

Technical Information

Standard Nutrient MiVeg Broth (H.S. Vaccine MiVeg Medium)

Product Code : VM1116

Application:- Standard Nutrient MiVeg Broth is a highly nutritious medium i.e., recommended for the large scale cultivation of bacteria for vaccine preparations.

Composition

Ingredients	Gms / Litre
MiVeg peptone	10.0
MiVeg extract	10.0
Sodium chloride	5.0
Final pH (at 25°C)	7.6 ± 0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Standard Nutrient MiVeg Broth is prepared by completely replacing animal based peptones with MiVeg peptone and MiVeg extract thus making the medium free from BSE/TSE risks. Standard Nutrient MiVeg Broth is the modification of Standard Nutrient Broth which is formulated as per APHA recommendation. This medium is a general purpose medium for the cultivation of non-fastidious organisms from water and wastewater, dairy and food products (1,2). Like the conventional medium, it is a highly nutritive medium that supports luxuriant growth of a wide range of organisms. The medium is therefore recommended for large scale cultivation of bacteria for vaccine preparations.

Methodology

Suspend 25 grams of powder media in 1000 ml distilled water. Mix thoroughly and heat if necessary to boiling to dissolve the medium completely. Distribute as desired. 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.

Colour and Clarity of prepared medium

Amber coloured, clear without any precipitate.

Reaction

Reaction of 2.5% w/v aqueous solution is pH 7.6 ± 0.2 at 25°C.

pH Range

7.4 - 7.8

Cultural Response/Characteristics

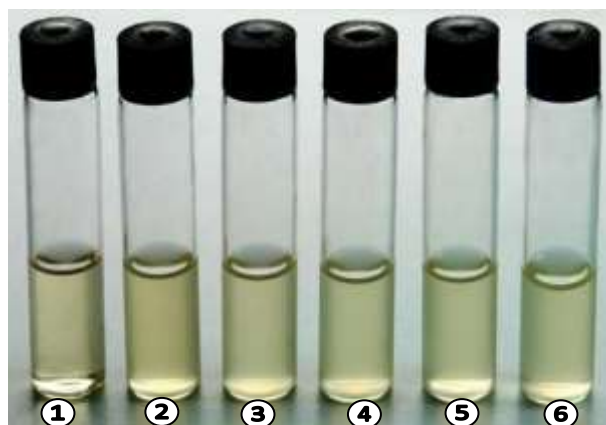
Cultural characteristics observed after an incubation at 35-37°C for 18 – 48 hours.

Organisms (ATCC)	Inoculum (CFU)	Growth
<i>Enterobacter aerogenes</i> (13048)	10 ² -10 ³	good-luxuriant
<i>Escherichia coli</i> (25922)	10 ² -10 ³	good-luxuriant
<i>Salmonella</i> serotype Typhi (6539)	10 ² -10 ³	good-luxuriant
<i>Staphylococcus aureus</i> (25923)	10 ² -10 ³	good-luxuriant
<i>Staphylococcus epidermidis</i> (12228)	10 ² -10 ³	good-luxuriant
<i>Streptococcus pyogenes</i> (19615)	10 ² -10 ³	good-luxuriant

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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| 1. Control | 4. <i>Salmonella</i> serotype Typhi |
| 2. <i>Enterobacter aerogenes</i> | 5. <i>Staphylococcus aureus</i> |
| 3. <i>Escherichia coli</i> | 6. <i>Staphylococcus epidermidis</i> |

Further Reading

1. Clesceri L.S. and Greenberg A.E., Trussell R.R., (Eds.), 1985, Standard Methods for the Examination of Water and Wastewater, 21st ed, APHA, Washington D.C.
2. Speck (Eds.), 1984, Compendium of Methods For The Microbiological Examination of Foods, 2nd ed., APHA, Washington, D.C.

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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