



MacConkey Agar without CV, NaCl and with 0.15% Bile Salts. 100 g / 500 g

Used selective isolation and differentiation of lactose fermenting and non-lactose fermenting enteric bacteria.

Product Presentation:

Cat No.	Product description	Pack Size
11130100100	MacConkey Agar without CV, NaCl and with 0.15% Bile Salts	100 Gram
11130100500	MacConkey Agar without CV, NaCl and with 0.15% Bile Salts	500 Gram

Principle

Pancreatic digest of gelatin serves as a source of carbon, nitrogen, long chain amino acids and other essential growth nutrients. The selective action of this medium is attributed to bile salts, which is inhibitory to most species of Gram-positive bacteria. Sodium chloride is deleted from the medium to provide an electrolyte deficient medium preventing *Proteus* spp. from spreading. In addition, this medium does not contain crystal violet allowing *Staphylococcus*, *Enterococcus* and *Mycobacterium* spp. to grow. .

Composition

Ingredients	Grams / Litre
Pancreatic Digest of gelatin	20.00
Lactose	10.00
Bile Salts	1.50
Neutral Red	0.075
Agar	12.00

Final pH (at 25°C) 7.1±0.2

*Formula adjusted, standardized to suit performance parameters

Type of specimen

Clinical samples - Faeces, Food and Dairy samples, Water samples.

Specimen Collection and Handling

Ensure that all samples are properly labeled. Follow appropriate techniques for handling samples as per established guidelines. Some samples may require special handling, such as immediate refrigeration or protection from light, follow the standard procedure. The samples must be stored and tested within the permissible time duration. After use, contaminated materials must be sterilized by autoclaving before discarding.

Directions

- ✓ Suspend 43.57 g of powder in 1000 mL distilled water.
- ✓ Mix thoroughly.
- ✓ Boil to dissolve the medium completely. Avoid Overheating.
- ✓ Sterilize by autoclaving 121°C for 15 minutes or as per validated cycle.
- ✓ Cool to 45°C-50°C and pour into sterile petriplates.

Storage and Stability

- ✓ Store Dehydrated culture media in cool, dry place at 10°C-30°C away from direct light.
- ✓ Store prepared medium at 2°C-8°C. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

FACTORY & OFFICE

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Quality Control

Dehydrated Appearance: Cream to pinkish beige coloured, homogenous, free flowing powder.

Prepared Appearance: Orange Red coloured, slightly opalescent gel forms in petridishes.

Growth Promotion Test: The cultural characteristics observed after an incubation at 30°C-35°C for 18 to 48 hours.

Cultural Response :

Organism	Type Culture	Growth	Colour of Colony	Incubation Temperature	Incubation Period
<i>Escherichia coli</i>	ATCC 8739	Good	Pink red with bile precipitate	30°C -35°C	18 Hours
<i>Salmonella enterica subsp. enterica serovar Typhimurium</i>	ATCC 14028	Good	Colourless	30°C -35°C	18 Hours
<i>Klebsiella aerogenes</i>	ATCC 13048	Good	Pale pink	30°C -35°C	18 Hours
<i>Proteus mirabilis</i>	ATCC 25933	Good	Colourless	30°C -35°C	18 Hours
<i>Enterococcus faecalis</i>	ATCC 29212	Good	Pale pink	30°C -35°C	18 Hours
<i>Staphylococcus aureus</i>	ATCC 25923	Good	Pale pink	30°C -35°C	18 Hours
<i>Acinetobacter baumannii</i>	ATCC 19606	Good	pink	30°C -35°C	18 Hours

Interpretation of Results

- ✓ Examination of plates for growth after completion of incubation period.

Warranty

- ✓ This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Disposal

Disposal of infectious material and material that comes in to contact with clinical sample must be decontaminated and dispose of by autoclaving or incineration or established laboratory procedures.

User must ensure safe disposal of used or unusable preparation of the products.

Reference

1. Murray P. R, Baron E, J., Jorgensen J. H., Tenover F. C., Tenover F. C., (Eds.), 8th Ed., 2003, Manual of Clinical Microbiology, ASM, Washington, D.C.
2. Wehr H. M. and Frank J. H., 2004, Standard Methods for the Microbiological Examination of Dairy Products, 17th Ed., APHA Inc., Washington, D.C
3. Atlas, R. M. (2005). Handbook for media for environmental microbiology. CRC press.

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