

Certificate of Quality

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

AseptiCap KSO PES Membrane Capsule Filters

Catalog No. : LKOX5301EEXX101
 Type : LKSO
 Pore Size : 0.2 µm (0.45 µm + 0.2 µm)
 Lot Number : LK55571 SI.No. 023

SPECIFICATION

Length	5"
Filter Media	Polyethersulfone Membrane
Drainage Layers	Polypropylene
Differential Pressure	< 4Kg/cm ² at 30 °C
Housing	Polypropylene
Maximum Operating Temperature	80 °C @ < 2 Kg/cm ²
Sterilization	25 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: ≤ 15 ml/min @ 2.60 kg/cm²
 Bubble point value with DI water was: ≥ 50 psi (3.44 Bar)
 The capsule filter is also certified for integrity by Bubble point test using 50% IPA/Water solution.
 Bubble point with 50% IPA/Water solution is ≥ 16 psi (1.10 Bar)

Water Flow Rate

: ≥ 18 lpm @ 0.70 Kg/cm² @ 27 °C

Microbial Challenge Test

: Retains ≥ 10⁷ organisms/cm² of *B. diminuta* ATCC 19146 challenge as per ASTM F838-05 methodology.

VALIDATED FOR

Heat Stability

: Maintains integrity after 25 autoclaving cycles at 125 °C of 30 minutes each.

Extractable

: Within limits as specified in USP.

Oxidizable matter

: Passes test as per USP.

Biosafety

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

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.



Head of Quality Assurance

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An ISO 9001 Company