



Technical Data

PHM015

Phyto Sterility Test Medium

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

Direction:

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.

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.

Quality Control:

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)	Growth
<i>Pseudomonas</i> species	luxuriant
<i>Xanthomonas</i> species	luxuriant
<i>Clavibacter</i> species	luxuriant
<i>Escherichia coli</i> (25922)	luxuriant
<i>Staphylococcus aureus</i> (25923)	luxuriant

PHM015**Phyto Sterility Test Medium****References:**

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

Storage and Shelf-life:

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

**Disclaimer :**

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories Pvt Ltd reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.