

Technical Information

AATCC Bacteriostasis Broth

Product Code: DM 1221

Application: AATCC Bacteriostasis Broth is used for routine testing of antiseptics and disinfectants for their antibacterial activity.

Composition**

Ingredients	Gms / Litre
Peptic digest of animal tissue	10.000
Beef extract	5.000
Sodium chloride	5.000
Final pH (at 25°C)	6.8±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

AATCC Bacteriostasis Broth (FDA Broth) is medium useful for subcultures in phenol coefficient and dilution tests of bacteriostatic, germicidal, sporicidal activity and also as a base for the preparation of AATCC Bacteriostasis Agar ^(1,2). Peptic digest of animal tissue and beef extract 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 (DM 1231) and poured into the plate. After the agar solidifies, a circular sterile test fabric of 28.6 mm diameter is applied onto the plate. and Incubated at 35-37°C for 18 - 24 hours. Observe the plate for the inhibition of growth around test fabric accordingly

Methodology

Suspend 20 grams of powder media in 1000 ml distilled water. Shake well and heat if necessary to dissolve the medium completely. Mix well and dispense in tubes as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical 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 25⁰ C pH :6.8±0.2

pH Range:- 6.60-7.00

Cultural Response/Characteristics

DM 1221: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours

Organism	Inoculum (CFU)	Growth
<i>Escherichia coli</i> ATCC 25922	50-100	good-luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 27853	50-100	good-luxuriant
<i>Salmonella Typhi</i> ATCC 6539	50-100	good-luxuriant
<i>Staphylococcus aureus</i> ATCC 6538	50-100	good-luxuriant



Dehydrated Culture Media
Bases / Media Supplements

Storage and Shelf Life

Dried media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

Prepared Media: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

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

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

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