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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
MEMBRANE FAECAL COLIFORM AGAR (m-FC AGAR) MM0747		

MEMBRANE FAECAL COLIFORM AGAR (m-FC AGAR)

MM0747

Typical Formula*

grams per litre

Tryptose	10.0
Proteose peptone	5.0
Yeast extract	3.0
Lactose	12.5
Bile salts No.3	1.5
Sodium chloride	5.0
Aniline blue	0.1
Agar	12.9

* adjusted as required to meet performance standards

Directions

Suspend 50g in 1 litre of distilled water and boil for 1 minute to dissolve completely. Add 10ml of a 1% w/v solution of rosolic acid in 0.2N NaOH and boil for a further minute. Mix well and pour into sterile Petri dishes. **DO NOT AUTOCLAVE.**

Physical Characteristics

Straw, free-flowing powder
 Colour on reconstitution - blue (without rosolic acid)
 Moisture level - less than or equal to 7%
 pH - 7.4 ± 0.2 at 25°C
 Clarity - clear
 Gel Strength - firm, comparable to 12.9g/litre of agar

Microbiological Tests using Optimum Inoculum Dilution

Control Medium: Tryptone Soya Agar

Tested with the addition of 1% v/v of a 1% w/v solution of rosolic acid

Reactions after incubation at 44°C for 18 hours

Medium is challenged with 10-100 colony-forming units

Inoculation using membrane filtration technique

<i>Escherichia coli</i>	ATCC®11775	1-4mm blue colonies
<i>Escherichia coli</i>	ATCC®25922	1-4mm blue colonies

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A satisfactory result is represented by recovery of positive strains equal to or greater than 10% of the control medium.

Medium is challenged with 1E+04 to 1E+06 colony-forming units

Inoculation using surface plate technique

Enterococcus faecalis ATCC®19433 No growth

Negative strains are inhibited.

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Revision History

Section / Step	Description of Change	Reason for Change	Reference
Entire Document	Update to new document format and correction of typographical/minor errors. Addition of Control Media and Result Criteria.	Change control	BT-CC-1952