

Technical Data

Bromocresol Purple Broth with Lactose

Bromocresol Purple Broth with Lactose is used for identification of *Escherichia coli* and coliform bacteria from water.

Composition**	
Ingredients	Gms / Litre
Peptic digest of animal tissue	10.000
Meat extract	3.000
Sodium chloride	5.000
Lactose	10.000
Bromo cresol purple	0.020
Final pH (at 25°C)	7.2±0.2
**Formula adjusted, standardized to suit performance parameters	

Directions

Suspend 28.02 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense in tubes containing Durhams tubes and sterilize by autoclaving at 115°C for 20 minutes.

Principle And Interpretation

The coliform group of bacteria is the principal indicator of suitability of water for domestic, industrial or other uses. The coliform group density has been established as a criterion of the degree of pollution and thus of sanitary quality. Faecal Streptococci and Enterococci are also indicators of faecal pollution (1). Where it is claimed that drinking water has been processed for safety, the finding of such organism demonstrates a failure of the process. It is a valuable bacterial indicator for determining the extent of faecal contamination of recreational surface waters or drinking water (2).

Bromo Cresol Purple Broth with Lactose is used for the identification of *Escherichia coli* and coliforms from water. It is used for enrichment and determining the titre of coliforms in the bacteriological analysis of drinking water (3, 4).

The medium contains peptic digest of animal tissue and meat extract, which supplies the essential nutrients for E. coli and other coliforms. Sodium chloride maintains the osmotic equilibrium of the medium. Lactose upon fermentation by coliforms produce acid and is indicated by the pH indicator bromo cresol purple. It turns yellow at acidic pH.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Purple coloured clear solution without any precipitate

Reaction

Reaction of 2.8% w/v aqueous solution at 25°C. pH : 7.2 \pm 0.2

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7.00-7.40 Cultural Response

Please refer disclaimer Overleaf.

M1265: Cultural characteristics observed after an incubation at 35-37°C for 18- 24 hours.

Organism	Inoculum(CF	'UGrowth	Acid	Gas
Cultural Response				
Escherichia coli ATCC 25922	50-100	good-luxuriant	positive reaction, yello colour	positive wreaction
Enterococcus faecalis ATC 29212	C 50-100	fair-good	variable reaction	negative reaction

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Klebsiella pneumoniae ATCC 13883	50-100	good-luxuriant	positive reaction, yellow	positive vreaction
Salmonella Typhimurium ATCC 14028	50-100	good-luxuriant	colour negative reaction, no colour change	negative reaction

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

Reference

1. Eaton A. D., Clesceri L. S. and Greenberg A. E., (Eds), 1998, Standard Methods for the Examination of Water and Waste water, 20th Ed, APHA, Washington, D.C.

2. Corry J. E. L., Curtis G. D. W., and Baird R. M., Culture Media for Food Microbiology, Vol. 34, Progress in Industrial Microbiology, 1995, Elsevier, Amsterdam

3. Deutsche Einheitsverfahren zur Wasser- Abwasser- und Schalmmuntersuchung. VCH Verlagsgesellschaft, D-6940, Weinheim.

4. Verordnung über Trinkwasser und über Wasser für Lebensmittelbetriebe vom 12. Dezember, 1990, Bundesgesetzbl., Teil I;2613-2629.1990.

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