

Technical Information

Sensitivity Test MiVeg Medium

Product Code : VM1296

Application:- Sensitivity Test MiVeg Medium is designed for use in sensitivity tests of Sulphonamides and other antimicrobial agents.

Composition

Ingredients	Gms / Litre
MiVeg peptone No. 3	10.00
MiVeg infusion	10.00
Dextrose	10.00
Sodium chloride	3.00
Disodium phosphate	2.00
Sodium acetate	1.00
Adenine sulphate	0.01
Guanine	0.01
Uracil	0.01
Xanthine	0.01
Agar	15.00
Final pH (at 25°C)	7.3 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Sensitivity Test MiVeg Medium is prepared by using vegetables peptones instead of animal based peptones thereby making the medium BSE/TSE risks free. This medium is designed for use in sensitivity tests of Sulphonamides and other antimicrobial agents. Sodium acetate and MiVeg infusion incorporated to get highly defined inhibition zones in sensitivity plate tests. MiVeg peptone No. 3 provides nitrogenous nutrients to the organisms. Nucleoside bases addition supports the growth of common gram-positive and gram-negative organisms. Dextrose serves as the carbohydrate and energy source for many microorganisms. The medium is well buffered and isotonic due to the inclusion of disodium phosphate and sodium chloride.

Methodology

Suspend 51 grams of powder media in 1000 ml distilled water. Mix well and heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 12-15 lbs pressure (118-121°C) for 15 minutes. Cool to 50°C and aseptically add sterile serum or blood if desired. Mix well before pouring into sterile petri plates.

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.

Reaction

Reaction of 5.1% w/v aqueous solution is pH 7.3 ± 0.2 at 25°C.

pH Range

7.1 - 7.5

Cultural Response/Characteristics

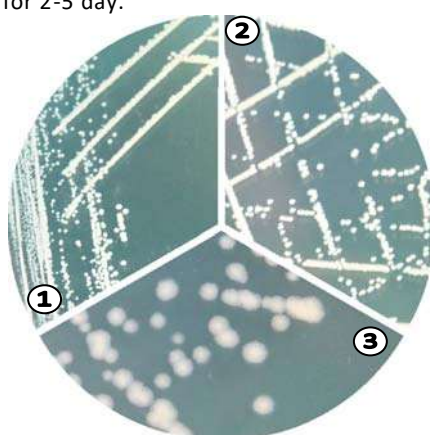
Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery
<i>Bacillus subtilis</i> (6633)	10^2 - 10^3	luxuriant	>70%
<i>Escherichia coli</i> (25922)	10^2 - 10^3	luxuriant	>70%
<i>Pseudomonas aeruginosa</i> (27853)	10^2 - 10^3	luxuriant	>70%
<i>Staphylococcus aureus</i> (25923)	10^2 - 10^3	luxuriant	>70%
<i>Enterococcus faecalis</i> (29212)	10^2 - 10^3	luxuriant	>70%

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 day.



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(Against dark background)

1. *Staphylococcus aureus*
2. *Escherichia coli*
3. *Pseudomonas aeruginosa*

Further Reading

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

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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