



MCE MEMBRANE FILTER



PRODUCT DESCRIPTION

Biolife's mixed cellulose ester (MCE) filter membranes are composed of cellulose acetate and cellulose nitrate, are biologically inert, unsupported and naturally hydrophilic.

MCE membranes feature a grid with clearly defined lines spaced at 3.1mm intervals. The ink used is non-toxic and free of bacterial growth inhibitors.

MCE membranes are gamma-ray sterilized and are available individually or continuously packaged.

They have a diameter of 47 mm and are available with 0,22 μm pores, ideal for applications such as sterilizing filtration and bioassays, and with 0,45 μm pores, ideal for the clarification of aqueous solutions, removal and analysis of particles and microbiological analysis in food, pharmaceutical and beverage industries.

TECHNICAL CHARACTERISTICS

Pore Size (μm)	Bubble Point (psi)	Flow Rate (ml/min/cm ² - 10 psi)	Thickness (μm)
MCE 0.22	50.5-65.5	18-25	90-130
MCE 0.45	29-6.5	55-90	90-130

QUALITY CONTROL: MICROBIAL TEST

STERILITY

Culture Medium	Reference Test Standard	Test Result
3%TSB	The Seven Day Sterility Test as described by USP	No growth was observed
TSA		No growth was observed

BACTERIAL CHALLENGE TEST

Pore Size(μm)	Challenge Bacteria	Reference Test Standard	Test Result
MCE 0.22	<i>Brevundimonas diminuta</i> (ATCC 19146)	ASTM F838-05	Retention 10 ⁷ organisms/cm ² challenge.
MCE 0.45	<i>Serratia marcescens</i> (ATCC 14756)		Retention 10 ⁷ organisms/cm ² challenge.

RECOVERY TEST

Pore Size (μm)	Bacteria	Reference Test Standard	Test Result
MCE 0.45	<i>Faecal Coliform</i>	ASTM D 3508-78	Recovery of <i>Faecal Coliform</i> >90 %

STORAGE CONDITIONS AND SHELF LIFE

Store at 2-30° C. In these conditions the product is valid until the expiry date indicated on the label. Do not use after this date. Discard if there are obvious signs of deterioration.



**PRODUCTS**

Description	Type	Reference	Package
MCE gridded membrane filter,white, individually package, sterile.	Pore size 0,22(μm) , Ø 47(mm)	29BL4722W100	100 units
MCE gridded membrane filter,white, individually package, sterile.	Pore size 0,45(μm) , Ø 47(mm)	29BL4745W100	100 units
MCE gridded membrane filter,white, continuous package, sterile.	Pore size 0,22(μm) , Ø 47(mm)	29BL4722W150	150 units
MCE gridded membrane filter,white, continuous package, sterile.	Pore size 0,45(μm) , Ø 47(mm)	29BL4745W150	150 units

