Technical Information

AATCC Bacteriostasis MiVeg Broth

Product Code :VM1221

Application:- AATCC Bacteriostasis MiVeg broth is used for routine antibacterial testing of antiseptics and disinfectants.

Composition

Ingredients	Gms / Litre
MiVeg peptone	10.00
MiVeg extract	5.00
Sodium chloride	5.00
Final pH (at 25°C)	6.8 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

AATCC Bacteriostasis MiVeg Broth is the modifications of AATCC Bacteriostasis Broth in which the animal based peptones is replaced by vegetable peptones which makes the media BSE/TSE risk free. AATCC Bacteriostasis MiVeg Broth is useful for subcultures in phenol coefficient and dilution tests and tests of bacteriostatic, germicidal, sporicidal activity (1) and also as a base for the preparation of AATCC Bacteriostasis MiVeg Agar (2). AATCC Bacteriostasis MiVeg Broth, like the conventional media serves the same above mentioned purposes.

The test cultures of *Escherichia coli* and *Staphylococcus aureus* are grown in AATCC Bacteriostasis MiVeg Broth for 24 hours. 1 ml of this culture is mixed with 150 ml of AATCC Bacteriostasis MiVeg Agar (VM1231) 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.

MiVeg peptone and MiVeg extract provides nitrogenous nutrients and sodium chloride maintains the osmotic balance of the medium.

Methodology

Suspend 20 grams of powder media in 1000 ml distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance

Yellow coloured, may have slightly greenish tinge, 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 is pH: 6.80±0.2 at 25°C

pH range

6.60-7.00

CulturalResponse/Characteristics

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

Organisms (ATCC)	Inoculum (CFU)	Growth
Escherichia coli (25922)	10^2	luxuriant
Staphylococcus aureus (6538)	10^2	luxuriant

Pseudomonas aeruginosa (27853)	10^2	luxuriant
Salmonella serotype Typhi (6539)	10^2	luxuriant

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: 2-8^0 in sealable plastic bags for 2-5 days.

Further Reading

1. Williams (Ed.), 2005, Official methods of Analysis of AOAC, 18th ed. AOAC, Washington D.C.
2. Tech. Manual of AATCC, 1985, Vol. 61, AATCC, Research Triangle Park, N.C.

Disclaimer :

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