



Disinfectant Test Broth, AOAC

M354

Disinfectant Test Broth, AOAC is used for testing disinfectants.

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

Directions

Suspend 20 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation

Bacteria in the genus *Staphylococcus* are pathogens of man and other mammals. Traditionally they were divided into two groups on the basis of their ability to clot blood plasma (the coagulase reaction). The coagulase-positive Staphylococci constitute the most pathogenic species *Staphylococcus aureus*. The presence of Staphylococci in a lesion might first be suspected after examination of a direct gram stain. However, small numbers of bacteria in blood preclude microscopic examination and require culturing first (1).

Disinfectant Test Broth, AOAC is prepared according to the formula of AOAC (2, 3) and is used for daily transfer of cultures required in testing disinfectants and especially for determining phenol coefficients of disinfectants.

The medium contains the ingredients like beef extract and peptic digest of animal tissue, which provide necessary nutrients to the growth of test organisms like *Pseudomonas aeruginosa* and *Staphylococcus aureus*. Presence of sodium chloride balances the osmotic equilibrium.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Yellow coloured, clear solution without any precipitate

Reaction

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

pH

6.60-7.00

Cultural Response

M354: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours .

Organism	Inoculum (CFU)	Growth
<i>Staphylococcus aureus</i> ATCC 25923	50-100	luxuriant
<i>Staphylococcus aureus</i> ATCC 6538	50-100	luxuriant
<i>Escherichia coli</i> ATCC 25922	50-100	good-luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 27853	50-100	good-luxuriant

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label.

Reference

1. Association of Analytical Chemists (AOAC), 1960, 9th ed., Published by AOAC International.
2. Journal of AOAC, 1964, 47:176.
3. Methods of Analysis AOAC, 1980, 13th ed.

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