

MACCONKEY BROTH

Presentation

Flask with 100ml.

Sterilization method

Moist heat.

Application

Used for the cultivation of lactose-fermenting Gram-negative bacilli from water and food samples and as a presumptive test for coliforms.

Principle

MacConkey broth is a selective medium for Gram-negative lactose fermenting bacilli. It contains oxgall, which inhibits the growth of Gram-positive bacteria, and bromocresol purple as an indicator.

How to use

Inoculate according to the methodology used by the laboratory. Incubate for the time and temperature specified in the adopted technique.

Quality Control

Test	Result
Sterility	Absence of microbial growth
<i>Escherichia coli</i> ATCC 25922	Good growth
<i>Salmonella enterica</i> ATCC 14028	Good growth
<i>Enterococcus faecalis</i> ATCC 29212	Inhibited growth
Appearance	Liquid medium, purple, clear, free of precipitates or visible particles
pH at 25°C	7.4 ± 0.2

Results interpretation

Bacilli fermenting lactose: Good growth indicated by the color change of the medium from purple to yellow.

Bacilli non-fermenting lactose: Good growth, no color change.

Precautions and special care

Product intended for *in vitro* diagnostic use only.

Restricted for use by professionals. Do not inhale or ingest.

Do not use the product beyond the expiration date, with signs of contamination, or if it has changed color. In the presence of contamination, the product should be immediately discarded.

Do not use the product if the packaging is damaged or tampered with.

Storage

Store between 2-15°C in a dry place and protect from light.

Shelf-life

90 days from the date of manufacture.

Disposal of the product

After use, the product must be handled at the generating unit before environmentally appropriate final disposal, in accordance with official regulations.

Quality Guarantee

bioBoaVista guarantees the quality of its products as long as they are used according to their respective instructions and in accordance with national and international references. bioBoaVista does not take responsibility for the use of its products for purposes other than those described and approved by the company. All clinical diagnoses should be analyzed in conjunction with clinical evidence and not solely based on laboratory results.

References

1. Becton, Dickinson and Company. Difco & BBL Manual. Manual of Microbiological Culture Media, 2nd ed., 2009.
2. Farmacopeia Brasileira, 5ª ed., vol. 1, 2010.
3. ISO 11133:2014. Microbiology of food, animal feed and water - Preparation, production, storage and performance testing of culture media.