



## MN Sterilizer PES


### 1 Contents

MN Sterilizer PES	
Cat. No.	740401.50
Pack of	50

### 2 Product description

MN Sterilizer PES syringe filter units are designed to sterilize and remove particulates from aqueous solutions such as biological fluids, culture media, additives, buffers, and protein solutions. Due to the extremely low hold-up volume, these filter units are ideal for applications requiring maximum sample recovery. The hydrophilic 0.22 µm membrane filter is composed of a strong polyethersulfone film with exceptional stability and extremely low protein binding characteristics comparable to cellulose acetate membranes. The single-use filter units are supplied in individual, sterile packages.

### 3 Specifications

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

### 4 Instructions for use (aseptic technique)

- Draw liquid into a syringe that has a luer lock connector.
- Hold the blister part in one hand and peel off the protective backing.
- Attach the syringe to the luer inlet of the filter unit and remove the assembly from the package.
- Hold the syringe with the filter unit pointing up. Slowly press in the plunger until a few drops of the filtered solution appear. This assures proper wetting of the membrane and prevents air bubbles.
- Filter the content of the syringe into a suitable collection vessel.  
*NOTE: As the filter removes particulate, the syringe plunger will become harder to push and pressure will rapidly increase on the filter. Change the filter unit when filtration becomes too difficult.*
- Upon completion of filtration, discard the MN Sterilizer PES.



## MN Sterilizer PES

### 5 Symbols

	Presterilized with ethylene oxide
	Catalogue number
	Lot number
	Please read package insert
	Single use only
	Expiry date

### 6 Product use restriction / warranty

**Attention!** The MN Sterilizer PES filter units are developed, designed, and sold **for research purpose only**. They are not suited for clinical use (diagnostic, therapeutic or prognostic). MACHEREY-NAGEL does not assume any responsibility for damages due to improper application of our products or due to application of our products in other fields of application. The user has to ensure that the products used are suitable for the planned applications. Application on the human body is strictly forbidden. The user is liable of all damages resulting from such application. MACHEREY-NAGEL products are suited for qualified personnel only.

All goods have to be checked immediately upon receipt. Damage claims are only acceptable in writing within 8 working days of receipt of all the goods. In case of legitimate claims the buyer can only require replacement of the goods. If replacement is not possible, the buyer has the right to choose between alternative products with same value or refund. The buyer cannot claim further compensation. All returns must first be authorized by us in writing. We offer a one-year warranty from date of delivery that our products will conform to applicable specifications set forth in the product specifications if not sold to persons set forth in § 13 of German Civil Code. In such a case, the provisions of the German Civil Code shall be valid.

This warranty does not cover defects in or damage to the products which are due to improper installation or maintenance, misuse, neglect or any use other than ordinary commercial application.

Any discharge from liability will be void if a defect results from a heavily negligent or intentional breach of contract or if the buyer will be bodily injured as a result from a negligent or intentional breach.

The seller shall not be liable for the goods being fit for a particular purpose unless otherwise agreed upon, to which the buyer intends to put them.

This warranty is strictly exclusive. Any further damage compensation is impossible.

MACHEREY-NAGEL MAKES no other warranty of any kind whatsoever, and SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES OF ANY KIND OR NATURE WHATSOEVER; DIRECTLY OR INDIRECTLY; EXPRESS OR IMPLIED; INCLUDING; WITHOUT LIMITATION; AS TO THE SUITABILITY; REPRODUCIBILITY; DURABILITY; FITNESS FOR A PARTICULAR PURPOSE OR USE; MERCHANTABILITY; CONDITION; OR ANY OTHER MATTER WITH RESPECT TO MACHEREY-NAGEL PRODUCTS OR THE SALE OF MACHEREY-NAGEL PRODUCTS.

If not superseded by these terms the current terms and conditions for the sale of goods (export version) are additionally valid.

### 7 Service Bioanalysis

Technical support and customer service

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