

# STL Membranes

## MEMBRANE FOR MICROBIOLOGICAL QUALITY CONTROL

We have designed an improved version of sterile, individually packed folded band (STL\*) of membranes (Fig 1) to be compatible with most commercially available membrane dispensers. STL membranes are widely used in the food, beverage, pharmaceutical and cosmetic industries to determine microbial contaminants. Accurate quantitation of microbial contaminants is performed via enrichment methods because of the minute amounts that are typically recovered. To this end, production processes, as well as finished products, are monitored at critical points (i.e., tanks, pipelines, filling units, etc.). The membrane filtration (MF) method is excellent for the determination and enumeration of microbial contaminants.

MicroPlus and ME membranes deliver:

- **Robustness:** The high mechanical strength means that the membranes will not rupture
- **Convenience:** Sterile, individually packed, folded (STL) band of filters are housed in dispenser boxes with 100 numbered membrane filters for easy removal and safe handling with a membrane dispenser (supplied in 4 boxes each with 100 membrane filters). Single sterile (ST) packed filters are also available
- **Speed and economy:** The combination of high flow rate and membrane composition from standard mixed cellulose esters means that you can accomplish your processes faster without the need to reestablish standard experimental procedures
- **Versatility:** The hydrophilic membranes are specifically made for aqueous solutions
- **Easy quantitation:** All the membrane filters have a high-contrast grid (3.1 mm), which allows convenient counting of the microbial colonies

## Method

The liquid was filtered through a membrane and the microorganisms were collected on the membrane surface. The filter was incubated on a nutrient medium and individual colonies were then evaluated. This method is suitable for large sample volumes and low microorganism counts.



Fig 1. Improved STL membranes for microbiological quality control

## Reliability

We performed rigorous product design and stringent quality controls to make sure that our membranes meet the highest of quality assurance and performance standards.

## Conclusion

We have redesigned and extended the performance range of STL membranes to give you the choice to use them with other commercially available membrane dispensers.

# Ordering information

Product	Diameter	Pore size	Description	Catalog no.
<b>MicroPlus (Cellulose Nitrate)</b>				
MicroPlus-21 STL membrane circles white	47mm	0.45 µm	Cellulose nitrate, 3.1 mm black grid, 400/pk	10407112
MicroPlus-21 STL membrane circles white	50 mm	0.45 µm	Cellulose nitrate, 3.1 mm black grid, 400/pk	10407114
MicroPlus-31 STL membrane circles black	47 mm	0.45 µm	Cellulose nitrate, 3.1 mm white grid, 400/pk	10407132
MicroPlus-31 STL membrane circles black	50 mm	0.45 µm	Cellulose nitrate, 3.1 mm white grid, 400/pk	10407134
MicroPlus-41 STL membrane circles green	47 mm	0.45 µm	Cellulose nitrate, 3.1 mm black grid, 400/pk	10407170
MicroPlus-41 STL membrane circles green	50 mm	0.45 µm	Cellulose nitrate, 3.1 mm black grid, 400/pk	10407172
<b>ME (Mixed Cellulose Ester)</b>				
ME 25/21 STL membrane circles white	47mm	0.45 µm	Mixed esters, 3.1 mm black grid, 400/pk	10407312
ME 25/21 STL membrane circles white	50 mm	0.45 µm	Mixed esters, 3.1 mm black grid, 400/pk	10407314
ME 25/31 STL membrane circles black	47 mm	0.45 µm	Mixed esters, 3.1 mm white grid, 400/pk	10407332
ME 25/31 STL membrane circles black	50 mm	0.45 µm	Mixed esters, 3.1 mm white grid, 400/pk	10407334
ME 25/41 STL membrane circles green	47 mm	0.45 µm	Mixed esters, 3.1 mm black grid, 400/pk	10407370
ME 25/41 STL membrane circles green	50 mm	0.45 µm	Mixed esters, 3.1 mm black grid, 400/pk	10407372
ME 24 membrane circles white	47 mm	0.2 µm	Mixed esters, 3.1 mm black grid, 400/pk	10408712
ME 24 membrane circles white	50 mm	0.2 µm	Mixed esters, 3.1 mm black grid, 400/pk	10408714
ME 25 membrane circles white	50 mm	0.45 µm	Mixed esters, 5 mm black grid, 400/pk	10407324
ME 27 membrane circles white	50 mm	0.8 µm	Mixed esters, 3.1 mm black grid, 400/pk	10408915
ME 25 Select 21 STL membrane circles white	50 mm	0.45 µm	Mixed esters, 3.1 mm black grid, 400/pk	10406802
ME 25 Select 21 STL membrane circles white	47 mm	0.45 µm	Mixed esters, 3.1 mm black grid, 400/pk	10406803

All STL filters are for use with most commercially available membrane dispensers, including the Whatman® Membrane-Butler. All filters are packaged sterile.

\*Sterile, individually packed folded band of membranes.

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