



## Disinfectant Test Medium (C.S.M.A.Broth)

M353

Disinfectant Test Medium (C.S.M.A.Broth) is recommended for testing disinfectants as per Chemical Specialties Manufacturer's Association.

### Composition\*\*

Ingredients	Gms / Litre
Peptic digest of animal tissue	5.000
Proteose peptone	5.000
Yeast extract	2.500
Beef extract	2.500
Sodium chloride	5.000
Final pH ( at 25°C)	6.8±0.2

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Suspend 20.0 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense as desired and 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 Medium (CSMA Broth) is prepared according to the formula of Chemical Specialties Manufacturers Association and is used for testing disinfectants.

Proteose peptone, peptic digest of animal tissue and beef extract provide carbonaceous, nitrogenous compounds and other necessary nutrients for the growth of the test organisms. Yeast extract provides vitamins and other trace nutrients. Sodium chloride maintains 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

M353: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours .

Organism	Inoculum (CFU)	Growth
<b>Cultural Response</b>		
<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

*Pseudomonas aeruginosa* 50-100 good-luxuriant  
ATCC 27853

### 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

Easmon, C.S.F., Adlam C., Staphylococci and staphylococcal infections. Vol. I & II, 1983, Academic Press, London

Revision : 2 / 2015

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