

Membrane Solutions

Microbial Analysis Testing Range

Membrane Solutions







01 Gridded Membranes--Specification



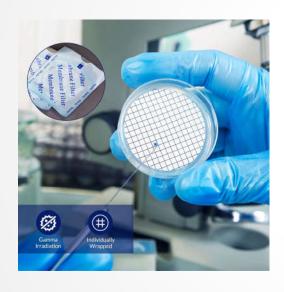




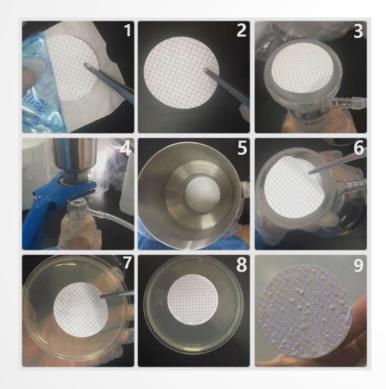
Specification				
Membrane	MCE/CN PES			
Color/Grid Grid 3.1*3.1mm	White /Black , MFMCE047045GWSW White/Plain MFMCE047045S Black /White MFMCE047045GBS			
Diameter (mm)	47/50/25/90			
Pore Size (μm)	0.45/0.22/0.8/1.0/0.65			
Sterilization	Gamma Ray			
Pack	Individual Pack MFMCE047045GWSW Continuous Pack MFMCE047045CWM MFMCE047045CWT MFMCE047045CWP			
	Available Pack with MS brand, Neutral, OEM			

Please refer the complete Part Number in Catalog

01 Gridded Membranes--Features



- Stable quality--assure productive testing result
- Excellent Performance
- **High Cost-effective**
- **On-time Delivery**
- Complete products range

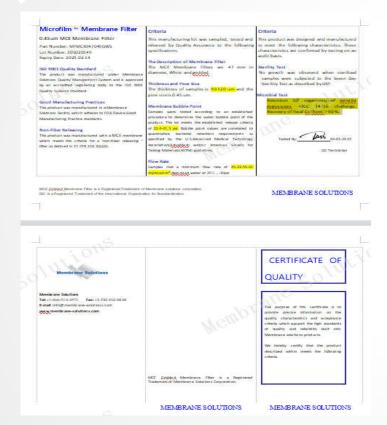


Sterility testing, gravimetric analysis, microbiological and particulate analysis, Microbial Limit Testing

Membrane Filtration Technique

Food Codex and Pharmacopeia in USA, Europe Union, Japan, Australia & New Zealand

- Accuracy
- Quantitative Result
- The membrane with colony could be preserved as testing result
- Avoid interfere from inhibitor



- Meet ISO7704, E. coli recovery rate > 90% Saccharomyces recovery rate > 90%
- Excellent Flow rate for different liquids
- Microbiological" friendly" ink promotes growth on grids to maximize recovery
- · Pre-Steriled by Gamma Ray, Shelf life is 3 years
- Detailed Quality Certificate offered lot by lot assure stable quality



Quality Certificate

01 Gridded Membranes--Capacity



Capacity: 140,000 pcs per day.

Delivery Time: 1-2 Weeks



01 Gridded Membranes--Comparison Testing Membrane Solutions





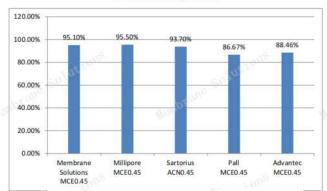




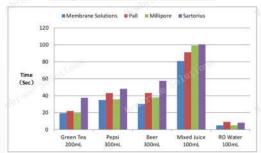
Membrane Solutions	Millipore	Sartorius	Pall	Whatman
MFMCE047022GWS	GSWG047S6	1140747ACN	/	10406970
MFMCE047045GWS	HAWG04700 HAWG04705 HAWG047S0 HAWG047S6	1140647ACN	66278 66068 66191 66020 66539	10407970 10406871 7141-104 7141-124
MFMCE047080GWS	AAWG04700 AAWG047S6			10408970
MFMCE050022GWS				10406972
MFMCE050045GWS	HAWG050S6		66539	10406873
MFMCE047022CWM	EZGSWG474	11407Z-47SCM	68123	
MFMCE047045CWM	EZHAWG474	11406Z-47SCM	68121	
MFMCE047080CWM	EZAAWG474		/	
MFMCE050022CWM		11407Z-50SCM		
MFMCE050045CWM	EZHAWG504	11406Z-50SCM		



Percent Recovery of E.coli



Average Filtration Time For Different Solutions



Comparison Testing Report

Recovery Rate Comparison (the higher the better)

Microbiological Recovery Comparison using E.coli and Saccharomyces cerevisiae						
Sample	E.coli ATCC#11775 Percent Recovery (R)	Saccharomyces cerevisiae ATCC#7754 Percent Recovery (R)	Meets ISO7704 Requirements (R≥80%)			
Membrane Solutions	95.1%	94%	Yes			
Competitor A	92%	89%	Yes			
Competitor B	90%	93%	Yes			
Competitor C	79%	81%	No			

Results and discussion

The requirements set forth by ISO 7704 have all been met. All MS filter products tested in this study achieved at least 90% recovery for the two organisms used: Escherichia coli and Saccharomyces cerevisiae.

Conclusion

Membrane Solutions Analytical Filter Units and Filter Funnels with MCE membranes pass the microbial recovery requirements set forth in ISO 7704. Their performance in this application makes them an excellent choice for use in water quality testing.

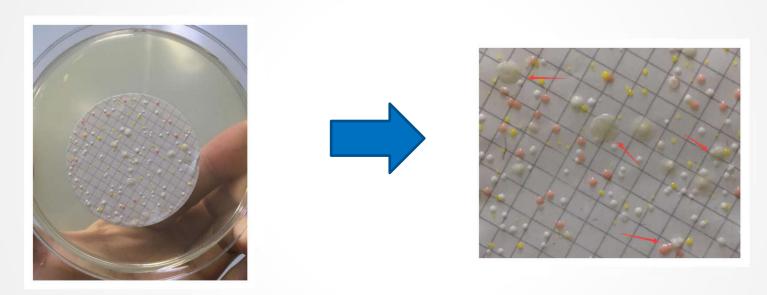
References

International Standard ISO 7704 - 1985 (E). Water Quality – Evaluation of membrane filters used for microbiological analyses. International Organization for Standardization. First Edition – 1985-03-15.

USP <1117> Microbiological Best Laboratory Practices. USP 35 or current edition. Official from May 1, 2012. © 2012 The United States Pharmacopeial Convention

01 Grid Membrane--Comparison Testing

Excellent Performance of Grids



Membrane Solutions High Performance MCE membrane uses microbiological – "friendly" ink which promotes growth on grids to maximize recovery

02 Application





Food &Beverage (Large Quantity)

Bottled Water, Beverage, Juice, Dairy, Wine, Beer, Food



Cosmetics

Industrial Microbiology



Water Test (Large Quantity)

Environment Testing, Water works Waste Water process



Pharmaceuticals















Pepsi In Colombia

Nestle In Mexico

Carlsberg in Kazakhstan

Coca Cola in Egypt

Fonti Prealpi in Italy

shiseido in Vietnam



Features

- Hands-free (no touch) sterile membrane dispensing
- Easy loading of sterile membrane roles
- Indicates number of used and remaining membranes
- High-speed dispending, < 1 second
- Compact size and portable
- Operates with 110/220V or 18650 Battery(5 hours)

Competitors:



Cost-effective Price of Continuous pack membranes higher thn individual pack membranes





Features:

- Compatible with VFMSM03
- Meet ISO7704, Excellent Microorganism retention rate
- High Throughput, High Flowrate
- Pre-sterilized by Gamma Ray, Shelf life 3 years
- Ergonomic, one-hand operation
- Saves time from workflow and self-contained unit avoid cross contamination

Compatible with:





Millipore: EZFITLOHE1, EZFITHIHE3 Pall: 4959, 4892 With No.8 Silicone Plug

05 Other Products--Bioset Monitor

Technical Specification

Filter Media	Mixed Cellulose Ester (MCE) or Polyether sulfone (PES)		
Material	Filter cup: PS (100ml) /PP (300ml)		
	Lid and base: PS		
Pore Size	0.45μm, 0.22μm; 0.8μm 3μm, 5μm etc		
Diameter of Membrane	47mm		
Volume of Filter Cup	p 100ml, 300ml		
Bacteria Recovery rate, E-coli	>80%, meets ISO7704		
Typical Water Flow Rate	Water Flow Rate 0.45 \(\mu \) m, 0.7 bar (70 kPa, 10 psi) : >35mL/min/cm ²		
Sterility	Irradiation sterilization for Food & Beverage grade		
	Ethylene Oxide for medical grade		



Fetures:

- Manifold, 1,3,6
- Funnel: 100/300/500ml SLS/Glass
- For use 47/50mmMembrane

Competitors







Millipore

Replaceable: VFM0103S, VFM0203S, VFMSM03

07 Absorbent Pad



Features:

- Available in sterile pack or non-sterile
- Available pack with Gridded Membranes
- Pure cellulose pad will not inhibit any bacterial grow
- Consistent thickness and bed volume
- Customized diameter is available
- Available with individual pre-sterilized pack
- Match common size of Petri-dishes