

# Culture Media

**MIB-050P**

## Data Sheet

### Use

For the detection of Total Coliforms and E. coli by the membrane filtration method.

### Formula

Enzymatic Digest of Animal Tissue	5,0 g/l
Yeast Extract	3,0 g/l
Lactose	1,0 g/l
Sodium Chloride	7,5 g/l
Potassium Phosphate, Monobasic	1,0 g/l
Potassium Phosphate, Dibasic	3,3 gr/l
Sodium Lauryl Sulfate	0,2 g/l
Sodium Deoxycholate	0,1 g/l
Indoxyl-Beta-d-Glucuronide Cyclohexylammonium Salt	0,32 g/l
4-Methylumbelliferyl-Beta-d-Galactopyranoside (MUGal)	0,2 g/l
Cefsulodin	0,005 g/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 18 to 24 hs at 35 ± 2°C.

**Interpretation of results:** E. coli Count: Count all blue colonies on each Petri dish under normal/ambient light. Total Coliform Count: Expose each Petri dish to long wave ultraviolet light (366 nm); count all fluorescent colonies. E. coli = colonies fluoresce blue/green and/or fluoresce blue/green with fluorescent edges. Total Coliforms (other than E. coli) = fluoresce blue/white, and/or any blue, non-fluorescent colonies are considered Total Coliforms. These colonies should be added to the Total Coliform count.

### 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 35 ± 2°C

MICROORGANISM (ATCC)	RECOVERY RATE
<i>Escherichia coli</i> (25922)	≥ 70%
<i>Enterobacter aerogenes</i> (13048)	≥ 70%
<i>Staphylococcus aureus</i> (6538)	Inhibition

Cultural characteristics observed after 72 hs at 37°C

STERILITY	RECOVERY RATE
	No growth

pH: 7.0 ± 0.2

### Shelf life

12 months.

### Storage

Almacenar a temperatura ambiente.

### Code

MIB-050P

### Packaging

Box of 50 plastic ampoules.

For industrial use only.