

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. |
|--|----------|-----------|--|-------------|
| MicroPlus (Cellulose Nitrate) | | | | |
| 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 |
| ME (Mixed Cellulose Ester) | | | | |
| 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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