

OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
Neminath Industrial Estate No.6,
Navghar, Vasai (East), Palghar - 410210.
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990
Email: sales@oxfordlabchem.com /
info@oxfordlabchem.com
Web: www.oxfordlabchem.com

Oxford
Range of
Laboratory Chemicals

TECHNICAL DATA SHEET

MacConkey Broth w/BCP (Double Strength)

Principle

MacConkey Broth is composed of peptone, lactose, Oxgall, and bromocresol purple. Peptone provide nitrogen and other nutrients necessary for the growth of microorganism. Lactose is a carbon source and plays a important role for selection of lactose fermenting microbes. Oxgall is selective agents, inhibit growth of gram-positive organisms. Bromocresol purple is pH indicator dye. Bromocresol purple is less inhibitory than crystal violet and neutral red. Lactose-fermenting organisms shows prominent growth and produce acid and gas, causing the medium to turn yellow. Non-fermenting organisms produce good growth but will not produce acid or gas.

Use: For the presumptive identification of coliforms from water, milk and foods products.

Contents*

Ingredients	Gram/Liter
Peptone	40.00
Lactose	20.00
Oxgall	10.00
Bromocresol	0.02
Purple pH at 25°C	7.4 ±0.2

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 70.00 grams in 1000 ml distilled water, boil to dissolve the medium completely and distribute in test tubes with inverted Durham tube. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 min, cool it to 42-45 °C and inoculate test sample aseptically.

Specimens' types analyzed

Food, dairy and water samples, pharmaceutical samples, clinical and non-clinical samples. etc.

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Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	Light beige colored free flowing, homogeneous powder
Reaction of 7.0% solution	7.4 ±0.2 at 25 °C
pH	7.20- 7.60
Color and clarity of ready medium	Purple colored opalescent solution
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response: Cultural characteristics observed after incubation at 35±2°C for 18-24 hours. Inoculum 50-100 CFU.

Organism	ATCC	Growth	Acid production	Gas production
<i>Escherichia coli</i>	8739	Luxuriant	Yellow color (Positive)	Positive
<i>Klebsiella aerogenes</i>	13048	Luxuriant	Yellow color (Positive)	Positive
<i>Salmonella typhimurium</i>	14028	Poor	No colour change (Negative)	Negative
<i>Staphylococcus aureus</i>	25923	Inhibited	---	---

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Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. Atlas, R. M. (2005). *Handbook of media for environmental microbiology*. CRC press.
2. Difco Manual (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.
3. Rand, M. C., Arnold E. Greenberg, and Michael J. Taras, (1976), *Standard methods for the examination of water and wastewater*. Prepared and published jointly by American Public Health Association, American Water Works Association, and Water Pollution Control Federation.

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