



Dehydrated Culture Media
Bases / Media Supplements

Technical Information

Disinfectant Test Broth, AOAC

Product Code: DM 1354

Application: 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

Principle & Interpretation

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 *Staphylococcus* is the most common pathogenic species of *Staphylococcus aureus*. The presence of *Staphylococcus* 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.

Methodology

Suspend 20 grams of powder media in 1000 ml distilled water. Shake well & heat if necessary to dissolve the medium completely. Dispense 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

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 range

6.60-7.00

Cultural Response/Characteristics

DM1354: 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> ATCC25922	50-100	Good-Luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 27853	50-100	Good-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: 2-8⁰ in sealable plastic bags for 2-5 days.

Further Reading

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.

Disclaimer :

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