

TM 1938 – AATCC BACTERIOSTASIS AGAR

INTENDED USE

For the detection of antibacterial activity of fabrics.

PRODUCT SUMMARY AND EXPLANATION

AATCC Bacteriostasis Agar is used in accordance with the standard procedure. It may be used to carry stock cultures of *Escherichia coli* and *Staphylococcus aureus*. Also, it is used for the detection of antibacterial activity of fabrics.

COMPOSITION

Ingredients	Gms / Ltr
Peptone	10.000
Beef extract	5.000
Sodium chloride	5.000
Agar	15.000

PRINCIPLE

The medium contains Peptone 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 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°C for 18-24 hours and observe the inhibition of growth around test fabric.

INSTRUCTION FOR USE

- Suspend 35 grams in 1000 ml purified / distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes and cool to 45-50°C.
- Mix well and pour into sterile Petri plates.

QUALITY CONTROL SPECIFICATIONS

- Appearance of Powder** : Cream to yellow homogeneous free flowing powder.
Appearance of prepared medium : Amber coloured clear to slightly opalescent gel forms in Petri plates.
pH (at 25°C) : 7.2±0.2

INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU)	Growth	Recovery	Incubation Temperature	Incubation Period
<i>Escherichia coli</i>	25922	50-100	Good-luxuriant	>=70%	35-37°C	18-24 Hours



<i>Pseudomonas aeruginosa</i>	27853	50-100	Good-luxuriant	>=70%	35-37°C	18-24 Hours
<i>Salmonella Typhi</i>	6539	50-100	Good-luxuriant	>=70%	35-37°C	18-24 Hours
<i>Staphylococcus aureus subsp. aureus</i>	6538	50-100	Good-luxuriant	>=70%	35-37°C	18-24 Hours

PACKAGING:

In pack size of 500 gm bottles.

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.










Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

REFERENCES

1. Ruuhle and Brewer, 1931, USFDA Methods of Testing Antiseptics and Disinfectants, USDA Circ.:198.
2. Tech. Manual of AATCC, 1985, Vol. 61, AATCC, Research Triangle Park, N.C.
3. Williams (Ed.), 1995, Official methods of Analysis of AOAC, 16th ed. AOAC, Washington D.C.

 GMP Good Manufacturing Practices Certified	 Best Before	 QTY. Quantity	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 LOT/ B. NO. Lot / Batch Number	 Consults Instructions for Use	 QR Code	

NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

***For Lab Use Only**
Revision: 08 Nov., 2019