



## Sterility testing Medium B

M018

Sterility Testing Medium B is used for checking presence of anaerobic microorganisms in pharmacopoeia articles.

### Composition\*\*

Ingredients	Gms / Litre
Meat extract	5.000
Peptic digest of animal tissue	15.000
Sodium chloride	5.000
Sodium thioglycollate	0.500
Resazurin	0.001
Agar	0.500
Final pH ( at 25°C)	7.1±0.2

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

### Directions

Suspend 26 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

### Principle And Interpretation

Sterility Testing Medium B is used for checking the presence of anaerobic microorganisms in pharmacopoeial articles (1). The medium contains peptic digest of animal tissue and meat extract which provides carbonaceous, nitrogenous compounds and essential growth nutrients for the growth of organisms. Sodium chloride maintains the osmotic balance. Sodium thioglycollate acts as a reducing agent and maintains a low oxygen tension in the medium. Resazurin acts as an pH indicator.

### Quality Control

#### Appearance

Cream to yellow coloured homogeneous free flowing powder

#### Colour and Clarity of prepared medium

Light amber coloured clear to slightly opalescent solution with upper 10% or less medium pink on standing.

#### Reaction

Reaction of 2.6% w/v aqueous solution at 25°C. pH : 7.1±0.2

#### pH

6.90-7.30

#### Cultural Response

M018: Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours, under anaerobic conditions.

Organism	Inoculum (CFU)	Growth
<b>Cultural Response</b>		
<i>Bacteroides fragilis</i> ATCC 25285	50-100	luxuriant
<i>Clostridium sporogenes</i> ATCC 11437	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.

**Disclaimer :**

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