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MPPVICPK1 Optimizer 0.1 µm Filter

Optimized to deliver ultrapure water for trace elemental analysis.

material.....	polypropylene filter
Quality Level.....	300
feature	elemental trace analysis
packaging	pkg of 1 unit
pore size.....	0.1 µm pore size
compatibility.....	for use with Milli-Q® Element
.....	for use with Q-POD® Element
shipped in	ambient

Description

General description

Optimizer 0.1µm final filter is a lab water purification consumable that specifically removes trace particulates from ultrapure water.

Application

For use with Milli-Q® IQ Element and Q-POD® Element purification units which are designed to deliver ultrapure water suitable for trace and ultra-trace elemental analyses, including ICP-MS, GF-AAS and trace IC.

Features and Benefits

Manufactured according to the cleanliness norms used in the semiconductor industry.
The filter ensures that no particles are released in the ultrapure water.

Legal Information

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany
Q-POD is a registered trademark of Merck KGaA, Darmstadt, Germany



CPAFS8PRM

Kit: Progard® 3 + Millipak® 100

For use with AFS® 8/8D/16/16D systems (2003 range)

Quality Level.....300
composition(Polypropylene and EPDM)
packagingpkg of 1 kit
compatibility.....for use with AFS®

Description

General description

This water purification kit contains Millipak® 100 Bacteria Filter (MPGL10ZW1) and Progard® 3 Pretreatment Pack (PR0G00003). Millipak® filter removes bacteria from pure water before it enters the analyzer.
The Progard® Pack pretreats water by removing large particles, organic compounds and free chlorine from tap water.

Application

The filter provides bacteria- and particulate-free water suitable for laboratory use, including clinical analyzers.
The pretreatment pack protects the reverse osmosis (RO) membrane against mineral scaling, organic fouling and chlorine oxidation.

Features and Benefits

Millipak® 100 filter features:

0.22 µm Durapore® filter membrane for bacteria removal.

Low protein binding membrane yields high sample recovery with minimal loss of valuable product ensuring high-value filtration.

Progard® 3 Pretreatment Pack features:

Polyphosphate for anti-scaling protection.

Silver-impregnated activated carbon filter for free chlorine reduction and bacteriostatic protection.

Depth-filtration (0.5 µm) for removal of particles and colloids.

Other Notes

Directions for Use

Organism Retention: Microorganisms

Mode of Action: Filtering

Application: General laboratory analysis

Intended Use: Water purification

Instructions for Use: This item provides water filtered through 0.22 µm sterilizing-grade membranes. Refer to the system equipment user guide section "Using the System" (available on USB key in the system box).

Storage Statement: Store in a dry location

Disposal Statement: Dispose of in accordance with applicable federal, state and local regulations.

Legal Information

AFS is a registered trademark of Merck KGaA, Darmstadt, Germany

Durapore is a registered trademark of Merck KGaA, Darmstadt, Germany

MILLIPAK is a registered trademark of Merck KGaA, Darmstadt, Germany

PROGARD is a registered trademark of Merck KGaA, Darmstadt, Germany



SIMFILTER

Simfilter - 0.05 µm Final Filter

For Simplicity® systems

Quality Level.....300
packagingpkg of 1 unit
pore size.....0.05 µm pore size
compatibility.....for use with Simplicity® UV
.....for use with Simplicity®
shipped inambient

Description

General description

Simfilter is the final filter used to perform final filtration of dispensed water by removing particles greater than 0.05 µm. Simfilter - 0.05 µm Final Filter can be used with Simplicity® water purification systems.

Application

The Simfilter, when placed at the outlet of a Simplicity® water system, delivers water suited for any laboratory use where bacteria and/or particles must be kept low.

Features and Benefits

Genuine consumable for the replacement of SIMFILTER - Simfilter - 0.05 µm Final Filter.

Legal Information

SIMPLICITY is a registered trademark of Merck KGaA, Darmstadt, Germany



SQPAKBI0M1

SQPAK™ Bio Final Filter

For pyrogen, nuclease, protease and bacteria-free ultrapure water. Use with ultrapure dispensing module of Milli-Q® SQ 2Series systems.

UNSPSC Code..... 41104212

eCl@ss..... 33050190

Quality Level.....300

packaging.....pkg of 1 unit

compatibility.....for use with Milli-Q® SQ 2Series

Description

General description

To learn how Milli-Q® SQ 2Series water systems work and read a full overview, visit our dedicated page.

The SQPAK™ Bio Final filter ensures high-quality ultrapure (Type 1) water at the point of dispense.

The purification technology includes an ultrafiltration filter that removes bacteria, particulates and macromolecules (such as pyrogens, nucleases and proteases) from ultrapure water.

For use with the ultrapure dispensing module of Milli-Q® SQ 2Series configurations, such as Milli-Q® SQ 200/200P and Milli-Q® SQ 240C/240CV systems.

Application

The SQPAK™ Bio Final filter is useful for lab applications involving cell and molecular biology.

Features and Benefits

Easy replacement by simply twisting

Replacement is recommended after 3 months

Other Notes

Directions For Use: Organism Retention: Bacteria and pyrogens

Mode of Action: Ultrafiltration

Application: Cell culture media, molecular biology

Intended Use: Bioburden reduction

Instructions for Use: This item provides water filtered through ultrafiltration hollow fibers.

Storage Statement: Store in dry location

Disposal Statement: Dispose of in accordance with applicable federal, state and local regulations.

Legal Information

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

SQPAK is a trademark of Merck KGaA, Darmstadt, Germany



V0CPAK001

VOC-Pak® Polisher

material.....	carbon (activated)
.....	polyethylene (Luer Plug)
.....	polyethylene connector
.....	polypropylene housing
Quality Level.....	300
packaging	pkg of 1 unit
manufacturer/tradename	VOC-Pak®
parameter	≤2 bar pressure
.....	≤2.0 L/min flow rate
.....	5 °C temp. range (30 °C)
resistivity.....	>18.0 MΩ-cm (at 25 degree celcius)
L	12.7 cm
impurities	<5 ppb TOC
fitting.....	1/4 in. inlet connection (Gaz (straight) F connection and Luer F)
.....	1/4 in. outlet connection (Gaz (straight) F connection and Luer F)
compatibility.....	for use with Direct-Q® UV
.....	for use with Direct-Q®
.....	for use with Milli-Q® Direct
.....	for use with Milli-Q® Reference
.....	for use with Simplicity® UV
.....	for use with Simplicity®
.....	for use with Synergy® UV
.....	for use with Synergy®
shipped in	ambient

Description

General description

Production of volatile organic compound-free ultrapure water at the point of dispense of the Direct-Q® / Simplicity® / Synergy® / Milli-Q® Direct and Reference systems

VOC-Pak® Polisher is designed to purify ultrapure water in the final purification step at point-of-dispense of Type 1 water purification systems. It is an activated carbon-based cartridge specifically designed for the effective removal of volatile organic compounds (VOCs) from ultrapure water.

VOCs are environmental contaminants causing health and safety issues that needs to be routinely analyzed in water, soil, gas and air samples. Specifications for VOCs in drinking water have been established by different regulatory agencies in many countries. VOC-Pak® Polisher is, therefore, an excellent choice for scientists in need of VOC-free ultrapure water for their analytical applications.

Application

The VOC-Pak Polisher is used to produce VOC-free water for the analysis of VOCs in water by GC and GC-MS when fed by an ultrapure water system.

VOC-free water is suitable for glassware rinsing, blanks, reagents, sample preparation, standard solutions or dilutions in the analysis of those substances, or in studies where VOCs may interfere. It is used in the development of nanoparticle sensors[1][2] and nanoelectrodes.

Features and Benefits

Validated to produce 300 L of VOC-free ultrapure water.

Easy maintenance: the polisher is easily installed and replaced.

Bottom-tip is redesigned for a secured installation of the protection bell.

e-Sure tag for RFID connection with Q-POD® dispenser enables full traceability (data management) and automatic consumable status monitoring on the POD's touchscreen interface.

Certificate of Quality available online.

Provides a warranty of water suitable for VOC analysis: blanks and standards preparation; glassware cleaning; and sample dissolution (if VOCs are analyzed in a matrix other than water i.e., in soil).

Legal Information

DIRECT-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

Q-POD is a registered trademark of Merck KGaA, Darmstadt, Germany

SIMPLICITY is a registered trademark of Merck KGaA, Darmstadt, Germany

SYNERGY is a registered trademark of Merck KGaA, Darmstadt, Germany

VOC-PAK is a registered trademark of Merck KGaA, Darmstadt, Germany



VOC-PAK0A1 VOC-Pak® Polisher

Production of volatile organic compound-free water at the point of dispense of the Milli-Q® IQ/EQ 7 series water purification systems.

material.....carbon cartridge (activated)
Quality Level.....300
packaging.....pkg of 1 unit
manufacturer/tradenameVOC-Pak®
compatibility.....for use with Milli-Q® EQ 7000
.....for use with Milli-Q® EQ 7008
.....for use with Milli-Q® EQ 7016
.....for use with Milli-Q® IQ 7000
.....for use with Milli-Q® IQ 7003
.....for use with Milli-Q® IQ 7005
.....for use with Milli-Q® IQ 7010
.....for use with Milli-Q® IQ 7015
shipped inambient

Description

General description

VOC-Pak® Polisher is designed to purify ultrapure water for the analysis of volatile organic compounds (VOCs) in GC and GC-MS analyses. The polisher is made up of activated carbon specifically designed for the effective removal of VOCs from ultrapure water. This unit is an excellent choice for scientists in need of VOC-free ultrapure water for their analytical applications.

VOC-Pak® Polisher produces VOC-free water when fed with ultrapure water at the Q-POD® point of dispense of Milli-Q® IQ 7000, Milli-Q® IQ 7003/05/10/15 and Milli-Q® EQ 7000/08/16 water purification systems.

Application

VOC-Pak® Polisher is used to produce VOC-free water for GC and GC-MS analyses when fed with ultrapure water. The VOC-free ultrapure water delivered is suitable for preparation of blanks, standard solutions, reagents and samples used in the analysis of those substances,[1] or in situations where they may impact results, such as in electrochemistry studies.[2][3]

Features and Benefits

Validated to produce 300 L of VOC-free ultrapure water.

Carefree maintenance: the polisher is easily installed and replaced

Redesigned bottom tip for a secured installation of the protection bell.

e-Sure tag for RFID connection with Q-POD® dispenser enables full traceability (data management) and automatic consumable status monitoring on the POD's touchscreen interface.

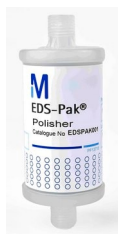
Certificate of Quality available online.

Legal Information

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

Q-POD is a registered trademark of Merck KGaA, Darmstadt, Germany

VOC-PAK is a registered trademark of Merck KGaA, Darmstadt, Germany



EDSPAK001

EDS-Pak® Polisher

Production of endocrine disruptor-free water

material.....	carbon cartridge (activated)
.....	polyethylene (Luer Plug)
.....	polyethylene connector (Vent Filter)
.....	polypropylene housing
Quality Level.....	300
feature	removes endocrine disruptors such as phthalate esters, Bisphenol-A and Nonylphenol
packaging	pkg of 1 unit
manufacturer/tradename	EDS-Pak®
parameter	2 L/min max. flow rate
.....	2 bar pressure
.....	5 °C temp. range (30 °C)
L	12.7 cm
impurities	<5 ppb TOC
compatibility.....	for use with Direct-Q® UV
.....	for use with Direct-Q®
.....	for use with Milli-Q® Advantage A10
.....	for use with Milli-Q® Direct
.....	for use with Milli-Q® Reference
.....	for use with Simplicity® UV
.....	for use with Simplicity®
.....	for use with Synergy® UV
.....	for use with Synergy®
shipped in	ambient

Description

General description

EDS-Pak® Polisher is an activated carbon-based cartridge to be connected at the outlet of ultrapure water equipment, at the outlet of the Q-POD® dispenser of the Milli-Q® Integral and Advantage A10 for the best results. EDS-Pak® cartridge media, it's housing, and connector materials are validated for the removal of several endocrine disrupters.

EDS-Pak® polisher can be installed on all Type 1 water purification systems that deliver ultrapure water with TOC < 5 ppb, including the Milli-Q®, Synergy®, Simplicity® and Direct-Q® systems.

Application

The EDS-Pak® polisher delivers endocrine disruptor-free water suitable for the preparation of blanks, reagents, and standard solutions used for the analyses of molecules such as Bisphenol A, phthalates and nonylphenol by GC-MS or LC-MS.

Features and Benefits

Point-of-use polisher for use with Milli-Q® and other Type 1 water purification systems.

Final purification step provides endocrine disrupter-free ultrapure water at a high flow rate.

Delivers a minimum of 300 L of EDS-free ultrapure water.

EDS-Pak® cartridge contains a specific type of activated carbon validated for efficient removal of endocrine disrupters (EDS) mainly bisphenol A, diethyl phthalate and di-n-butyl phthalate.

Each EDS-Pak® cartridge is delivered hermetically sealed, with its Certificate of Quality.

Other Notes

Before use, the EDS-Pak® unit must be conditioned with methanol to ensure that all binding surfaces are accessible to endocrine disrupters. Following this step, the cartridge should then be flushed with ultrapure water to remove any excess methanol. Once conditioned, the EDS-Pak® unit is warranted to deliver up to 300 L of EDS-free water when fed by ultrapure water with a TOC level < 5 ppb at a flow rate between 0.5 – 2 L/min.

A 50 mL glass syringe is required to condition the EDS-Pak® cartridge with methanol. This syringe is not provided.

Legal Information

DIRECT-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

EDS-PAK is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

Q-POD is a registered trademark of Merck KGaA, Darmstadt, Germany

SIMPLICITY is a registered trademark of Merck KGaA, Darmstadt, Germany

SYNERGY is a registered trademark of Merck KGaA, Darmstadt, Germany



EDSPAK0A1 EDS-Pak® Polisher

Production of endocrine disruptor-free water at the point of dispense of the Milli-Q® IQ/EQ 7 series

material.....	carbon cartridge (activated)
.....	polypropylene housing
Quality Level.....	300
packaging	pkg of 1 unit
manufacturer/tradename	EDS-Pak®
compatibility.....	for use with Milli-Q® EQ 7000
.....	for use with Milli-Q® EQ 7008
.....	for use with Milli-Q® EQ 7016
.....	for use with Milli-Q® IQ 7000
.....	for use with Milli-Q® IQ 7003
.....	for use with Milli-Q® IQ 7005
.....	for use with Milli-Q® IQ 7010
.....	for use with Milli-Q® IQ 7015
shipped in	ambient

Description

General description

EDS-Pak® Polisher, an activated carbon-based cartridge, efficiently removes organic contaminants such as phthalates, bisphenol A and nonylphenol. It is validated to produce 300L of endocrine disruptor-free water from Milli-Q® ultrapure water as the water source.

EDS-Pak®-treated ultrapure water is suitable for the preparation of buffers, blanks and standards employed in the quantification of endocrine disruptors.

Application

The EDS-Pak® Polisher is used to produce endocrine disruptor (ED)-free water at the point of dispense of Milli-Q® IQ and EQ 7 series. It efficiently removes trace levels of ED contaminants from ultrapure water for use in laboratory applications, such as to prepare samples, standard solutions or working solutions for the assessment of the environmental toxicity of bisphenols,[1] the analysis of endocrine disruptors in water, the analysis of pharmaceuticals and their degradation products in wastewater,[2] the testing of alkaloids in health food products,[3] and the analysis of alpha-lipoic acid in biological samples by chromatographic techniques.

Features and Benefits

Final purification step that delivers endocrine disruptor-free ultrapure water.

Validated for efficient removal of bisphenol A, diethylhexyl phthalate, di-n-butyl phthalate and nonylphenol.

Certificate of Quality available online.

Bottom-tip redesigned for secure installation of the protection bell.

Carefree maintenance: Easily installed and replaced.

e-Sure tag for RFID connection with Q-POD® dispenser enables full traceability (data management) and automatic consumable status monitoring on the POD's touchscreen interface.

Legal Information

EDS-PAK is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

Q-POD is a registered trademark of Merck KGaA, Darmstadt, Germany



QTUMMPEIX

Kit: Quantum® IX Cartridge & Millipak®

Kit with Millipak® 20 Express Filter, For use with Milli-Q® water purification systems.

material.....polyethersulfone filter
.....polypropylene and polyethylene cartridge
Quality Level.....300
packaging.....pkg of 1 kit
manufacturer/tradenameMillipak®
.....Quantum®
pore size.....0.22 µm pore size

Description

General description

This kit is composed of a Quantum® IX Cartridge and a Millipak® 20 Express Final Filter.

The Quantum® IX Polishing Cartridge contains a combination of purification media carefully selected to remove trace contaminants affecting specific applications.

The cartridge is constructed from polypropylene and polyethylene, which are suitable for the production of ultrapure water and are qualified for low organics and ionic extractables.

The Millipak® 0.22 µm hydrophilic membrane filter produces particulate- and bacteria-free water at the point of dispense of the water purification systems.

Application

The kit contains Organex and Ionex resins for the removal of trace levels of organics and ions.

Features and Benefits

Quantum® IX Polishing Cartridge has been designed to remove trace levels of organics and ions from ultrapure water

Millipak® 20 Express Filter is designed with a 0.22 µm PES (polyethersulfone) asymmetric membrane. The filter acts as a safe and efficient barrier against particulates and bacteria.

The membrane's conical pores allow a high flow rate at a low differential pressure.

The membrane, housing material, and production processes have been selected to minimize organic and inorganic extractable release.

The membrane is supported by a rigid plastic disc with channels that ensures high water flow and resistance to pressure variations without the risk of membrane rupture.

Other Notes

Directions for Use

Organism Retention: Microorganisms

Mode of Action: Filtering

Application: General laboratory analysis

Intended Use: Water purification

Instructions for Use: This item provides water filtered through 0.22 µm sterilizing-grade membranes. Refer to the system equipment user guide section "Using the System" (provided with the system)

Storage Statement: Store in a dry location

Disposal Statement: Dispose of in accordance with applicable federal, state and local regulations.

Legal Information

MILLIPAK is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

QUANTUM is a registered trademark of Merck KGaA, Darmstadt, Germany



QTUMMPKIX

Kit: Quantum® IX Cartridge & Millipak®

Kit with Millipak® 40 Express Filter, For use with Milli-Q® water purification systems.

material.....	PVDF filter
.....	polypropylene and polyethylene cartridge
Quality Level.....	300
packaging.....	pkg of 1 kit
manufacturer/tradename	Millipak®
.....	Quantum®
compatibility.....	for use with Milli-Q® Biocel
.....	for use with Milli-Q® Element
.....	for use with Milli-Q® Gradient
.....	for use with Milli-Q® Integral
.....	for use with Milli-Q® Synthesis

Description

General description

This kit is composed of a Quantum® IX Cartridge and a Millipak® 40 Final Filter.

The Quantum® IX Polishing Cartridge contains a combination of purification media carefully selected to remove trace contaminants affecting specific applications.

The cartridge is constructed from polypropylene and polyethylene, which are suitable for the production of ultrapure water and are qualified for low organics and ionic extractables.

The Millipak® 40 filter produces particulate- and bacteria-free water to meet the stringent requirements of scientific applications.

Application

The kit contains Organex and Ionex resins for the removal of trace levels of organics and ions.

Features and Benefits

Quantum® IX Polishing Cartridge has been designed to remove trace levels of organics and ions from ultrapure water.

Millipak® 40 filter is made with Durapore® PVDF membranes, which provide high flow rates and throughputs, low extractable and broad chemical compatibility.

The membrane is supported by a rigid plastic disc with channels that ensures high water flow and resistance to pressure variations without the risk of membrane rupture.

Millipak® membrane filters use a unique, clean stacked disc design, allowing minimal hold-up volume and particle shedding.

The Millipak® 40 filter connects to the outlet of the water delivery point, such as the PODs of Milli-Q® water purification systems.

Other Notes

Directions for Use

Organism Retention: Microorganisms

Mode of Action: Filtering

Application: General laboratory analysis

Intended Use: Water purification

Instructions for Use: This item provides water filtered through 0.22 µm sterilizing-grade membranes. Refer to the system equipment user guide section "Using the System" (provided with the system)

Storage Statement: Store in a dry location

Disposal Statement: Dispose of in accordance with applicable federal, state and local regulations.

Legal Information

Durapore is a registered trademark of Merck KGaA, Darmstadt, Germany

MILLIPAK is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

QUANTUM is a registered trademark of Merck KGaA, Darmstadt, Germany



QTUMMPPEEX

Kit: Quantum® EX Cartridge & Millipak®

Kit with Millipak® 20 Express Filter, For use with Milli-Q® Academic / Biocel / Gradient / Synthesis systems.

Quality Level.....300
packagingpkg of 1 kit
compatibility.....for use with Milli-Q® Academic
.....for use with Milli-Q® Biocel
.....for use with Milli-Q® Gradient
.....for use with Milli-Q® Synthesis

Description

General description

This kit contains a polishing Quantum® EX cartridge and a Millipak® 20 Express filter. The purification cartridge contains organex & ionex resins to remove trace levels of organics and ions. The Millipak® filter is made of polyethersulfone for the filter and styrene-acrylonitrile (SAN) housing. Connected to the outlet of the water delivery point, it removes particulates and bacteria to provide particulate- and bacteria-free water.

This kit can be used with Milli-Q® Academic / Biocel / Gradient / Synthesis systems.

Features and Benefits

Quantum® polishing cartridge:

Contains Organex and Ionex resins for trace organics and ion contaminants removal.

Care-free maintenance: easily installed and replaced.

Millipak® 20 Express filter:

The unit is designed as a safe and efficient barrier against particulates and bacteria.

The membrane's conical pores allow a high flow rate at a low differential pressure.

Connects to the outlet of the water delivery point, such as the PODs of Milli-Q® water purification systems.

The protective bell protects against intrusion of airborne bacteria contamination during dispensing.

Care-free maintenance: the filter is easily fitted and replaced.

Both items should be replaced every 6 months.

Other Notes

Directions for Use

Organism Retention: Microorganisms

Mode of Action: Filtering

Application: General laboratory analysis

Intended Use: Water purification

Instructions for Use: This item provides water filtered through 0.22 µm sterilizing-grade membranes. Refer to system equipment user guide section "Using the System" (provided with the system)

Storage Statement: Store in dry location

Disposal Statement: Dispose of in accordance with applicable federal, state and local regulations.

Legal Information

MILLIPAK is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

QUANTUM is a registered trademark of Merck KGaA, Darmstadt, Germany



QTUMMPKEX

Kit: Quantum® EX Cartridge & Millipak®

Kit with Millipak® 40 Express Filter, For use with Milli-Q® water purification systems.

material.....PVDF filter
polypropylene and polyethylene cartridge
 Quality Level.....300
 packaging.....pkg of 1 kit
 manufacturer/tradenameMillipak®
Quantum®

Description

General description

This kit is composed of a Quantum® EX Cartridge and a Millipak® 40 Final Filter.

The Quantum® EX Polishing Cartridge contains a combination of purification media carefully selected to remove trace contaminants affecting specific applications.

The cartridge is constructed from polypropylene and polyethylene, which are suitable for the production of ultrapure water and are qualified for low organics and ionic extractables.

The Millipak® 40 filter produces particulate- and bacteria-free water to meet the stringent requirements of scientific applications.

Application

The kit contains Organex and Ionex resins for the removal of trace levels of organics and ions.

Features and Benefits

Quantum® EX Polishing Cartridge has been designed to remove trace levels of organics and ions from ultrapure water

Millipak® 40 filter is made with Durapore® PVDF membranes, which provide high flow rates and throughputs, low extractable and broad chemical compatibility.

The membrane is supported by a rigid plastic disc with channels that ensures high water flow and resistance to pressure variations without the risk of membrane rupture.

Millipak® membrane filters use a unique, clean stacked disc design, allowing minimal hold-up volume and particle shedding.

The Millipak® 40 filter connects to the outlet of the water delivery point, such as the PODs of Milli-Q® water purification systems.

Other Notes

Directions for Use

Organism Retention: Microorganisms

Mode of Action: Filtering

Application: General laboratory analysis

Intended Use: Water purification

Instructions for Use: This item provides water filtered through 0.22 µm sterilizing-grade membranes. Refer to the system equipment user guide section "Using the System" (provided with the system)

Storage Statement: Store in a dry location

Disposal Statement: Dispose of in accordance with applicable federal, state and local regulations.

Legal Information

Durapore is a registered trademark of Merck KGaA, Darmstadt, Germany

MILLIPAK is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

QUANTUM is a registered trademark of Merck KGaA, Darmstadt, Germany



SQPAKFINM1

SQPAK™ Final Filter

For bacteria- and particulate-free ultrapure water. Use with ultrapure dispensing module of Milli-Q® SQ 2Series systems.

Quality Level.....300
packaging.....pkg of 1 unit
compatibility.....for use with Milli-Q® SQ 2Series

Description

General description

To learn how Milli-Q® SQ 2Series water systems work and read a full overview, visit our dedicated page.

SQPAK™ Final filter ensures high-quality, bacteria- and particulate-free ultrapure (Type 1) water at the point of dispense.

The purification technology includes a microfiltration filter that removes bacteria and particulates > 0.22 µm.

For use with the ultrapure dispensing module of Milli-Q® SQ 2Series configurations, including Milli-Q® SQ 200/200P and SQ 240C/240CV systems.

Application

The SQPAK™ Final filter is useful for lab applications such as chemistry and microbiology.

Features and Benefits

Easy replacement by simply twisting

Replacement is recommended after 6 months

Other Notes

Directions For Use: Organism Retention: Microorganisms

Mode of Action: Filtering

Application: General laboratory analysis

Intended Use: Water purification

Instructions for Use : This item provides water filtered through 0.22 µm sterilizing-grade membranes. Refer to the system equipment userguide section.

Storage Statement: Store in a dry location

Disposal Statement: Dispose of in accordance with applicable federal, state and local regulations.

Legal Information

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

SQPAK is a trademark of Merck KGaA, Darmstadt, Germany



OPTIA04NN1 Opticap® XL Filter

Produces bacteria- and particulate-free Type 2 pure water, for use with Milli-Q® CLX

material.....	membrane (0.22 µm Durapore® for bacteria removal)
Quality Level.....	300
sterility	sterile
packaging	pkg of 1 unit
manufacturer/tradename	Opticap®
impurities	<10 cfu/mL Microorganisms
total organic carbon (TOC) residue	<500 ppb
pore size.....	0.22 µm pore size
compatibility.....	for use with Milli-Q® CLX

Description

General description

The Opticap® filter is a pharmaceutical-grade sterilizing filter designed to remove bacteria and particulates from pure water before it enters the analyzer. Placed in the distribution loop, the loop panel with Opticap® XL Filter may be wall-mounted or standalone. The filter is compatible with Milli-Q® CLX 7000 series water purification systems.

Application

The Opticap® XL filter delivers bacteria- and particulate-free purified water for critical research applications.

Features and Benefits

0.22 µm Durapore® membrane for bacteria removal.
Ensure compliance with CLRW-quality specifications.
Delivered with a Certificate of Quality (CoQ).
Replace every 6 months for optimal results.

Components

Opticap® XL Filter with 0.22µm Durapore® membrane for bacteria removal.
Quality certificate.

Other Notes

Directions for Use Organism Retention: Microorganism.
Mode of Action: Filtration (size exclusion).
Application: General laboratory analysis.
Intended Use: Water purification.
Instructions for Use: Please refer to system equipment user guide section "Using the System" (available on USB key in the system box).
Storage Statement: Store in dry location.
Disposal Statement: Dispose of in accordance with applicable federal, state and local regulations.

Legal Information

Durapore is a registered trademark of Merck KGaA, Darmstadt, Germany
Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany
OPTICAP is a registered trademark of Merck KGaA, Darmstadt, Germany



CDUFBC001 Biopak® C Clinical Cartridge

Removes bacteria and bacterial by-products from water. For use with AFS® and Milli-Q® CLX systems.

UNSPSC Code 41104212
eCl@ss 33050190
NACRES NA.21

Quality Level.....	300
sterility	0.22 µm filtered
feature	better assay reliability, Reduces the need for frequent analyzer calibration
composition	(polysulfone hollow fibers)
packaging	pkg of 1 unit
manufacturer/tradename	BioPak®
parameter	≥1 bar pressure (3 bar)
.....	0.5 mL/min air diffusion at 2 bar
.....	1.5 L/min flow rate at 1 bar and 20 °C
.....	5 °C temp. range (35 °C)
volume.....	100 L
.....	100000 mL
total organic carbon (TOC) residue	<500 ppb (after 5 L Rinsing)
pore size.....	0.22 µm pore size
fitting.....	1/4 in. inlet connection (Gaz (Straight) Luer Slip F)
.....	.8 mm outlet connection (PTFE)
compatibility.....	for use with AFS®
.....	for use with Milli-Q® CLX
shipped in	ambient

Description

General description

The Biopak® C unit is an easy-to-install, disposable ultrafiltration cartridge that provides a final, in-line purification step for immunoassay and clinical chemistry analyzers.

The cartridge efficiently removes bacteria and bacterial by-products, such as alkaline phosphatase (ALP), from analyzer feed water, which is used to dilute reagents, make blanks, and rinse tubing and probes. This results in a more stable baseline and better assay reliability.

The Biopak® C ultrafiltration cartridge is composed of polysulfone hollow fibers. This membrane optimizes the rejection of bacterial ALP and bacteria while maintaining a high flow rate.

Application

When fed with high-quality pure water, the Biopak® C ultrafiltration cartridge efficiently removes bacterial by-products such as ALP, to provide optimum-quality water for use in ALP-sensitive immunoassays.

Features and Benefits

Produces ALP-free water (< 1 µUnits/µL).

Ensures bacteria levels below 10 cfu/mL (typically < 1 cfu/mL).

Designed to remove endotoxins, and to perform a pyrogen log reduction value superior or equal to 4, for pyrogen feed concentration between 1000 and 10 000 EU/mL, and a nuclease reduction from 1 µg/mL to less than 0.01 ng/mL at 1 bar feed water pressure.

Supports stable assay baselines, resulting in better assay reliability.

Reduces the need for frequent analyzer calibration.

Eliminates the need for frequent analyzer decontamination that results in costly downtime.

Includes: Self-adhesive label.

Replaced every 6 months for optimal results.

Components

Polysulfone hollow fibers for ALP and bacteria removal

Other Notes

Directions for Use

Organism Retention: Bacteria and pyrogens

Mode of Action: Ultrafiltration

Application: Cell culture media, molecular biology

Intended Use: Bioburden reduction

Instructions for Use: This item provides water filtered through ultrafiltration hollow fibers. Refer to insert, section "replacement" in the product package.

Storage Statement: Store in a dry location.

Disposal Statement: Dispose of in accordance with applicable federal, state and local regulations.

Legal Information

AFS is a registered trademark of Merck KGaA, Darmstadt, Germany

BIOPAK is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany



LCPAK00A1

LC-Pak® Polisher

Placed at the point of dispense of Milli-Q® IQ/EQ 7 series water systems. Suitable for HPLC, UHPLC, LC-MS and LC-MS/MS analyses.

material.....	cartridge (Reverse-phase C18 granular silica based cartridge)
Quality Level.....	300
feature	removal of trace organics
packaging	pkg of 1 unit
technique(s).....	LC/MS: suitable
.....	UHPLC: suitable
application(s).....	PFAS testing
compatibility.....	for use with Milli-Q® EQ 7000
.....	for use with Milli-Q® EQ 7008
.....	for use with Milli-Q® EQ 7016
.....	for use with Milli-Q® IQ 7000
.....	for use with Milli-Q® IQ 7003
.....	for use with Milli-Q® IQ 7005
.....	for use with Milli-Q® IQ 7010
.....	for use with Milli-Q® IQ 7015
shipped in	ambient

Description

General description

LC-Pak® Polisher is a purification cartridge containing C18 reversed phase porous granular silica. It is validated to achieve water quality suitable for trace and ultra-trace organic analyses.

The compact device provides efficient and convenient access to freshly purified ultrapure water from the Q-POD® point of dispense of Milli-Q® IQ and EQ 7 series.

Application

Ultrapure water treated by an LC-Pak® polisher is suitable for eluent, buffer and blank preparation, sample dilution and standard preparation in LC-MS[1] and LC-MS-MS[2][3] analyses.

Features and Benefits

Delivered with a Certificate of Quality.

Produces a minimum of 500 L of water suitable for trace and ultra-trace organic analysis, when fed with Milli-Q® ultrapure water.

Activate with high-grade methanol before use.

Delivered hermetically sealed with a syringe adapter.

Care-free maintenance: easily installed and replaced.

e-Sure tag for RFID connection with Q-POD® dispenser enables full traceability (data management) and automatic consumable status monitoring on the POD's touchscreen interface.

Legal Information

LC-PAK is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

Q-POD is a registered trademark of Merck KGaA, Darmstadt, Germany



LCPAK0001

LC-Pak® Polisher

Placed at the point of dispense of Direct-Q, Milli-Q Direct / Reference, Simplicity and Synergy systems, Designed for trace and ultra-trace organic analysis by HPLC, UHPLC, LC-MS, and LC-MS/MS

material.....	cartridge (Reverse-phase C18 granular silica based cartridge)
Quality Level.....	300
feature	removal of trace organics
packaging	pkg of 1 unit
manufacturer/tradename	LC-Pak®
technique(s).....	LC/MS: suitable
.....	UHPLC: suitable
volume.....	500 L
.....	500000 mL
compatibility.....	for use with Direct-Q® UV
.....	for use with Direct-Q®
.....	for use with Milli-Q® Direct
.....	for use with Milli-Q® Reference
.....	for use with Simplicity® UV
.....	for use with Simplicity®
.....	for use with Synergy® UV
.....	for use with Synergy®
shipped in	ambient

Description

General description

LC-PAK® Polisher is a purification cartridge containing granular C18 reversed phase silica. It is validated to achieve water quality suitable for trace and ultra-trace organic analyses.

The compact device provides efficient and convenient access to freshly purified ultrapure water from the point of dispense of compatible water purification systems.

Application

Ultrapure water treated by an LC-Pak® polisher is suitable for eluent, buffer and blank preparation, sample dilution and standard preparation in HPLC, UHPLC, LC-MS and LC-MS-MS analyses.[1][2][3]

Features and Benefits

Manufactured in an ISO 9001-compliant plant.

C18 granular silica in the polypropylene housing is tightly packed by a compression disc to avoid any channeling effect. This ensures that water passing through the LC-Pak® polisher is in close contact with the C18 chains binding organic molecules by hydrophobic interactions.

Produces a minimum of 500 L of water suitable for trace and ultra-trace organic analysis, when fed with Milli-Q® ultrapure water.

Care-free maintenance: the polisher is easily fitted and replaced.

LC-Pak® Cartridge is delivered hermetically sealed, with a Certificate of Quality

Activate with high-grade methanol before use.

Legal Information

DIRECT-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

LC-PAK is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

SIMPLICITY is a registered trademark of Merck KGaA, Darmstadt, Germany

SYNERGY is a registered trademark of Merck KGaA, Darmstadt, Germany



MPGL10ZW1
Millipak® Filter

Removes bacteria from pure water before entering the analyzer., For use with AFS® systems

material.....	PVDF membrane
Quality Level.....	300
sterility	non-sterile
feature	hydrophilic
packaging	pkg of 1 unit
manufacturer/tradename	Millipak®
L	13 cm (5.12 in.)
inlet connection diam.....	1/4 in.
outlet connection diam.....	1/4 in.
impurities	<0.5 EU/mL USP bacterial endotoxins (LAL test, sample aqueous extraction)
gravimetric extractables.....	≤2.5 mg/device
matrix.....	Durapore®
pore size.....	0.22 µm pore size
fitting.....	NPT inlet connection
.....	NPT outlet connection
compatibility.....	for use with AFS®
shipped in	ambient

Description

General description

Millipak® membrane products are designed for routine filtration applications in the laboratory. Millipak® filters are best-in-class proven products, utilized in lab water purification systems that provide particulate-free and bacteria-free purified water to benefit the stringent requirements for pure water.
Millipak® 100 Bacteria Filter removes bacteria from pure water before entering the analyzer.

Application

Provides bacteria-free and particulate-free water suitable for laboratory use, including clinical analyzers.
For use with AFS® water purification systems.

Features and Benefits

Hydrophilic Durapore® PVDF membranes for high flow rates and throughput.
Low protein binding membrane yields high sample recovery with minimal loss of valuable product ensuring high-value filtration.
Reduces the risk of microbial contamination.
Ideally suited for high value-added applications.
Device Configuration: Capsule

Components

0.22 µm Durapore® filter membrane for bacteria removal

Other Notes

These products are manufactured in a facility which adheres to FDA Good Manufacturing Practices.
Directions for Use
Organism Retention: Microorganisms
Mode of Action: Filtering
Application: General laboratory analysis
Intended Use: Water purification
Instructions for Use: This item provides water filtered through 0.22 µm sterilizing-grade membranes. Refer to system equipment user guide section "Using the System" (available on USB key in the system box).
Storage Statement: Store in dry location
Disposal Statement: Dispose of in accordance with applicable federal, state and local regulations.

Preparation Note

This product was manufactured with a Durapore® membrane which meets the criteria for a "non-fiber releasing" filter as defined in 21 CFR 210.3 (b) (6).

Analysis Note

Bacterial Retention

Samples were quantitatively retentive of a minimum *Brevundimonas diminuta* challenge concentration of 1×10^7 CFU/cm² using ASTM® F838 methodology.

Gravimetric Extractables: after 24 hours in water at controlled room temperature

Legal Information

AFS is a registered trademark of Merck KGaA, Darmstadt, Germany

ASTM is a registered trademark of American Society for Testing and Materials

Durapore is a registered trademark of Merck KGaA, Darmstadt, Germany

MILLIPAK is a registered trademark of Merck KGaA, Darmstadt, Germany



MPGP002A1
Millipak® Filter

0.22 µm membrane filter for particulate and bacteria-free water at the point of dispense for the Milli-Q® IQ, IX and EQ 7 series water purification systems.

material.....	polyethersulfone filter
Quality Level.....	300
packaging.....	pkg of 1 unit
manufacturer/tradename	Millipak®
pore size.....	0.22 µm pore size
compatibility.....	for use with Milli-Q® EQ 7000
.....	for use with Milli-Q® EQ 7008
.....	for use with Milli-Q® EQ 7016
.....	for use with Milli-Q® IX 7003
.....	for use with Milli-Q® IX 7005
.....	for use with Milli-Q® IX 7010
.....	for use with Milli-Q® IX 7015
.....	for use with Milli-Q® IQ 7000
.....	for use with Milli-Q® IQ 7003
.....	for use with Milli-Q® IQ 7005
.....	for use with Milli-Q® IQ 7010
.....	for use with Milli-Q® IQ 7015
shipped in	ambient

Description

General description

The Millipak® 0.22µm hydrophilic membrane filter is intended to produce particulate-free and bacteria-free water at the point of dispense of the Milli-Q® IQ 7000 system, Milli-Q® IQ 7003/05/10/15, Milli-Q® IX 7003/05/10/15 and Milli-Q® EQ 7000/08/16 water purification systems..
The filter is designed with a 0.22µm PES (polyethersulfone) asymmetric membrane filter heat-sealed on a styrene-acrylonitrile housing that serves to minimize organic and inorganic extractable release.

Application

Pure and Ultrapure water produced by a Millipak® 0.22 µm filter is suitable for many different laboratory applications, including microplastics research,[1] nanoparticle studies, food analyses and HPLC analyses.[2]

Features and Benefits

Each Millipak® 0.22µm filter is individually tested, hermetically sealed and delivered with a Certificate of Quality. Validated to deliver bacteria-free water (<0.01cfu/mL when installed and used in a laminar flow hood).
Carefree maintenance: Easily installed and replaced.
Redesigned bottom-tip for a secured installation of the protection bell.
Validated to deliver particulate-free water (no particles with size >0.22 µm)
e-Sure tag for RFID connection with E-POD® or Q-POD® dispenser enables full traceability (data management) and automatic consumable status monitoring on the POD's touchscreen interface.

Other Notes

Directions For Use:
Organism Retention: Microorganisms
Mode of Action: Filtering
Application: General laboratory analysis
Intended Use: Water purification
Instructions for Use: This item provides water filtered through 0.22 µm sterilizing-grade membranes. Refer to the system equipment user guide section "Using the System" (available on USB key in the system box).
Storage Statement: Store in a dry location
Disposal Statement: Dispose of in accordance with applicable federal, state and local regulations.

Legal Information

E-POD is a registered trademark of Merck KGaA, Darmstadt, Germany
MILLIPAK is a registered trademark of Merck KGaA, Darmstadt, Germany
Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany
Q-POD is a registered trademark of Merck KGaA, Darmstadt, Germany



MPGL04001

Millipak® Filter

0.22 µm membrane filter for particulate-free and bacteria-free water at the point of dispense for the Alpha-Q and Milli-Q® Academic / Biocel / Element / Synthesis / Plus / Gradient systems

material.....	PVDF membrane
Quality Level.....	300
sterility	non-sterile
feature	hydrophilic
packaging	pkg of 1 unit
manufacturer/tradename	Millipak®
inlet connection diam.....	1/4 in.
outlet connection diam.....	1/4 in.
impurities	<0.5 EU/mL USP bacterial endotoxins (LAL test, sample aqueous extraction)
gravimetric extractables.....	≤1.5 mg/device
matrix.....	Durapore®
pore size.....	0.22 µm pore size
fitting.....	NPT inlet connection
.....	outlet hose barb
compatibility.....	for use with Alpha-Q
.....	for use with Milli-Q® Academic
.....	for use with Milli-Q® Biocel
.....	for use with Milli-Q® Element
.....	for use with Milli-Q® Gradient
.....	for use with Milli-Q® Plus
.....	for use with Milli-Q® Synthesis
shipped in	ambient

Description

General description

Millipak® membrane products are designed for routine filtration applications in the laboratory. Millipak® filters are best-in-class proven products used in lab water purification systems to provide particulate-free and bacteria-free water to benefit the stringent requirements of scientific applications.

Application

Purified water filtered through a Millipak® 40 filter can be used for any laboratory work where water free of bacteria and/or particulates is needed.

Features and Benefits

Millipak® membrane filters are made with Durapore® PVDF membranes, providing high flow rates and throughputs, low extractable and broad chemical compatibility.

The membrane is supported by a rigid plastic disc with channels that ensures high water flow and resistance to pressure variations without the risk of membrane rupture.

Millipak® membrane filters use a unique, clean stacked disc design, allowing minimal hold-up volume and particle shedding.

Connect to the outlet of the water delivery point, such as the PODs of Milli-Q® water purification systems.

The protective bell protects against intrusion of airborne bacteria contamination during dispensing.

Care-free maintenance: the filter is easily fitted and replaced.

Other Notes

These products are manufactured in a facility which adheres to FDA Good Manufacturing Practices.

Directions For Use:

Organism Retention: Microorganisms

Mode of Action: Filtering

Application: General laboratory analysis

Intended Use: Water purification

Instructions for Use: This item provides water filtered through 0.22 µm sterilizing-grade membranes. Refer to the system equipment user guide section "Using the System" (available on USB key in the system box).

Storage Statement: Store in a dry location

Disposal Statement: Dispose of in accordance with applicable federal, state and local regulations.

Preparation Note

This product was manufactured with a Durapore® membrane which meets the criteria for a "non-fiber releasing" filter as defined in 21 CFR 210.3 (b) (6).

Analysis Note

Bacterial Retention

Samples were quantitatively retentive of a minimum *Brevundimonas diminuta* challenge concentration of 1×10^7 CFU/cm² using ASTM® F838 methodology.

Gravimetric Extractables: after 24 hours in water at controlled room temperature

Legal Information

ASTM is a registered trademark of American Society for Testing and Materials

Durapore is a registered trademark of Merck KGaA, Darmstadt, Germany

MILLIPAK is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany



MPGP04001

Millipak® Express Filter

0.22 µm membrane filter for particulate-free and bacteria-free water at the point of dispense, For use with Elix® Advantage and Milli-Q® Advantage A10 / Direct / Integral / Reference systems

material.....	polyethersulfone filter
.....	styrene-acrylonitrile (SAN) housing
Quality Level.....	300
sterility	non-sterile
feature	removal of particulates and bacteria
packaging	pkg of 1 unit
manufacturer/tradename	Millipak®
matrix.....	Durapore®
pore size.....	0.22 µm pore size
compatibility.....	for use with Elix® Advantage
.....	for use with Milli-Q® Advantage A10
.....	for use with Milli-Q® Direct
.....	for use with Milli-Q® Integral
.....	for use with Milli-Q® Reference
shipped in	ambient

Description

General description

The Millipak® 0.22 µm hydrophilic membrane filter produces particulate- and bacteria-free water at the point of dispense of the Milli-Q® Integral, Milli-Q® Advantage A10, Milli-Q® Direct, Milli-Q® Reference and Milli-Q® Reference A+ water purification systems. The filter is designed with a 0.22 µm PES (polyethersulfone) asymmetric membrane filter, heat-sealed on a styrene acrylonitrile housing. This minimizes organic and inorganic extractable release.

Application

Provides filtered water suitable for most analytical techniques used in the laboratory (e.g., preparation of solutions used in spectrophotometry, pH measurement, titrations, atomic absorption, Kjeldahl analysis, and HPLC).

Features and Benefits

The membrane is supported by a rigid plastic disc with channels that ensures high water flow and resistance to pressure variations without the risk of membrane rupture.

Millipak® membrane filters use the unique, clean stacked disc design, allowing minimal hold-up volume and particle shedding. The filters are designed with a 0.22 µm PES (polyethersulfone) asymmetric membrane filter heat-sealed on a SAN (styrene acrylonitrile) housing.

The membrane's conical pores allow a high flow rate at a low differential pressure.

The membrane, housing material and production processes have been selected to minimize organic and inorganic extractable release.

Connects to the outlet of the water delivery point, such as the PODs of Milli-Q® water purification systems.

The protective bell protects against intrusion of airborne bacteria contamination during dispensing.

Each filter is individually tested and delivered with a Certificate of Quality.

Care-free maintenance: the filter is easily fitted and replaced.

Other Notes

Directions for Use

Organism Retention: Microorganisms

Mode of Action: Filtering

Application: General laboratory analysis

Intended Use: Water purification

Instructions for Use: This item provides water filtered through 0.22 µm sterilizing-grade membranes. Refer to system equipment user guide section "Using the System" (available on USB key in the system box).

Storage Statement: Store in dry location

Disposal Statement: Dispose of in accordance with applicable federal, state and local regulations.

Legal Information

Durapore is a registered trademark of Merck KGaA, Darmstadt, Germany

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany

MILLIPAK is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany



MPGP02001

Millipak® Express Filter

0.22 µm membrane filter for particulate-free and bacteria-free water at the point of dispense, For use with Direct-Q®, Synergy® and Milli-Q® Academic / Biocel / Element / Synthesis / Gradient systems

material.....	polyethersulfone filter
.....	styrene-acrylonitrile (SAN) housing
Quality Level.....	300
sterility	non-sterile
feature	removal of particulates and bacteria
packaging	pkg of 1 unit
manufacturer/tradename	Millipak®
matrix.....	Durapore®
pore size.....	0.22 µm pore size
compatibility.....	for use with Direct-Q® UV
.....	for use with Direct-Q®
.....	for use with Milli-Q® Academic
.....	for use with Milli-Q® Biocel
.....	for use with Milli-Q® Element
.....	for use with Milli-Q® Gradient
.....	for use with Milli-Q® Synthesis
.....	for use with Synergy® UV
.....	for use with Synergy®
shipped in	ambient

Description

General description

The Millipak® 0.22 µm hydrophilic membrane filter is intended to produce particulate- and bacteria-free water at the point of dispense of the water purification systems. The filter is designed with a 0.22 µm PES (polyethersulfone) asymmetric membrane filter heat-sealed on a styrene acrylonitrile housing. This minimizes organic and inorganic extractable release.

Application

Purified water filtered through this filter can be used in any laboratory work where water free of bacteria or particulates is needed.

Features and Benefits

The unit is designed as a safe and efficient barrier against particulates and bacteria.

The membrane's conical pores allow a high flow rate at a low differential pressure.

The membrane, housing material, and production processes have been selected to minimize organic and inorganic extractable release.

The membrane is supported by a rigid plastic disc with channels that ensures high water flow and resistance to pressure variations without the risk of membrane rupture.

Connects to the outlet of the water delivery point, such as the PODs of Milli-Q® water purification systems.

The protective bell protects against intrusion of airborne bacteria contamination during dispensing.

Care-free maintenance: the filter is easily fitted and replaced.

Non-sterile. Delivered hermetically sealed, with its Certificate of Quality.

Other Notes

Directions for Use

Organism Retention: Microorganisms

Mode of Action: Filtering

Application: General laboratory analysis

Intended Use: Water purification

Instructions for Use: This item provides water filtered through 0.22 µm sterilizing-grade membranes. Refer to the system equipment user guide section "Using the System" (available on USB key in the system box).

Storage Statement: Store in a dry location

Disposal Statement: Dispose of in accordance with applicable federal, state and local regulations.

Legal Information

DIRECT-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

Durapore is a registered trademark of Merck KGaA, Darmstadt, Germany

MILLIPAK is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

SYNERGY is a registered trademark of Merck KGaA, Darmstadt, Germany



CDUFBI001

Biopak® Polisher

Ultrafilter for the production of pyrogen-, nuclease-, and bacteria-free water

material.....	polysulfone (Ultrafiltration Hollow Fibers)
Quality Level.....	300
feature.....	removal of pyrogen (endotoxins), nuclease and bacteria in water
packaging.....	pkg of 1 unit
manufacturer/tradename.....	BioPak®
impurities.....	<0.001 EU/mL Pyrogens (endotoxins)
.....	<0.01 ng/mL RNases
.....	<0.1 cfu/mL Bacteria
.....	<4 pg/μL DNases
compatibility.....	for use with Direct-Q® UV
.....	for use with Direct-Q®
.....	for use with Elix® Advantage
.....	for use with Milli-Q® Direct
.....	for use with Milli-Q® Reference
.....	for use with Simplicity® UV
.....	for use with Simplicity®
.....	for use with Synergy® UV
.....	for use with Synergy®
shipped in.....	ambient

Description

General description

The Biopak® Polisher is an ultrafiltration cartridge designed to produce water suitable for molecular biology, biochemistry and cell culture when fed with Milli-Q® purified water. It is validated for continuous use for 90 days.

Application

Biopak® Polisher is recommended for a wide range of laboratory applications such as molecular biology, cell culture and biochemistry, where bacteria, pyrogen and/or nuclease levels must be controlled. This includes bloodstream bacterial infections (BSIs) research,[1] electrochemical biosensor development,[2] endotoxin adsorption studies,[3] antimicrobial testing[4] and mRNA and protein detection.[5]

Features and Benefits

Minimizes risk of nuclease, pyrogen and bacteria contamination.

Eliminates the need for toxic agents such as DEPC, therefore improving safety, saving time and reducing costs.

Care-free maintenance: The polisher is easily installed and replaced; does not require sanitization.

Components

Ultrafiltration hollow fibers

Other Notes

Directions for Use

Organism Retention: Bacteria and pyrogens

Mode of Action: Ultrafiltration

Application: Cell culture media, molecular biology

Intended Use: Bioburden reduction

Instructions for Use: This item provides water filtered through ultrafiltration hollow fibers. Refer to insert, section "replacement" in the product package.

Storage Statement: Store in a dry location.

Disposal Statement: Dispose of in accordance with applicable federal, state and local regulations.

Legal Information

BIOPAK is a registered trademark of Merck KGaA, Darmstadt, Germany

DIRECT-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

ELIX is a registered trademark of Merck KGaA, Darmstadt, Germany

Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany

SIMPLICITY is a registered trademark of Merck KGaA, Darmstadt, Germany

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CDUFB10A1

Biopak® Polisher

Ultrafilter for the production of pyrogen-, nuclease-, protease- and bacteria-free water at the point of dispense of Milli-Q® IQ/IX/EQ systems

material.....	polysulfone filter
Quality Level.....	300
packaging.....	pkg of 1 unit
manufacturer/tradename	BioPak®
technique(s).....	ELISA: suitable
.....	PCR: suitable
.....	cell culture mammalian: suitable
compatibility.....	for use with Milli-Q® EQ 7000
.....	for use with Milli-Q® EQ 7008
.....	for use with Milli-Q® EQ 7016
.....	for use with Milli-Q® IX 7003
.....	for use with Milli-Q® IX 7005
.....	for use with Milli-Q® IX 7010
.....	for use with Milli-Q® IX 7015
.....	for use with Milli-Q® IQ 7000
.....	for use with Milli-Q® IQ 7003
.....	for use with Milli-Q® IQ 7005
.....	for use with Milli-Q® IQ 7010
.....	for use with Milli-Q® IQ 7015
shipped in	ambient

Description

General description

The Biopak® Polisher is an ultrafiltration cartridge designed to produce water suitable for molecular biology, biochemistry and cell culture when fed with Milli-Q® purified water. It is validated for continuous use for 90 days.

Application

Biopak® Polisher ultrafiltration cartridge is suitable for use with Milli-Q® IX 7003/05/10/15, Milli-Q® IQ 7000, Milli-Q® IQ 7003/05/10/15, Milli-Q® EQ 7000 and Milli-Q® EQ 7008/16 water purification systems. Designed for applications such as molecular biology, biochemistry and cell culture (when fed with Milli-Q® purified water), the Biopak® ultrafiltration unit removes macromolecules and larger biological structures, such as bacteria.

Biopak® Polisher is recommended for a wide range of laboratory applications where bacteria, pyrogen, nuclease and/or protease levels must be controlled.

This includes small-interfering RNA (siRNA) research,[1] RNA in situ hybridization,[2] microarray development,[3] or studies of protein synthesis machinery.[4]

Features and Benefits

Minimizes risk of nuclease, protease, pyrogen or bacteria contamination.

Eliminates the need for toxic agents such as DEPC, therefore improving safety, saving time and reducing costs.

Bottom-tip is redesigned for a secured installation of the protection bell.

Easy maintenance: the polisher is easily installed and replaced; does not require sanitization.

e-Sure tag for RFID connection with POD enables full traceability (data management) and automatic consumable status monitoring on the POD's touchscreen interface.

Other Notes

Directions For Use

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Pyrogens (endotoxins) < 0.001 EU/mL

RNases < 1 pg/mL

DNases < 5 pg/mL

Protease < 0.15 µg/mL

Bacteria < 0.01 CFU/mL

Legal Information

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Milli-Q is a registered trademark of Merck KGaA, Darmstadt, Germany



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