

Technical Information

Meat Infusion Agar, MiVeg (Standard Infusion Agar, MiVeg)

Product Code :VM1883

Application:- Meat Infusion Agar, MiVeg is a nutritive medium recommended for mass cultivation of organisms for vaccine or toxin production.

Composition

Ingredients	Gms / Litre
MiVeg peptone	10.0
MiVeg infusion	10.0
Sodium chloride	5.0
Agar	25.0
Final pH (at 25°C)	7.5±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Meat Infusion Agar, MiVeg (Standard Infusion Agar, MiVeg) is prepared by using vegetable peptone instead of animal based peptones thereby making the medium free from BSE/TSE risks. This medium supports luxuriant growth of variety of bacteria. It is recommended for large scale cultivation of these bacteria for the purpose of vaccine and toxin production. This medium contains MiVeg peptone and MiVeg infusion which supplies nitrogen, sulphur, vitamins and other growth nutrients for luxuriant growth of organisms. Sodium chloride helps in maintaining the osmotic balance of the medium.

Methodology

Suspend 50 grams of powder media in 1000 ml distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance

Light yellow coloured, may have slightly greenish tinge, homogeneous, free flowing powder.

Gelling

Firm, comparable with 2.5% Agar gel.

Colour and Clarity of prepared medium

Yellow coloured, clear to slightly opalescent gel forms in petri plates.

Reaction

Reaction of 5.0 % w/v aqueous solution pH: 7.5 ±0.2 at 25°C

pH range

7.3-7.7

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery
<i>Escherichia coli</i> (25922)	10 ² -10 ³	luxuriant	>70%
<i>Pseudomonas aeruginosa</i> (27853)	10 ² -10 ³	luxuriant	>70%
<i>Salmonella</i> serotype Typhi (6539)	10 ² -10 ³	luxuriant	>70%
<i>Staphylococcus aureus</i> (25923)	10 ² -10 ³	luxuriant	>70%



Dehydrated Culture Media
Bases / Media Supplements

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

Prepared Media: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

1. Atlas R.M., 1993, Handbook of Microbiological Media, CRC Press. Inc.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conform solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate
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