

Culture Media

MFC-050

Data sheet

Use

For enumerating fecal coliforms by the membrane filtration method.

Formula

Tryptose	10 g/l
Proteose Peptone	5 g/l
Yeast Extract	3 g/l
Sodium Chloride	5 g/l
Lactose	12,5 g/l
Bile Salts	1,5 g/l
Aniline Blue	0,1 g/l
Rosolic Acid solution 1%	10 ml/l

Precautions

- For industrial use only .
- Follow proper procedures for handling and disposing of infectious materials laboratory .

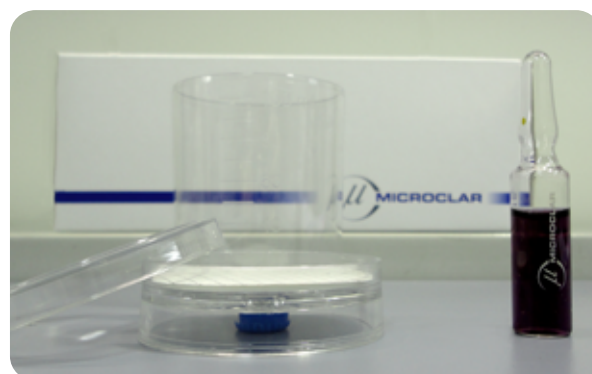
Directions

- 1) Remove the protective bag, remove the plug from the base .
- 2) Place the monitor on the connector previously placed on the manifold or drilled silicone stopper.
- 3) Remove the lid of the funnel and pour the sample into the funnel.
- 4) Apply vacuum just long enough to pull the sample through the filter.
- 5) Remove the rubber stopper of the collector to remove the remaining empty and then replace the cap on the collector.
- 6) Remove the funnel and distribute the culture media over the membrane filter. Be careful not to touch the filter with the tip of the ampoule.
- 7) Apply vacuum briefly to allow the culture media to go through the membrane and be absorbed by the cellulose pad, the time required for the medium crop does not fully rest on the filter (this must not be supersaturated or dry) and flow to the pad on the bottom of the monitor.
- 8) Remove the lid from the funnel and cover the base with it. Remove the base from the manifold or silicone stopper and close the bottom port of the base with the previously removed plug.
- 9) Incubate the so created Petri dish, inverted according to the culture media.

Reading results

Incubation: For 22 to 26 hs at 44.5 ± 2°C

Interpretation of results: Fecal coliforms appear blue, other colonies appear gray to cream colored. In some rare cases, a membrane may have confirmed fecal coliforms that are pink in color. This may be due to insufficient medium on the petri pad, excess moisture loss from Petri dish during incubation, or delayed observation of the colonies.



Limitations

- 1) Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.

QC Test

QC TEST MICROBIOLOGICAL

Cultural characteristics observed after 24 hs at 44.5 ± 2°C

MICROORGANISMS (ATCC)	RECOVERY RATE
<i>Escherichia coli</i> (25922)	≥ 50%
<i>Staphylococcus aureus</i> (6538)	Inhibited

Cultural characteristics observed after 72 hs at 37°C

STERILITY	RECOVERY RATE
	No growth

pH: 7.4 ± 0.2

Shelf life

18 months.

Storage

Store at room temperature.

Code

MFC-050

Packaging

Box of 50 glass ampoules .

For industrial use only.