

Issued : August 3, 2021

# ADVANTEC

Toyo Roshi Kaisha, Ltd.  
2-2-3, Uchisaiwaicho, Chiyoda-ku  
Tokyo, 100-0011 Japan

## Certificate

We hereby certify the quality of membrane filter as follows :

Product Name : Mixed Cellulose Ester type membrane filter  
ITEM : A020H047A  
LOT No. : 10322202  
PORE SIZE : 0.20  $\mu\text{m}$   
Use before : Mar. 31, 2024

Item	Result		
Bubble Point(MPa) *1	0.420 Min.		
Burst Strength(MPa)	0.285 Min.		
Water Flow Rate(mL/min $\cdot$ cm <sup>2</sup> ) *2	15.6 Min.		
Thickness( $\mu\text{m}$ )	134 Ave.		
RECOVERY (%)			
Pseudomonas diminuta ATCC 19146	101.5		
Sterility Test	Zero Growth		
Sterility Method		Sterilized by E.O.G.	

\*1 Bubble Point is determined in accordance with ASTM F316-03 Standard Test Methods for Pore Size Characteristics of Membrane Filters by Bubble Point and Mean Flow Pore Test.

\*2 Flow Rate is determined in accordance with ASTM F317-72 Standard Test Method for Liquid Flow Rate of Membrane Filters. Pressure -0.069MPa.

  
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Authorized Signature