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## Certificate of Quality

### Product Information

Part Number: QPPESFU500500022  
Lot Number: 180305021  
Pore Size: 0.22µm  
Expiry Date: 2021.03.17

### ISO 9001 Quality Standard

The product was manufactured according to ISO 9001 Quality Systems Standard.

### Non-Fiber Releasing

This product was manufactured using the membrane which meets the criteria for "non-fiber" releasing filters as defined in 21 CFR 210.3 (b) (6)

### Sterilization

This Product is gamma irradiate sterilization

### Bacterial Endotoxin

This Product was determined by LAL test according to current USP. An extract from the product contained was equal to or less than 0.25EU/mL

### Biosafety

This product meet the criteria of the USP<88>Biological Reactivity test for Class VI Plastics

### Membrane Testing Criteria

Membrane Solutions certify that the membrane was tested according to:

### Membrane Bubble Point Integrity

Products were tested according to an established procedure to determine the water bubble point of the product. The membrane bubble point of this lot is 50.8-66.7 psi.


### Flow Rate

Products met a flow rate of 33.5-40.4 ml/min/cm<sup>2</sup>@-10psi test by deionised water at 25°C,  
Products met a flow rate of 29.5-35.5 ml/min/cm<sup>2</sup>@-10psi test by 3.0% TSB solution at 25°C

### Bacterial Retention

Products were demonstrated the following retention levels using ASTM method F838-05.

Challenge Organism	LRV
<i>Brevundimonas diminuta</i> (ATCC 19146)	7

Tested By:  09-05-2018

QC Technician

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