

m-FAECAL COLIFORM BROTH (m-FC BROTH)

**Selective liquid medium for the enumeration
of faecal coliform organisms in waters**

Typical formula (g/l)

Tryptose	10.0
Peptocomplex	5.0
Yeast Extract	3.0
Sodium Chloride	5.0
Lactose	12.5
Bile Salts n° 3	1.5
Aniline Blue	0.1

Rosolic acid (vial contents)

Rosolic Acid	1 g
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Directions

Suspend 37 g in 1000 ml of cold distilled water, add 10 ml of Rosolic Acid (REF 4211901) 1% solution in 0.2 N NaOH. Heat to boiling with agitation, cool and use to saturate sterile absorbent pads for MF technique.

Final pH 7.4 ± 0.1

Description

m-Faecal Coliform Broth which is prepared according to the formula proposed by Geldreich, Clark and Bert, is used for the enumeration of the faecal coliform organisms in water by using the membrane filtration method.

Technique

Carry out the test by filtering a suitable volume of a water specimen and lay the filters upon absorbent pads imbibed with Faecal Coliform Broth in sterile dishes for MF technique (55mm diameter).

Within 30 minutes place in a water-bath at 44-45°C and incubate in airtight containers for 24 hours.

The faecal coliform organisms grow with blue colonies whilst the rare colonies formed by non-faecal coliform organisms are cream-grey coloured.

User quality assurance (44°C-24 h, MF)

Productivity control

E.coli ATCC 25922: growth, blue colonies

Selectivity control

E.faecalis ATCC 19433: inhibited

Storage

Dehydrated media: 10-30 °C

User prepared broth: 1 month at 2-8 °C

References

- APHA (1985) - Standard Methods of the Examination of Water and Wastewater. 16th edition.
- Geldreich, Clark, Huff and Bert (1965) J. Am. Waters Works Ass. **57**, 208.

Packaging

4014862	m-Faecal Coliform Broth,	500 g (13.5 l)
4211901	Rosolic Acid	10 x 1g