

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. : CPKX5436A0SS101

Type : CPPKS

Pore Size : $0.1 \mu m (0.45 \mu m + 0.1 \mu m)$ Lot Number : CK8530C SI.No. 004

SPECIFICATION

Length	10"
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 filters have been tested for integrity by Air Diffusion Flow Test using

purified water and Bubble Point Test using 50% IPA/Water solution.

Diffusion flows were: \leq 29 ml/min @ 3.52 kg/cm² Bubble point with was: \geq 31 psi (2.14 Bar).

Water Flow Rate : ≥ 18 lpm @ 0.70 Kg/cm² @ 27 °C

Microbial Retention : Retains ≥ 10⁷ organisms/cm² of *B. diminuta* ATCC 19146 challenge as per ASTM

F838-05 methodology.

VALIDATED FOR

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).

CUSTOMER SUPPORT

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

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Head of Quality Assurance Issue Date: 05-Mar-2020 Advanced Microdevices Pvt. Ltd.

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