



AATCC Bacteriostasis Broth

Intended Use:

Recommended for routine antibacterial testing of antiseptics and disinfectants.

Composition**

Gms / Litre
10.000
5.000
5.000
6.8±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 20.0 grams in 1000 ml purified / distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and dispense as desired

Principle And Interpretation

AATCC Bacteriostasis Broth (FDA Broth) is useful for subcultures in phenol coefficient and dilution tests of bacteriostatic, germicidal, sporicidal activity (4) and also as a base for the preparation of AATCC Bacteriostasis Agar (3). Peptone and HM peptone B are sources of carbon, nitrogen, vitamins and minerals. Sodium chloride provides essential ions. The test cultures of *Escherichia coli* and *Staphylococcus aureus* are grown in AATCC Bacteriostasis Broth for 24 hours. 1 ml of this culture is mixed with 150 ml of AATCC Bacteriostasis Agar (M231) and poured into the plate. After the agar solidifies, apply a circular sterile test fabric of 28.6 mm diameter onto the plate. Incubate at 35-37°C for 18-24 hours and observe the inhibition of growth around test fabric

Type of specimen

Disinfectant solution samples.

Specimen Collection and Handling

For disinfectant solution samples, follow appropriate techniques for sample collection and processing as per guidelines (1,2). After use, contaminated materials must be sterilized by autoclaving before discarding.

Warning and Precautions

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling specimens. Safety guidelines may be referred in individual safety data sheets.

Limitations :

1. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium

2.Each lot of the medium has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user's unique requirement.

Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

M221

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Amber coloured clear solution in tubes.

Reaction

Reaction of 2.0% w/v aqueous solution at 25°C. pH : 6.8±0.2

pН

6.60-7.00

Cultural Response

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

Organism	Inoculum (CFU)	Growth
Escherichia coli ATCC 25922 (00013*)	50-100	good-luxuriant
Pseudomonas aeruginosa ATCC 27853 (00025*)	50-100	good-luxuriant
Staphylococcus aureus subsp. aureus ATCC 6538 (00032*)	50-100	good-luxuriant
Salmonella Typhi ATCC 6539	50-100	good-luxuriant

Key: *Corresponding WDCM numbers.

Storage and Shelf Life

Store between 10-30°C in a tightly closed container and the prepared medium at 15-25°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to prevent lump formation due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in dry ventilated area protected from extremes of temperature and sources of ignition Seal the container tightly after use. Use before expiry date on the label.

Product performance is best if used within stated expiry period.

Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with sample must be decontaminated and disposed of in accordance with current laboratory techniques (1,2).

Reference

- 1. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
- 2. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

3.Tech. Manual of AATCC, 1985, Vol. 61, AATCC, Research Triangle Park, N.C.

4. Williams (Ed.), 1995, Official methods of Analysis of AOAC, 16th ed. AOAC, Washington D.C.

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Disclaimer :

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