

## Certificate of Quality

The Polyethersulfone Membrane Cartridge Filters have been manufactured in a **mdi** facility in compliance with **ISO 9001** regulations using **validated production processes**.

## AseptiSure KS PES Membrane Cartridge Filters

Catalog No. : CPK15036E0SS101

Type : CPPKS

Pore Size :  $0.1 \ \mu m \ (0.2 \ \mu m + 0.1 \ \mu m)$ Lot Number : CK5994L SI.No. 052

Manufacturing Date : 2024 - 12 Expiry Date : 2029 - 12

## **SPECIFICATION**

Length	2.5"
Filter Media	Polyethersulfone Membrane
Drainage Layers	Polyester
Plastic Components	Polypropylene
Differential Pressure	< 3.5 Kg/cm² at 25°C
Maximum operating Temperature	80 °C at < 2 Kg/cm²
Reverse Pressure	< 0.7 Kg/cm² at 25°C
Sterilization	25 Autoclave/ Steam sterilization cycles at 121°C for 30 minutes each

**LOT RELEASE CRITERIA** 

**100% Integrity Tested** : The cartridge filter has been tested for integrity by Bubble Point Test using purified

water. Bubble point with was:  $\geq$  65 psi (4.48 Bar).

**Typical Water Flow Rate** : 4.0 lpm @ 0.70 Kg/cm² @ 27 °C

Microbial Challenge Test: Retains ≥ 10<sup>7</sup> organisms/cm² of *Acholeplasma laidlawii (*ATCC 23206).

**VALIDATED FOR** 

Bubble point (50% IPA) : The filter is certified/validated for integrity by Bubble point test using 50%

IPA/Water solution. Bubble point ≥ 26 psi (1.79 Bar)

**Heat Stability** : Maintains integrity after 25 autoclave/ Steam sterilization cycles at 121°C for 30

minutes each.

Bacterial Endotoxin : Aqueous extracts exhibit < 0.25 EU/mL as established by Limulus Amebocyte

Lysate (LAL) test as per USP <85>.

**Extractable**: Within limits as specified in USP.

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  $\mu$ S/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/CAR/004-04

Om

Head of Quality Assurance

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