



## Sterility Testing Medium-A

M017

Sterility Testing Medium A is used for checking presence of aerobic microorganisms in pharmacopoeial articles.

### Composition\*\*

Ingredients	Gms / Litre
Meat extract	5.000
Peptic digest of animal tissue	15.000
Sodium chloride	5.000
Final pH ( at 25°C)	7.4±0.2

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

### Directions

Suspend 25 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

### Principle And Interpretation

Sterility Testing Medium A is used for checking the presence of aerobic microorganisms in pharmacopoeial articles (1). The medium contains peptic digest of animal tissue and meat extract which provide carbonaceous, nitrogenous compounds and essential growth nutrients for the growth of microorganisms. Sodium chloride maintains the osmotic balance.

### Quality Control

#### Appearance

Cream to yellow coloured homogeneous free flowing powder

#### Colour and Clarity of prepared medium

Yellow coloured clear solution

#### Reaction

Reaction of 2.5% w/v aqueous solution at 25°C. pH : 7.4±0.2

#### pH

7.20-7.60

#### Cultural Response

M017: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth
<b>Cultural Response</b>		
<i>Bacillus subtilis</i> ATCC 6633	50-100	luxuriant
<i>Enterococcus faecalis</i> ATCC 29212	50-100	luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 27853	50-100	luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	50-100	luxuriant

### Storage and Shelf Life

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

### Reference

1.The Indian Pharmacopoeia, 3rd Ed., 1985, New Delhi, India.

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