Membranes for microbial Rapid Identification

Membrane Specification: sterile, diameter 70 mm

Storage Temperature: 2-8 °C (in the dark)

Description:
These membranes are for economical and rapid identification and confirmation of microorganisms in water, food, environmental and clinical samples. They find their application in various sectors in food and dairy industry, water industry, pharmaceutical laboratory testing, cosmetic industry, environmental and sanitary testing, clinical diagnostic etc.
After the routine inoculation and isolation technique the membranes enable the direct identification.

Directions:
1) **Inoculation and Isolation:** Inoculate the organisms from sample on any of general purpose media, nutrient agar, tryptic soy agar, plate count agar etc.
   Adopt any of surface plating methods as; spread plate method, quadrant (four or five) streak pattern or T streak method so as to obtain isolated colonies from inoculums.

2) **Incubation:** Incubate at 35-37°C for 18-24 hours.

3) **Replication:** For replication technique place the membrane on the surface of agar plate. Perform this step for maximum of 30 seconds to 1 min.. Mark the corresponding orientation of paper.

4) **Identification:** Incubate the replicated identification membrane in empty sterile Petri dish at 35-37°C for 1-4 hours or if desired membrane can be placed on dry lid of same plate & incubate in inverted position (*if lid has moisture wiped it with sterile cotton). Alternately the membrane may be kept for incubation on growth media at 35-37°C.
   Observe for development of color and interpret result

30374	**UTI ID Membrane (Urinary Tract Infections ID Membrane)**	For rapid detection and confirmation of microorganisms mainly causing urinary tract infection,for eg. *E. coli*, *Proteus*, *Klebsiella*, *Pseudomonas*, *S. aureus*, & *Enterococcus* species.
Appearance: White colored membrane		
Cultural Response: Identification observed within 1-4 hours after replication and incubation at 35-37°C, when membrane is placed on an 18 hour old grown culture plate of any general media.		
Organisms (ATCC)		**Color of Colony**
Escherichia coli (25922)		pink-purple
Staphylococcus aureus (25923)		golden yellow
Pseudomonas aeruginosa (27853)		colorless
Enterococcus faecalis (29212)		blue – blue green (small)
Klebsiella pneumoniae (13883)		blue to purple mucoid
Proteus mirabilis (12453)		light brown

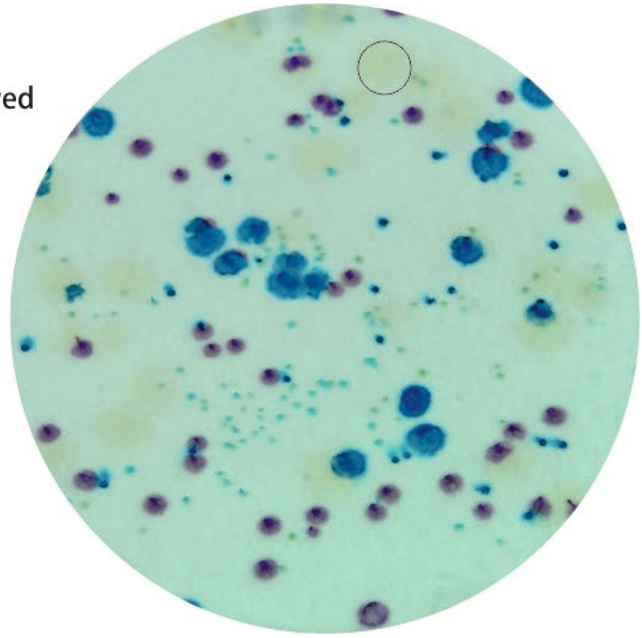
Pseudomonas aeruginosa (ATCC 27853)
colourless, greenish pigment may be observed

Klebsiella pneumoniae (ATCC 13883)
blue to purple coloured, mucoid

Esherichia coli (ATCC 25922)
pink to purple coloured

Enterococcus faecalis (ATCC 29212)
blue coloured small

Staphylococcus aureus (ATCC 25923)
Golden yellow



Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.