

# **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.

## BioPro KS-y PES Membrane Capsule Filters

: LBKS5401EEXT301 Catalog No.

Type : LBKS-S Pore Size : 0.2 µm

Lot Number : LK5994L SI.No. 045

Ster. No. : R2234 **Date of Sterilization** : 2024 - 12 **Expiry Date** : 2026 - 12

#### **SPECIFICATION**

| Length                        | 10"   |
|-------------------------------|---|
| Filter Media                  | Polyethersulfone Membrane   |
| Drainage Layers               | Polyester   |
| Housing                       | Polypropylene   |
| Differential Pressure         | < 4Kg/cm² at 30 °C  |
| Maximum Operating Temperature | 80 °C @ < 2Kg/cm²   |
| Sterilization                 | Pre sterilized by Gamma Irradiation dose between 25 kGy to 40 kGy |

## **LOT RELEASE CRITERIA**

100% Integrity Tested

: The Capsule filters have been tested for integrity by Air Diffusion test and Bubble

point test using DI water.

Diffusion flows were: ≤ 35 ml/min @ 1.54 kg/cm<sup>2</sup>

Bubble point was: ≥ 30 psi (2.07 Bar)

: 55 lpm @ 0.70 Kg/cm<sup>2</sup> @ 27 °C **Typical Water Flow Rate** 

**VALIDATED FOR** 

Sterility

: The sterilization process has been validated to assure Sterility Assurance Level

(SAL) of 10<sup>-6</sup> in accordance with ISO 11137.

**Microbial Challenge Test** 

**Bacterial Endotoxin** 

**:** Retains  $\geq 10^5$  organisms/cm<sup>2</sup> of *B. diminuta* ATCC 19146 challenge.

: 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.

Oxidizable matter

: Passes test as per USP.

**Biosafety** 

: Passes Biological Reactivity Tests, In Vivo for Class VI plastic as described in USP

**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/004-05

Head of Quality Assurance

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**An ISO 9001 Company**