



Membrane Technologies

# Certificate of Quality

The Hydrophilic PVDF Membrane Capsule filters have been manufactured in a **mdi** facility in compliance with **ISO 9001** regulations using **validated production processes**.

## **AseptiCap WL Hydrophilic PVDF Membrane Capsule Filters**

Catalog No.	: LWLX5401EEXX101	
Type	: LWL	
Pore Size	: 0.2 µm	
Lot Number	: LV2994L	Sl.No. 056
Manufacturing Date	: 2024 - 12	
Expiry Date	: 2029 - 12	

### SPECIFICATION

<b>Length</b>	10"
<b>Filter Media</b>	Hydrophilic PVDF Membrane
<b>Drainage Layers</b>	Polyester
<b>Housing</b>	Polypropylene
<b>Differential Pressure</b>	< 4Kg/cm <sup>2</sup> at 30 °C
<b>Maximum Operating Temperature</b>	80 °C @ < 2 Kg/cm <sup>2</sup>
<b>Sterilization</b>	2 Autoclaving cycles at 125 °C of 30 minutes each

### LOT RELEASE CRITERIA

#### 100% Integrity Tested

: The capsule filter has been tested for integrity by Air Diffusion Flow test and Bubble Point test using DI water.  
 Diffusion flows with DI water were: ≤ 30 ml/min @ 2.60 kg/cm<sup>2</sup>  
 Bubble point value with DI water was: ≥ 50 psi (3.44 Bar)

#### Typical Water Flow Rate

: 25 lpm @ 0.70 Kg/cm<sup>2</sup> @ 27 °C

#### Microbial Challenge Test

: Retains ≥ 10<sup>7</sup> organisms/cm<sup>2</sup> of *B. diminuta* ATCC 19146 challenge as per ASTM F838 methodology.

### VALIDATED FOR

#### Bubble point (50% IPA)

: The filter is certified/validated for integrity by Bubble point test using 50% IPA/Water solution. Bubble point ≥ 18 psi (1.24 Bar)

#### Heat Stability

: Maintains integrity after 2 autoclaving cycles at 125 °C of 30 minutes each.

#### Extractable

: Within limits as specified in USP.

#### Oxidizable matter

: Passes test as per USP.

#### Bacterial Endotoxin

: Filtrate meets the USP requirements for Sterile WFI of ≤ 0.25 EU/ml as determined by Limulus Amebocyte Lysate (LAL) test.

#### Biosafety

: Passes Biological Reactivity Tests, *In Vivo* for Class VI plastic as described in USP <88>.

#### Cytotoxicity

: Passes Biological Reactivity Tests, *In Vitro* as described in USP <87>.

#### Indirect Food Additives

: Passes as per FDA 21CFR 177.1520(a)1(i).

#### Particle Release

: Passes test as per USP <788>, "Particulate matter in Injections".

#### Fiber Release

: Complies with FDA 21CFR 210.3(b)(6).

#### Total Organic Carbon

: Meets USP <643> limit of 500 ppb for total organic carbon after flushing specified volume of water for injection.

#### Conductivity

: Meets USP <645> limit of 1.3 µS/cm at 25 °C for water conductivity after flushing specified volume of water for injection.

### CUSTOMER SUPPORT

**mdi** offers its unique interdisciplinary skills to provide solutions to specific problems. Please contact our factory or the local application specialist.

T. No.: COQ/CAP/012-03

Head of Quality Assurance

Issue Date: 16-Dec-24

### Advanced Microdevices Pvt. Ltd.

Jawahargarh Road,  
 Village-Tepla, Ambala, INDIA.  
 Tel: +91-171-2699290/2699274  
 Website: www.mdimembrane.com  
 Email: info@mdimembrane.com

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