

Technical Information

Modified Soyabean MiVeg Agar

Product Code : VM2329

Application:- Modified Soyabean MiVeg Agar is used for microbiological assay of Polymyxin B, colistin sulphate and colistimethate sodium.

Composition

Ingredients	Gms / Litre
MiVeg hydrolysate	17.0
Papaic digest of soyabean meal	3.0
Sodium chloride	5.0
Dipotassium hydrogen phosphate	2.5
Glucose	2.5
Polysorbate 80	10.0
Agar	15.0

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Modified Soyabean MiVeg Agar is prepared by using vegetable peptone in place of animal based peptone which makes the medium free from BSE/TSE risks. This medium is the modification of Modified Soyabean Casein Digest Agar which is recommended as Medium-B by British Pharmacopoeia for microbiological assay of Polymyxin B, Colistin sulphate and Colistimethate sodium (1). It contains the combination of MiVeg hydrolysate and Papaic digest of soyabean meal which supplies amino acids and long chain peptides thereby the media becomes nutritious for the growth of microorganisms. Glucose serves as immediate carbon source. Dipotassium phosphate buffers the medium. Sodium chloride maintains the osmotic equilibrium of media. Depending on the growth requirement, polysorbate 80 is incorporated in the media which serves as fatty acid source.

Methodology

Suspend 55.0 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

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

Gelling

Firm, comparable with 1.5% Agar gel.

Colour and Clarity of prepared medium

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

Cultural Response/Characteristics

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

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery
<i>Bacillus subtilis</i> (6633)	10 ² -10 ³	luxuriant	>70%
<i>Candida albicans</i> (10231)	10 ² -10 ³	luxuriant	>70%
<i>Staphylococcus aureus</i> (25923)	10 ² -10 ³	luxuriant	>70%
<i>Streptococcus pyogenes</i> (19615)	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. The BritishS Pharmacopoeia., 2003, Volume IV, The Stationery Office Limited, UK.

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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