

Technical Information

AATCC Bacteriostasis Agar

Product Code: DM 1231

Application: - AATCC Bacteriostasis Agar is used for the detection of antibacterial activity of fabrics In textile industries.

Composition**

Ingredients	Gms / Litre
Peptic digest of animal tissue	10.000
Beef extract	5.000
Sodium chloride	5.000
Agar	15.000
Final pH (at 25°C)	7.2±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

AATCC Bacteriostasis Agar is used in accordance with the standard procedure ^(1, 2, 3) for detection of an antibacterial activity of the fabrics. It may be used to stock cultures of *Escherichia coli* and *Staphylococcus aureus* also. 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 (DM1221) for 24 hours. 1 ml of this culture is mixed with 150 ml of AATCC Bacteriostasis Agar and poured on to the plate. After the agar solidifies, a circular sterile test fabric of 28.6 mm diameter is applied onto the plate. The plates are incubated at 35°C for 18 - 24 hours and observe for inhibition of growth around the test fabric.

Methodology

Suspend 35 grams of powder media in 1000 ml distilled water. Shake well and heat to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (12 1°C) for 15 minutes. Mix well and pour into sterile Petri plates

Quality Control

Physical Appearance

Cream to yellow homogeneous free flowing powder

Gelling

Firm comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Amber coloured clear to slightly opalescent gel forms in Petri plates.

Reaction

Reaction of 3.5% w/v aqueous solution at 25^o C pH :7.2±0.2

pH Range:- 7.00-7.40

Cultural Response/Characteristics

DM 1231: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth	Recovery
<i>Escherichia coli</i> ATCC25922	50-100	good-luxuriant	>=70%
<i>Pseudomonas aeruginosa</i> ATCC 27853	50-100	good-luxuriant	>=70%
<i>Salmonella Typhi</i> ATCC 6539	50-100	good-luxuriant	>=70%
<i>Staphylococcus aureus</i> ATCC 6538	50-100	good-luxuriant	>=70%



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.
- 3 Ruuhle and Brewer, 1931, USDA Methods of Testing Antiseptics and Disinfectants, USDA Circ.: 198.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conform solely to the technical information provided in this booklet and to the best of knowledge research and development work carried a at **CDH** is true and accurate
- **Central Drug House Pvt. Ltd.** reserves the right to make changes to specifications and information related to the products at any time.
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.
- Do not use the products if it fails to meet specifications for identity and performance parameters.

