

### Technical Information

#### Phyto Sterility Test Medium

#### Product Code: PHM1015

**Application:** This medium is recommended as a sterility testing medium for bacteria

#### Composition\*\*

Ingredients	Grams/Litre
MS medium + vitamins	2.20
Meat extract	7.00
Peptone	4.00
Yeast extract	10.00
Sodium chloride	2.00
Glucose	5.00
Sucrose	15.00

\*\*Formula adjusted standard to suit the performance parameter.

#### Principle And Interpretation

Microbial contamination of plant tissues is a treat, hence its timely detection remains a challenge. This medium is formulated as described by Leifert (1). It is designed so that it provides sufficient nutrition for growth of microbes and is clear.

This medium contains MS medium which is a basal medium. Meat extract, peptone and yeast extract in the medium serves as a source of nitrogenous compounds, carbon and nitrogen source. Glucose and sucrose serves as a carbohydrate source. Sodium chloride in the medium maintains the osmotic balance.

#### Directions

Suspend 45.20 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Sterilize the medium by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.

#### Quality Control

##### Appearance:

Cream to yellow coloured homogeneous free flowing powder.

##### Colour and Clarity of prepared medium:

Light yellow coloured clear solution

##### Cultural Response:

Cultural characteristics observed after an incubation at 30-35°C for 14 days

##### Organism (ATCC)

Pseudomonas species

Xanthomonas species

Clavibacter species

Escherichia coli (25922)

Staphylococcus aureus (25923)

##### Growth

Luxuriant

Luxuriant

Luxuriant

Luxuriant

Luxuriant

#### Storage and Shelf Life

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

### Further Reading

- Leifert, et.al., J.Applied Bacteriology, 67,353-361 (1989)

### Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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