Technical Information

Eugonic MiVeg Broth

Product Code : VM1429

Application:- Eugonic MiVeg Broth is recommended for the cultivation of fastidious microorganisms like *Haemophilus, Neisseria, Brucella, Pasteurella and Lactobacillus* species.

Composition

Ingredients	Gms / Litre
MiVeg hydrolysate	15.00
Papaic digest of soyabean meal	5.00
Dextrose	5.00
Sodium chloride	4.00
Sodium sulphite	0.20
L-Cystine	0.20
Final pH (at 25°C)	7.0 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Eugonic MiVeg Broth is prepared by adding MiVeg hydrolysate in place of Casein enzmyic hydrolysate thus making the medium free from BSE/TSE risks. Eugonic MiVeg Broth is the modification of media formulated by Vera (1) to obtain Eugonic (luxuriant) growth of fasitidious microorganisms like *Brucella* which are otherwise difficult to cultivate. Pelczar and Vera (2) used theconventional media for enumeration of bacteria in milk and milk products and Niven (3) for the detection of lactic acid in cured meats. This media can be used with or without enrichments. Eugonic MiVeg Broth is used in the same manner as Eugonic MiVeg Agar.

MiVeg hydrolysate, Papaic digest of soyabean meal provides the nitrogen source, vitamins and amino acids, which supplies the growth of fastidious microbial species. Dextrose is the energy source for rapid growth of bacteria. L-Cystine and sodium sulfite are added to stimulate growth and sodium chloride maintains the osmotic balance of the media.

Methodology

Suspend 29.4 grams of powder media in 1000ml distilled water. Mix thoroughly. Boil with frequent stirring to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45°C and add 5 -10% v/v sterile defibrinated blood if desired. The blood may be chocolated by heating.

Quality Control

Physical Appearance

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

Colour and Clarity of prepared medium

Yellow coloured, clear solution in tubes.

Reaction

Reaction of 29.4% w/v aqueous solution is pH 7.0 ± 0.2 at 25°C.

pH Range

6.8-7.2

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 35°C for 48 hours.

Organisms (ATCC)	Inoculum (CFU)	Growth
**Streptococcus pneumoniae* (6303) 10	10^2-10^3	luxuriant
**Streptococcus pyogenes* (19615)	10^2-10^3	luxuriant
**Brucella abortus* (4315)	10^2-10^3	good
Neisseria meningitidis (13090)	10^2-10^3	good
Lactobacillus fermentum (9338)	10^2-10^3	good
Candida albicans (26790)	10^2-10^3	good
Bacillus pumilus (14884)	10^2-10^3	good (with 0.1% starch)

Key = * = under 10% CO_2

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: 2-8^0 in sealable plastic bags for 2-5 days.

Further Reading

1. Vera, 1947, J. Bact., 54:14.
2. Pelczar and Vera, 1949, Milk Plant Monthly, 38:30.
3. Niven 1949, J.Bacteriol.58 :633
4. Harrison and Hansen, 1950, J. Bact., 59:197.
5. Frank, 1955, J. Bact., 70:269.

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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