

Technical Information

Actinomyces MiVeg Broth

Product Code : VM1233

Application:- Actinomyces MiVeg Broth 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
Final Ph (at 25°C)	7.2±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Actinomyces MiVeg Broth 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 Broth which was formulated as a maintenance medium by Pine and Watson (1). The broth medium was further modified and recommended for growing and maintaining members of the genus *Actinomyces* (2).

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

Methodology

Suspend 57.22 grams of dehydrated media in 1000 ml distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Distribute into test tube. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance

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

Colour and Clarity of prepared medium

Light amber coloured, clear solution with a slight precipitate in tubes.

Reaction

Reaction of 5.72% w/v aqueous solution is pH 7.2 ± 0.2 at 25°C.

pH range

7.0-7.4

Cultural Response/Characteristics

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

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

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.
2. Ajello Georg, Kaplan and Kaufman, 1963, CDC Lab Manual Med. Mycology, PHS, Publication No. 994, CDC, Washington D.C.

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