pore sizes to meet most aqueous sample filtration needs.

Feature

- 100% integrity tested, individually packaged,Gamma irradiation
- Individual expiry date for easy QC tracking
- Certified non-pyrogenic and biologically safe
- Exclusive Triple-color printed packaging

Application

- Tissue culture media preparation
- Sterile filtration and clarification of biological fluids
- Probe solutions
- Protein and enzyme filtrations
- Hybridization buffers
- Other aqueous solutions

Cat.No	Pore size（μm）	Diameter（mm）	Sterile	Package（qty/pack）
PES Sterile Syringe Filter				
SFPVDF013022S	0.22	13	Yes	100
SFPVDF025045S	0.45	25	Yes	100
CA Sterile Syringe Filter				
SFCA013022S	0.22	13	Yes	100
PVDF Sterile Syringe Filter				
SFPES025022S	0.22	13	Yes	100
SFPES013045S	0.45	25	Yes	100

*Variety of menbranes, diameters and pore sizes can be customized to meet the requirements of customer. Please feel free to contact local agency for more details.

Biopure™ Syringe Filters

Introduction

MS® Biopure™ Syringe filter provides a high throughput sample filtration method within novative connection way (individual or assembled). The polycarbonate housing material tolerates up to 110℃ with PTFE membrane, up to 90℃ with PVDF membrane. The Classic range is available in all of the major membranes including Nylon, PTFE, PVDF, CA and PES, which are supplied in 33mm formats in polypropylene housings.

Feature

- High sample throughput
- Luer Lock Male/Female, a more stable and efficient connection
- Batch printing, full quality control, traceability source, strict quality guarantee
- Non-pyrogenic, endotoxin-free
- Triple-color printed packagings exclusive

Application

- Tissue culture media preparation
- Sterile filtration and clarification of biological fluids
- Probe solutions
- Protein and enzyme filtrations
- Hybridization buffers
- Other aqueous solutions

Cat.No	Pore size（μm）	Diameter（mm）	Sterile	Package（qty/pack）
CA Syringe Filter				
SFCA033022SO	0.22	33	Yes	100
SFCA033045SO	0.45	33	Yes	100
PVDF Syringe Filter				
SFPVDF033022SLO	0.22	33	Yes	100
SFPVDF033045SLO	0.45	33	Yes	100

*Variety of membranes, diameters and pore sizes can be customized to meet the requirements of customer. Non-sterile packaging is available. Please feel free to contact local agency for more details.

MS® Venting Filters

Introduction

MS® Venting filters are disposable units designed and manufactured with a high-purity polypropylene housing to maintain sample purity and are available with a choice of filtration media to suit a range of venting applications, venting applications. sterilizing gases, venting sterile containers, and sterilizing or clarifying organic solutions and protect your laboratory. sterilizing gases, venting sterile containers, and sterilizing or clarifying organic solutions .

Feature

- Non-toxic,Gamma radiation sterilized
- Available through custom tubing packers
- Scalable and reusable, good resistance to pressure
- Broad chemical compatibility
- Large surface area provides greater throughput and higher air flow rates
- Inlet/Outlet: 7-13mm stepped hose barb; inlet/outlet: 1/8 in. MNPT, stepped hose barb

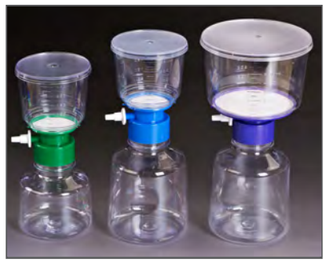
Application

- Sterile venting of small fermenters and containers
- General sterile filtration of gases and air
- Sterilizing or clarifying organic solutions
- Decreases contamination risks, ideal for gas lines for CO_2 incubators
- Chromatography solutions

Cat.No	Pore size（μm）	Diameter（mm）	Package（qty/pack）
In-line Filter			
SFPTFE050022NBH	0.22	50	25
SFPTFE050045NBH	0.45	50	25
SFPTFE050100NBH	1.0	50	25

*Variety of diameters and pore sizes can be customized to meet the requirements of customer. Please feel free to contact local agency for more details.

MS® Vacuum Filters



Introduction

Vacufil™ Disposable vacuum filtration units are very useful in large volume samples separation and purification for tissue culture media, biological fluids and fixation buffers. The unit includes membrane filter, graduated funnel of clear polystyrene with polyethylene neck adapter and polystyrene reservoir bottle with a separate sterile polyethylene cap. Five membranes are available to meet all of your filtration needs: PES, PVDF, CA , Nylon and MCE. Available in three styles: complete filter/storage unit and bottle top filters and the reservoir bottle.

Application

- Ideal for filtration of tissue culture media, biological fluids, fixation buffers etc
- Customized Membrane: Easy identification by membrane filter
- Other aqueous solutions
- Gamma Radiation
- Glass fiber prefilter application

Feature

- Light weight and heavy wall construction
- Engraved graduation ensure veracity
- Large knurls on the reservoir bottle cap for easy screw
- Certified non- pyrogenic
- Designed wide and easy access bottle mouth for efficiently and stably pour out
- Gamma radiation

Filter Unit (Funnel/Receiver)	Pore Size(μm)	PES	MCE	CA	Nylon	PVDF
Vacuum Filters						
250/250	0.22μm	VFPPES122250	VFPMCE122250	VFPCA122250	VFPNY122250	VFPPVDF122250
	0.45μm	VFPPES145250	VFPMCE145250	VFPCA145250	VFPNY145250	VFPPVDF145250
250/500	0.22μm	VFPPES122500	VFPMCE122500	VFPCA122500	VFPNY122500	VFPPVDF122500
	0.45μm	VFPPES145500	VFPMCE145500	VFPCA145500	VFPNY145500	VFPPVDF145500
500/500	0.22μm	VFPPES222500	VFPMCE222500	VFPCA222500	VFPNY222500	VFPPVDF222500
	0.45μm	VFPPES245500	VFPMCE24550	VFPCA245500	VFPNY245500	VFPPVDF245500
500/1000	0.22μm	VFPPES2221000	VFPMCE2221000	VFPCA2221000	VFPNY2221000	VFPPVDF2221000
	0.45μm	VFPPES2451000	VFPMCE2451000	VFPCA2451000	VFPNY2451000	VFPPVDF2451000

*Individual Wrapped Funnel and Receiver Bottle individual package are both available.

MS® UltraFiltration Tube

Introduction

MS® UltraFiltration tubes are designed for in vitro diagnostic use and intended for concentrating serum, urine, cerebrospinal fluid and other body fluids prior to analysis. Ultrafiltration tube through the centrifugation to remove biological macromolecules which is significantly larger than filter pore size to improve the solute concentration of biological macromolecules, more than 90% recovery .

The unit is consisted of cap, ultrafiltration intubation and tube body. One can handle 15 to 20ml samples, it is individually sterile packaging.

Feature

- High recovery housing material: PS, PES membrane in a range of molecular weight cut-offs like 30KD, 50KD
- Available with 50ml
- Typical final concentrate volume is 200μl
- 100% integrity tested for reliable performance
- Convenient sample monitoring with translucent housing and volume gradations
- Direct pipettor sample access eliminates processing step to recover concentrate

Application

- Remove the labeled amino acid and nucleotide
- HPLC sample preparation
- Removing Impurity proteins
- Protein and enzyme concentration and desalting
- Recovery of target molecules in biological solution

Cat.No	Sample Volume	MWCO	Pack(qty/case)
UltraFiltration Tube			
LBUT5001	15mL	30000	24
LBUT5002	15mL	50000	24

*To achieve the highest recovery , membrane selected should be at least half the molecular weight of the solute to be retained.

MS® Sterile MCE Gridded Membrane Filter

Introduction

MS® Sterile mixed cellulose ester(MCE) gridded membrane filter are composed of cellulose acetate and cellulose nitrate. Because MCE membrane is biological inert, which is one of most widely used membranes in analytical and research applications. MS® offers individual and continual package which all of package is characterized by a smoother and more uniform surface than pure nitrocellulose filter. Also, the color contrast provided by the filter surface facilitates particle detection and minimizes eye fatigue. The composed multiple package provides continual pieces which is more convenience on operation, less risk of accidental membrane contamination and time-saving.

Feature

• Most suitable for retention and growth of microorganisms, microbial survival rate> 90%

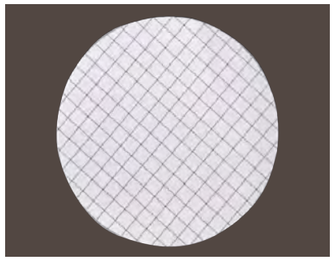
• Gridded filters have clearly defined grid lines spaced at 3.1 mm intervals. It does not affect colony growth

• Single sterile packaging can be used directly. Continuous sterile packaging is suitable for the mainstream models of market.Which contamination avoid.

• Combinations of different color diaphragm and the grid lines for different microbial detection

• MCE gridded membrane offers various pore size(0.2, 0.45, 0.8, 1.2μm)

• “Multi-fit”, are designed as “one size fits all”, which can be used in all standard dispensers



Application

• Sterilizing filtration, air monitoring, particle monitoring, particle removal, bioassays

• QC of fluid holding tanks, fluid monitoring, air monitoring, particle collection and analysis

• Micro dialysis of DNA and proteins

• Clarification of aqueous solutions, particle removal and analysis, microbiology analysis

Molecular Biology & Microbiology

MS® Sterile MCE Gridded Membrane Filter

Cat.No	Description	Pack(pcs/pack)
	Sterile MCE Gridded Membrane Filter	
MFMCE047022GWS	MCE Gridded Membrane Filter, White, Individually package, Sterile, 0.22(μm), 47(mm)	200
MFMCE047045GWS	MCE Gridded Membrane Filter, White, Individually package, Sterile, 0.45(μm), 47(mm)	200
MFMCE047022GBS	MCE Gridded Membrane Filter, Individually package, Black, Sterile,0.22(μm), 47(mm)	200
MFMCE050022GBS	MCE Gridded Membrane Filter, Individually package, Black, Sterile,0.22(μm), 50(mm)	200
MFMCE047022CW	MCE Gridded Membrane Filter, White, Continuous Package, Sterile, 0.22(μm), 47(mm), suitable for membrane dispenser	150
MFMCE050022CW	MCE Gridded Membrane Filter, White, Continuous Package, Sterile, 0.22(μm), 50(mm), suitable for membrane dispenser	150
MFMCE047045CB	MCE Gridded Membrane Filter, White, Continuous Package, Sterile, 0.45(μm), 47(mm), suitable for membrane dispenser	150
MFMCE050045CB	MCE Gridded Membrane Filter, White, Continuous Package, Sterile, 0.45(μm), 50(mm), suitable for membrane dispenser	150

Bioset™ Monitor

Introduction

MS® Disposable sterile Bioset™ monitor are applied for contaminants monitoring, microbiological testing and sterility testing in liquid samples like food/beverages from raw materials to finished products.

The easy system of low-cost disposable, ready to use sterile filter sets bring significant convenience to your daily activities in the laboratory and enable you to optimize the analysis time for routine testing. Each unit consisting of a measured filter funnel, base, pad, membrane, removable lid and plug.

Bioset™ Monitor

Application

• Total colony counts detection, especially for detection of microorganisms contamination in liquids.
• Qualitetive and quantitative analysis of microbiological testing of pharmaceuticals, food, beverages, water and other liquids.

Feature

• MCE gridded membrane with pad with choice of pore size (0.2, 0.45, 0.8, or 1.2 µm)
• Black or white gridded membrane choice for better contrast
• Ready to use: testing time can be reduced by up to 70%
• All-in-one system: filtration unit easily converts to a Petri dish, which can be labeled and incubated for culturing
• Heavy-duty polystyrene (PS), translucent, lightweight, and have reinforced rims and inside fluting

Item#	Description	Pcs per box
Bioset™ Microbiological Monitor		
BM047022W	Bioset Microbiological monitor, 100ml, 47mm, 0.22µm, White	50
BM047045W	Bioset Microbiological monitor, 100ml, 47mm, 0.45µm, White	50
BM047080W	Bioset Microbiological monitor, 100ml, 47mm, 0.8µm, White	50
BM047022B	Bioset Microbiological monitor, 100ml, 47mm, 0.22µm, Black	50
BM047045B	Bioset Microbiological monitor, 100ml, 47mm, 0.45µm, Black	50
BM047080B	Bioset Microbiological monitor, 100ml, 47mm, 0.8um, Black	50

MS® Spin Column

Introduction

MS® Spin columns provide materials for the fast and convenient purification of a protein or protein complex using affinity media. Immunoprecipitation or affinity pull-down methods are a common way to perform small-scale purification of target molecules. Each spin column fits securely in the supplied 2 mL collection tubes for use in a micro centrifuge.

MS® Spin Column

Feature

• Convenient format for both use and storage
• Available with 3, 4 or 5 layers of GF/F glass fiber membrane
• Flat and frosted caps surface together with smooth and frosted body surface provide easy and legible mark.

Application

• Rapid purification of PCR amplification products
• Recovery of DNA bands from agarose gel
• Plasmid DNA extraction , Genomic DNA extraction
• RNA purification
• Isolation of specific DNA from reaction mixtures

Code	Description	Qty/Pack
Spin Column		
LBSC00203	Spin column, 3 layers of GF/F glass fiber membrane	100
LBSC00204	Spin column, 4 layers of GF/F glass fiber membrane	100

MS® Cuvettes

Introduction

MS® glass and synthetic quartz cuvettes are ideal for UV/VIS/NIR absorbance or fluorescence experiments. The cuvettes are manufactured by heat fusion into a single unit. This adhesive-free technology eliminates any solvent interference.

Feature

• Translucent surface optical performance error ≤ 0.3%
• Wavelength range 350-900mm
• Good chemical compatibility
• Mechanical strength

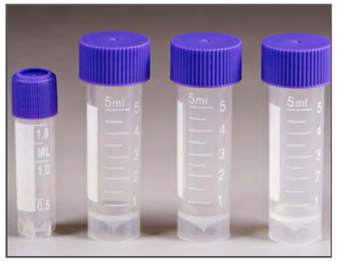
Application

• UV/VIS/NIR absorbance or fluorescence experiments
• Deep UV applications and fluorescent applications
• Precision measurements

MS® Cuvettes

Code	Description	Pack
	Cuvettes	
LBCUV145	Polystyrene. 4.5ml, two optical windows	1
LBUVQ-112	PTFE stopper 0.7ml, UV Quartz Glass	1
LBUVQ-204	Standard cell with lid 3.5mL, UV Quartz Glass	1
LBUVQ-214	Standard cell with PTFE Stopper 3.5ml, UV Quartz Glass	1

BIO-PURE® Freeze Tube



Introduction

BIO-PURE® Freeze tube are manufactured from polypropylene to withstand temperatures to -80 °C. Tubes can be color-coded with inserts. All self-standing vials have a special base design allowing them to be locked into the cryogenic rack and tray, for single-handed manipulation.

Feature

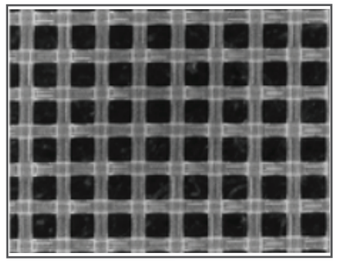
- Available with 5 volume of 1.5, 1.8, 5, 7, 10ml
- Screw cap with plug seal for one-handed operation
- Self standing
- Easy-to-read graduations are accurate to ±2%
- Gamma irradiation sterilized

Application

- Frozen storage cell, sample, solution; clinical diagnosis, biotechnology
- Pharmacy and chemistry, environmental testing, food testing

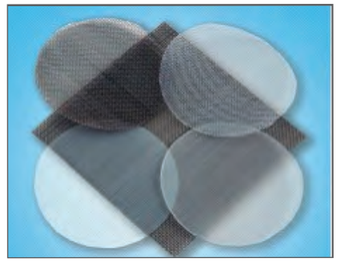
Code	Description	Qty/Pack	Pack(Pcs/Case)
	Freeze Tube		
LBFT15S	Freeze Tube, 1.5ml, Self standing, Sterile	500	12000
LBFT50S	Freeze Tube, 5.0ml, Self standing, Sterile	200	4400

MS® Nylon Mesh Filter



Introduction

MS® Nylon mesh filter is made by woven monofilament type PA6(1:1 Weaving Methods), characterized precise mesh opening, percent open area and mesh thickness, with a broad range of solvent. Nylon Mesh Filter with mesh openings ranging from 10 to 180 um, can be fully meet the most stringent requirements of customers.



Feature

- Hydrophilic
- Compatible with a broad range of solvents
- SGS and ROHS certificate

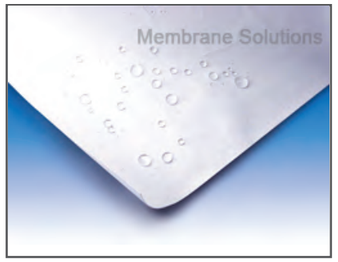
Application

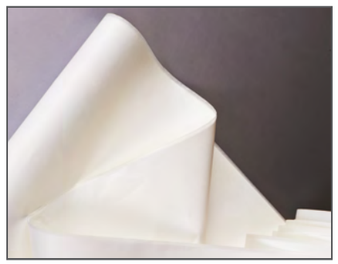
- Collection of algae and cells
- Particle analysis
- Large particulate filtration
- Background filter for automated particle imaging systems
- Prefiltration of solvents
- Paint monitoring

Cat.No	Description	Pore size(μm)	Pack(pcs/pack)
	Nylon Mesh Filter		
MENY025010	Nylon mesh filter,size:25mm	10	100
MENY047010	Nylon mesh filter,size:47mm	10	100
MENY090010	Nylon mesh filter, size:90mm	10	50
MENY303010	Nylon Mesh Filter,size: 30cm×3m	10	1
MENY025011	Nylon mesh filter, size:25mm	11	100
MENY047011	Nylon mesh filter, size:47mm	11	100
MENY090011	Nylon mesh filter, size:90mm	11	50
MENY303011	Nylon Mesh Filter, size:30cm×3m	11	1

*Variety of pore sizes can be customized to meet the requirements of customer. Please feel free to contact local agency for more details.

Bio-Iott™ Blotting Membrane





Introduction

MS® offers an extensive range of blotting membranes made of nitrocellulose, polyvinylidine difluoride (PVDF), or nylon with different pore sizes suitable for your application requirements. The blotting membranes are used as solid support in the transfer and immobilization (blotting) steps throughout Western, Northern, and Southern blotting as well as Dot-Blot work flows. We offer a broad line of membrane rolls, sheets, sandwiches and discs. All blotting membrane sheets and sandwiches are conveniently cut to fit the most popular gel sizes which allows 'out-of-the-box' usage and eliminates sheet-to-sheet variations.

Feature

- High sensitivity and low background
- Hydrophobic
- High strength

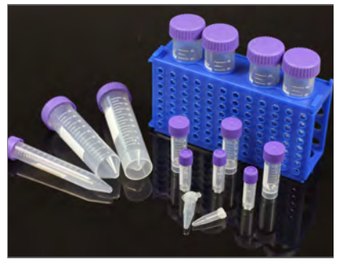
Application

- Protein transfers
- Protein dot or slot blots
- Nucleic acid detection
- Northern and Southern Blotting

Cat.No	Description	Size	Pack(pcs/pack)
Nitrocellulose Membranes			
MSNC02030301	0.22μm Nitrocellulose Membranes	30cm×3m	1
MSNC04530301	0.45μm Nitrocellulose Membranes	30cm×3m	1
PVDF Membranes			
MSPVDF02030301	0.20μm Transfer membrane PVDF	30cm×3m	1
MSPVDF04530301	0.45μm Transfer membrane PVDF	30cm×3m	1

*We also offer MCE transfer membrane, Nylon transfer membrane and NY positively charged transfer membrane.

MS® Centrifuge Tubes



Introduction

MS® provides all kinds of common type micro centrifuge and centrifuge tube.Including screw mouth centrifuge tube,centrifuge tube with lid, straight mouth centrifuge tubes, round and conical bottom. Special selected high-clarity polypropylene assures the manufacture good transparency, chemical resistibility and obdurability.

Feature

- Engraved graduation ensure accuracy
- Autoclavable at 121℃ and freezable to -80℃
- Flat and frosted caps surface together with smooth and frosted body surface provide easy and legible mark
- Leak-proof
- Max.RCF:9,400 for conical bottom tubes; 6,000 for self-standing tubes
- Gamma irradiation sterilized

Application

- Microbiology
- Tissue culture
- Molecular Biology
- Genetics
- Pharmaceutical industry

Cat.No	Description	Pack(pcs/bag)	Pack(pcs/case)
Centrifuge Tube / Micro Centrifuge Tube			
LBCT015N	Micro Centrifuge Tubes, 1.5ml, Conical, Graduated, Non-sterilized	500	12000
LBCT020N	Micro Centrifuge Tubes, 2.0ml, Conical, Graduated, Non-sterilized	500	10000
LBCT150N	Centrifuge Tubes, 15.0ml, Conical, Graduated, Non-sterilized	50	1000
LBCT150NA	Centrifuge Tubes, 15.0ml, Conical, Graduated, Non-sterilized, advanced	50	1000
LBCT500N	Centrifuge Tubes, 50.0ml, Conical, Graduated, Non-sterilized	25	500
LBCT500NA	Centrifuge Tubes, 50.0ml, Conical, Graduated, Non-sterilized，advanced	25	500
LBCT500SI	Centrifuge Tubes, 50.0ml, Conical, Graduated, Sterile, Individually packaging	1	500
LBCT501N	Centrifuge Tubes, 50.0ml, Self-standing, Graduated, Non-sterile	25	500

*Also 0.2ml, 0.5ml micro centrifuge tube, 5ml, 7ml and 10ml centrifuge tubes are available. All tubes are sterilized and non-sterilized in two pack sizes.

MS® PCR Plate / PCR Tube

Introduction

Polypropylene PCR plate / PCR tubes are specifically designed for PCR and thermal transfer applications. The ultra-thin and consistent tube walls ensure that thermal transfer is precisely even along the surface of the tube. The unique cap design guarantees a perfect fit to prevent sample evaporation during thermal cycling. These PCR tubes are made from highly polished molds and are free of lubricants, dyes, and fillers. Certified RNase-, DNase-, and pyrogen-free to ensure the purity of your reaction.

Feature

- Easy open and close using one hand
- External graduations and frosted writing surface aid in sample identification
- Certified Dnase/Rnase free
- Autoclavable under normal autoclaving guidelines

Application

- Thermal transfer certificated
- PCR reaction
- Plate: high throughput screening thermocycler application

Code	Description	Qty/Pack
PCR Plate / PCR Tube		
LBPCR02T01	PCR Tubes, dome cap, thin wall, 0.2ml	1000
LBPCT02	PCR Tubes, flat cap, thin wall, 0.2ml	1000
LBPCT05	PCR Tubes, flat cap, thin wall, 0.5ml	1000
LBPCR08T01	PCR coadunate tube, 8-strip, dome cover	200
LBPCR08T02	PCR coadunate tube, 8-strip, flat cover	200
LBPCR12T01	PCR coadunate tube, 12-strip, flat cover	150
LBPCR096N	PCR Plate, 96 wells, 0.2ml, chimney-top, Non-sterilized	200
LBPCR096S	PCR Plate,96 wells, 0.2ml, chimney-top, sterile	200
LBPCR196N	PCR plate,96wells, 0.2ml, with skitr, Non-sterilized	200
LBPCR196S	PCR Plate,96 wells, 0.2ml, with skitr, sterile	200

MS® Petri Dish

Introduction

MS® Petri dishes are available in a variety of shapes and sizes for use in routine procedures and with automated equipment. 55mm and 90mm sterile petri dish supporting the use of absorbent pads can be used for bacterial detection.

Feature

- Made of molded polystyrene in 35mm, 55mm, 70mm, 90mm and customized diameter
- Designed easily to open with one hand
- Available with or without absorbent pads
- Gamma irradiated for sterilization
- Packaged in heavy-wall polyethylene sleeves

Application

- Bacterial culture
- Ideal for microbiological analysis
- Petri dishes with absorbent pads can be used for culturing micro-organisBio-pure on either agar or broth based media

Cat.No	Description	Pack（qty/bag）	Pack(qty/case)
Petri Dish			
LBPD035S	PS Petri Dishes, 35x15mm, standard round, sterile	10	2000
LBPD055S	PS Petri Dishes, 55x15mm, standard round, sterile	10	1000
LBPD070S	PS Petri Dishes, 70x15mm, standard round, sterile	10	1000
LBPD090S	PS Petri Dishes, 90x15mm, standard round, sterile	10	500
LBPD150S	PS Petri Dishes, 150x15mm, standard round, sterile	10	200

MS® ELISA Plate

Introduction

ELISA Plates are optimal products for ELISA and provide reliable performance in binding assays when consistent coating of wells is required. ELISA Plates with 3 protein binding capability well surface are available. The absolutely flat floor area, free from inclusions, guarantees the highest level of transparency. The advantages of the ELISA are similar to other antibody-labeled reactions which include specificity, sensitivity, inexpensiveness and safety.

Feature

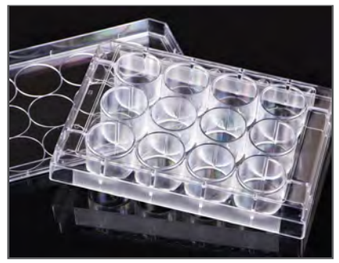
- Different bottom: fixed flat bottom and detachable flat bottom
- 8 or 12 wells strip and 48 or 96 well detachable frames
- Well surface is uniform, smooth and free from striation to eliminate error
- 100% virgin high quality crystal-grade polystyrene for optical clarity and consistency
- CV of transmittance is less than 5.00%

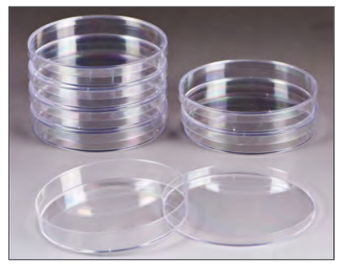
Application

- Enzyme linked immunosorbent assay

Code	Description	Qty	Pack
	ELISA Plate		
LBEP096	ELISA Plate, 96 Wells, fixed flat bottom, high binding	10	200
LBEP196	ELISA Plate, 96 Wells, Detachable, high binding	10	200
LBEP296	ELISA Plate, 96 Wells, fixed flat bottom, medium binding	10	200
LBEP496	ELISA Plate, 96 Wells, fixed flat bottom, aminated binding	10	200
LBEP596	ELISA Plate, 96 Wells, Detachable, aminated binding	10	200

MS® Tissue/Cell Culture Plate / Dish





Introduction

MS® Culture plates / dish are ideal for cell culture and cell harvesting; available with five different growth surface areas either surface-treated or non-treated. The surface of treated plates is modified with plasma causing the otherwise very hydrophobic polystyrene surface, to become negatively charged and hydrophilic, allowing cells to attach and multiply. Raised rims on wells reduce the risks of cross-contamination and nestle into rings on the lid to reduce evaporation. One direction lid has venting system that assists in controlling gaseous exchange. A rim on the top of the lid is designed for secure stacking.

Feature

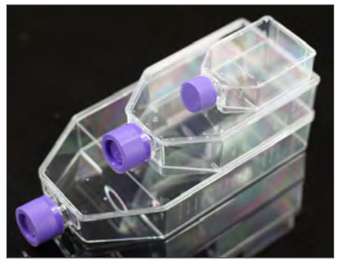
- Uniform wall thickness ensures distortion-free well bottom .
- Each well is labeled with alphanumeric marking .
- DNAse/RNAsefree , non-pyrogenic .
- Gamma radiation sterilization.

Application

- Medicine
- Detection
- Cell culture

Cat.No	Description	Pcs/Bag	Bag/Case
	Tissue/Cell Culture Plate / Dish		
LBCP06T	Tissue Culture Plate, 6 Wells, Surface Treated, sterile, Individually packed	1	100
LBCP12T	Tissue Culture Plate, 12 Wells, Surface Treated, sterile; Individually packed	1	100
LBCP24T	Tissue Culture Plate, 24 Wells, Surface Treated, sterile; Individually packed	1	100
LBCP96T	Tissue Culture Plate, 48 Wells, Surface Treated, sterile,Individually packed	1	100
LBCP96TV	Tissue Culture Plate, 6 Wells, Surface Treated, V bottom ,sterile, Individually packed	1	100
LBCP96TU	Tissue Culture Plate, 12 Wells, Surface Treated, U bottom, sterile, Individually packed	1	100
LBCD035T	Tissue Culture Dish, 3.5cm, Surface Treated, sterile; γ-irradiated	10	2000
LBCD055T	Tissue Culture Dish,5.5cm, Surface Treated, sterile; γ-irradiated	10	1000
LBCD070T	Tissue Culture Dish, 7.0cm, Surface Treated, sterile; γ-irradiated	10	1000
LBCD090T	Tissue Culture Dish, 9.0cm, Surface Treated, sterile; γ-irradiated	10	500
LBCD150T	Tissue Culture Dish, 15.0cm, Surface Treated, sterile; γ-irradiated	10	1000

MS® Tissue/Cell Culture Flask



Introduction

MS® offers Cell Culture Flaks with growth areas of 25 cm², 75 cm² and 175 cm². which are easy to open packaging, variety of flasks and assortment of caps. MS® cell culture flasks are made of high-grade polystyrene and dealt with tissue culture-treated surface. Three different cap styles can be used in both open and closed systems: plug sealing caps, vent caps and double layers caps. The patent double-layers™ of vented combined seal cap cell culture flasks adapted for 75cm2 and 150cm². The patented cap design can simply make it convenient to choose seal or air permeability though adjusting upper cap itself.

Feature

• Gamma irradiation and certified to be, non-pyrogenic
• Full neck support provides horizontal stability-reducing contamination risk
• Design permits access to the entire growth surface-improving cell recovery

Application

• Medcine
• Detection
• Cell culture

Cat.No	Description	Pcs/Bag	Bag/Case
	Tissue / Cell Culture Flask		
LBCF0025T	Tissue Culture Flask, 25cm², TC Surface Treated, Plug seal cap, sterile	10	200
LBCF1025T	Tissue Culture Flask, 25cm², TC Surface Treated, Vented, sterile	10	200
LBCF0075T	Tissue Culture Flask, 75cm², TC Surface Treated, Plug seal cap, sterile	5	100
LBCF1075T	Tissue Culture Flask, 75cm², TC Surface Treated, Vented, sterile	5	100
LBCF0150T	Tissue Culture Flask, 150cm², TC Surface Treated, Plug seal cap, sterile	5	40
LBCF1150T	Tissue Culture Flask, 150cm², TC Surface Treated, Vented, sterile	5	40
LBCF2075T	Tissue Culture Flask, 75cm², TC Surface Treated, Double layers caps, sterile	5	100
LBCF2150T	Tissue Culture Flask, 150cm² TC Surface Treated, Double layers caps, sterile	5	40

*We also offer flasks without surface treated.

MS® Roller Bottle

Introduction

MS® Roller bottles are made from polystyrene (PS) and feature one-piece seamless construction.The caps are made from high-density polyethylene (HDPE) and are free of heavy metals. Both plastics meet the USP Class VI requirements for plastic containers and closures.

Feature

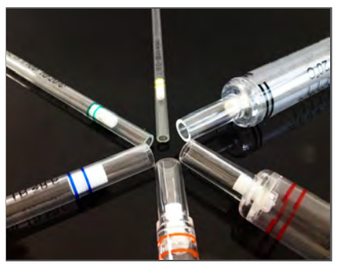
• Either TC treated or non-treated; Non-pyrogenic
• Large knurls on the cap for easy grip, more manual handling comfortable
• Each with clear graduate and lot number; 2 different cap styles can be used in both open and closed systems

Application

• Cell growth and multiplication
• Research and manufacturing
• Biological products which made with cell products.

Cat.No	Description	Pcs/Bag	Bag/Case
	Rolle Bottle		
LBRB2000T1	Roller bottle, 2000ml, TC Surface Treated, Plug seal cap, sterile	1	12
LBRB2000T2	Roller bottle, 2000ml, TC Surface Treated, Vented, sterile	1	12

MS® Serological Pipettes



Introduction

MS® Serological pipettes are accurate, disposable plastic pipettes, plugged and sterilized. Serological pipettes are useful for mixing chemical solutions or cell suspensions, transferring liquids between receptacles, or carefully layering reagents of different densities.

Feature

• Accurate volume 1 – 25 ml
• Available in sterilized or non- sterilized
• Highly visible, bidirectional , and over-volume graduations
• Single wrapped in lint-free paper/plastic blister

Application

• Tissue culture
• Bacteriology
• Clinical research

MS® Serological Pipettes

Cat.No	Description	Qty/Pack
Serological Pipettes		
LBSP01S	Serological Pipets, 1.0ml, Yellow, Graduated, Sterile, single-packed	1/500/3000
LBSP02S	Serological Pipets, 2.0ml, Green, Graduated, Sterile, single-packed	1/400/2400
LBSP05S	Serological Pipets, 5.0ml, Blue, Graduated, Sterile, single-packed	1/300/1800
LBSP10S	Serological Pipets, 10.0ml, Orange, Graduated, Sterile, single-packed	1/200/1200
LBSP25S	Serological Pipets, 25.0ml, Red, Graduated, Sterile, single-packed	1/100/800
LBSP50S	Serological Pipets, 50.0ml, Black, Graduated, Sterile, single-packed	1/100/600

*We also offer 25 pieces serological pipettes per package and serological pipettes with ungraduated.

BIO-PURE® LBPP Pipette Pasteur/Transfer pipettes

Introduction

BIO-PURE® Disposable pipette pasteur are manufactured with exclusively high-grade polystyrene (GPPS) or polyethylene (PE) which are excellent for clear observation and reducing liquid attachment on the pipette surface to assure accurate delivery. BIO-PURE® disposable transfer pipettes are ideal for transferring and dispensing liquids safely in all types of laboratories.

Feature

- Ideal for sampling and decanting infectious or toxic liquids.
- Safe, convenient and non-toxic
- Long flexible stem can be bent to draw liquid from narrow or small volume tubes into the bulb
- Available with Gamma radiation sterilized or non-sterilized

Application

- Tissue culture
- Bacteriology
- Life science

BIO-PURE® LBPP Pipette Pasteur/Transfer pipettes

Cat.No	Description	Pack(pcs/bag)	Pack(pcs/case)
Pipette Pasteur			
LBPP10S	Pipette Pasteur/Transfer pipettes, 1.0ml, sterile, individually packed	250	5000
LBPP30S	Pipette Pasteur/Transfer pipettes, 3.0ml, sterile, individually packed	250	5000
LBPP60S	Pipette Pasteur/Transfer pipettes, 6.0ml, sterile, individually packed	200	5000

MS® Micro Pipette Tips

Introduction

MS® Disposable pipette tips are preferred accessories for most brand micropipettor. And are ideal for applications where avoidance of cross contamination is critical, such as DNA amplification and radioisotope handling.

Multi-Racked® Tip Box improves the rack volume based on individual tip box. Compared to single package, the multi-rack one ensures the volume has increased by 150%, while the price has decreased by 10% relatively. Without frequent replacement of tips box, you could easily make use of each rack.

Feature

- Provided tips with filter and without filter in two sizes thatcan fit perfectly match major pipette brand in the market
- DNase /RNase-free, Non-pyrogenic
- High temperature (121 ℃) , Gamma radiation sterilization
- Low adsorption

Application

- Tissue culture
- Bacteriology
- Medicine

Liquid Handling

MS® Micro Pipette Tips

Art.No.	Description	Pack(Pcs/Bag)	Pack(Pcs/Case)
	Micro Pipette Tips		
LBMT1001S	Pipette Micro Tips, 0.1~10μL,sterile, put in Pipette Micro Tip Box	96	9600
LBMT1020S	Pipette Micro Tips, 10~200μL,sterile, Pipette Micro Tip Box	96	9600
LBMT1100S	Pipette Micro Tips, 100~1000μL,Sterile, Pipette Micro Tip Box	60	6000
LBMT0001S	Pipette Micro Tips, 0.1~10μL, with filter, sterile, put in Pipette Micro Tip Box	96	9600
LBMT0020S	Pipette Micro Tips, 10~200μL,with filter, sterile, Pipette Micro Tip Box	96	9600
LBMT0100S	Pipette Micro Tips, 100~1000μL, with filter, Sterile, Pipette Micro Tip Box	60	6000
LBMT001NA	Pipette Micro Tips, 0.1～10μL, non-sterile, advanced	1000	60000
LBMT020NA	Pipette Micro Tips, 10~200μL, non-sterile, advanced	1000	60000
LBMT100NA	Pipette Micro Tips, 100~1000μL, Non-sterilized, advanced	1000	10000
LBMT110N	Pipette Micro Tips, 10～200μL, with filter, non-sterile	1000	5000
LBMT1000N	Pipette Micro Tips, 100~1000μL, with filter, non-sterile	500	2500
LBMT1020NM	Pipette Micro Tips, 10~200μL, Multi-Racked Tip Box, sterile	480	24000

Quality Policy

We are committed to provide quality products and services at optimum cost and to continually improve the quality management system through TQM & ISO9001 approach.

To consistently deliver quality products by adhering to the set specifications, contractual, regulatory and statutory requirements

To motivate and train staffs for continual improvement of quality standards.

To update and implement procedures complying with international standards.

Mission Statement

To be worldwide leader in providing a wide variety of quality membrane / filtration products and application expertise, we aim to achieve this through non-stop improving product quality, innovating and expanding new product lines, increasing our efficiency and elevating the superior level of customer service

Certification

* ISO9001 Certificated
* CE Marker
* FDA Registration
* Western Standard
* Class 300,000 Clean Room

Branches and Warehouse

* North & South American
* Europe
* Asia
* Oceania