



## 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  $\mu\text{m}$  pores, ideal for applications such as sterilizing filtration and bioassays, and with 0,45  $\mu\text{m}$  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 ( $\mu\text{m}$ )	Bubble Point (psi)	Flow Rate (ml/min/cm <sup>2</sup> - 10 psi)	Thickness ( $\mu\text{m}$ )
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( $\mu\text{m}$ )	Challenge Bacteria	Reference Test Standard	Test Result
MCE 0.22	<i>Brevundimonas diminuta</i> (ATCC 19146)	ASTM F838-05	Retention 10 <sup>7</sup> organisms/cm <sup>2</sup> challenge.
MCE 0.45	<i>Serratia marcescens</i> (ATCC 14756)		Retention 10 <sup>7</sup> organisms/cm <sup>2</sup> challenge.

#### RECOVERY TEST

Pore Size ( $\mu\text{m}$ )	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**

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

