

Technical Information

Actinomyces MiVeg Agar

Product Code : VM1341

Application:- Actinomyces MiVeg Agar is recommended for the cultivation and maintenance of the anaerobic *Actinomyces*

Composition**

Ingredients	Grams/Litre
MiVeg infusion	10.00
MiVeg hydrolysate No. 1	10.00
MiVeg hydrolysate	4.00
Yeast extract	5.00
Dextrose	5.00
L-Cysteine hydrochloride	1.00
Starch, soluble	1.00
Sodium chloride	5.00
Monopotassium phosphate	15.00
Ammonium sulphate	1.00
Magnesium sulphate	0.20
Calcium chloride	0.02
Agar	20.00
Final Ph (at 25°C)	6.9±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Actinomyces MiVeg Agar is prepared by using vegetable based peptones in place of animal based peptones thereby making the medium BSE/TSE risk free. This medium is the modifications of Actinomyces Agar which was formulated as a maintenance medium by Pine and Watson (1).

MiVeg infusion, MiVeg hydrolysate, yeast extract, starch, dextrose and L-Cysteine is present in the medium which supplies carbon, nitrogen, sulphur, vitamins and other growth factors. Metallic salts provides essential electrolytes and minerals.

Methodology

Suspend 77.22 grams of dehydrated media in 1000 ml distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Distribute into flasks. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C & distribute in sterile petri plate.

Quality Control

Physical Appearance

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

Gelling

Firm, comparable with 2.0% Agar gel.

Colour and Clarity of prepared medium

Light amber coloured slightly opalescent gel with a slight precipitate forms in petri plates.

Reaction

Reaction of 7.72% w/v aqueous solution is pH 6.9 ± 0.2 at 25°C.

pH range

6.7-7.1

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 30°C for 18-48 hours.

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery
<i>Streptomyces achromogenes</i> (12767)	10 ²	good	>50%
<i>Streptomyces albus</i> (3004)	10 ²	good	>50%
<i>Streptomyces lavendulae</i> (8664)	10 ²	good	>50%
<i>Lactobacillus fermentum</i> (9338)	<10 ³	luxuriant	>70%
<i>Lactobacillus plantarum</i> (14917)	<10 ³	good	>50%

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. Pine L. and Watson S. J., 1959, J. Lab. Clin. Med., 54(1), 107.

Disclaimer

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