PRODUCT INFORMATION

Product Type: Little Dishes 50mm

Cat No. LD507 - M-FC AGAR

Intended Use:
m FC Agar is a selective and differential medium used for the detection and enumeration of fecal coliforms, particularly by the membrane filtration technique. Rosolic acid is added to increase selectivity by inhibiting non-fecal bacteria and enhancing color differentiation.
m FC Agar and is used with Rosolic Acid in cultivating and enumerating fecal coliforms by the membrane filter technique at elevated temperatures.

Principle and Uses:
m FC Agar contain peptones as sources of carbon, nitrogen, vitamins and minerals. Yeast extract supplies B- complex vitamins that stimulate bacterial growth. Lactose is a carbohydrate. Bile Salts No. 3 inhibits growth of gram-positive bacteria. m FC Agar contains agar as the solidifying agent. The differential indicator system combines aniline blue and Rosolic acid.

Expected Results
Colonies of fecal coliforms will be various shades of blue. Non-fecal coliforms are gray to cream-colored.

Limitation of the Procedure
A few non-fecal coliform colonies may be observed on m FC media due to the selective action of the elevated temperature and the addition of the Rosolic Acid. It may be useful to elevate the temperature to 45 ± 0.2°C to eliminate *Klebsiella* strains from the fecal *coliform* group.

Composition
Tryptose - 10.0 g/L
Proteose Peptone No. 3 - 5.0 g/L
Yeast Extract - 3.0 g/L
Lactose - 12.5 g/L
Bile Salts No. 3 - 1.5 g/L
Sodium Chloride - 5.0 g/L
Agar - 15.0 g/L
Aniline Blue - 0.1 g/L
1% solution of Rosolic Acid in 0.2N NaOH – 10ml/L

Storage: 2-8°C
Appearance: Dark purple, slightly opalescent.
pH Range: 7.2 - 7.6

Package contents: 5 plates in a package
Exp. Date: Printed on label and on the item.
Required materials not supplied: Laboratory equipment as required.

Warning and Precautions - For professional use only. Follow good microbiological lab practices while handling specimens and culture. Do not use Petri dishes if they show evidence of microbial contamination, discoloration, drying, cracking, or other signs of deterioration. Avoid freezing and overheating. The Petri Dishes may be used / inoculated up to the expiration date and incubated for the recommended incubation times. After use and prior to discarding, specimen containers and all contaminated material, including the used culture media and contaminated culture containers, must be sterilized or incinerated by validated procedures. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.
If excessive moisture is observed, invert the bottom over an off-set lid and allow to air dry in order to prevent formation of a seal between the top and bottom of the plate during incubation. Storage Instructions: On receipt, store plates in the dark at 2–8 °C. Avoid freezing and overheating. Do not open until ready to use.

Waste Disposal
After interpretation all items should be destroyed by standard incineration methods.

Performance Testing Results:
GPT: inoculum 10-100 cfu.
Inhibitory properties: inoculum 10000 cfu.

TEST	ATCC	Incubation Temp. (℃)	Incubation Cond.	Reaction 1	
Escherichia coli	25922	43-45 ℃	Aerobic, 24 hours	Pass	Blue
Escherichia coli	8739	43-45 ℃	Aerobic, 24 hours	Pass	Blue
Enterobacter aerogenes	13048	43-45 ℃	Aerobic, 24 hours	Pass	Cream-grey
Enterococcus faecalis	19433	43-45 ℃	Aerobic, 24 hours	Inhibited	

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