



Dehydrated Culture Media
Bases / Media Supplements

Technical Information

Nutrient MiVeg Broth, pH 6.9 w/o NaCl

Product Code : VM1088

Application:- Nutrient MiVeg Broth, pH 6.9 without NaCl is a general purpose medium recommended for the cultivation of microorganisms.

Composition

Ingredients	Gms / Litre
MiVeg peptone	5.00
MiVeg extract	3.00
Final pH (at 25°C)	6.9±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Nutrient MiVeg Broth, pH 6.9 without NaCl is prepared by replacing animal based peptones with vegetable peptones which makes the medium free from BSE/TSE risks. It has MiVeg peptone and MiVeg extract as media ingredients. Nutrient MiVeg Broth with pH 6.9 and without NaCl is a simple formulation which can support the growth of nonfastidious microorganisms. If to this medium 6.5% NaCl is added then it acts as a differential and selective agent by interfering with the osmotic balance and permeability of the membrane of majority of microorganisms, and can also be used to determine salt tolerance of *Enterococci*.

Methodology

Suspend 8 grams of powder media in 1000 ml distilled water. Mix thoroughly. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance

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

Colour and Clarity of prepared medium

Light amber coloured, clear solution without any precipitate.

Reaction

Reaction of 0.8 % w/v aqueous solution pH: 6.9 ±0.2 at 25°C

pH range

6.7-7.1

Cultural Response/Characteristics

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

Organisms (ATCC)	Inoculum (CFU)	Growth	Recovery
<i>Enterobacter aerogenes</i> (13048)	10 ² -10 ³	good-luxuriant	>70%
<i>Escherichia coli</i> (25922)	10 ² -10 ³	good-luxuriant	>70%
<i>Salmonella</i> serotype Typhi (6539)	10 ² -10 ³	good-luxuriant	>70%
<i>Staphylococcus aureus</i> (25923)	10 ² -10 ³	good-luxuriant	>70%
<i>Staphylococcus epidermidis</i> (12228)	10 ² -10 ³	good-luxuriant	>70%
<i>Enterococcus faecalis</i> (29212)	10 ² -10 ³	good-luxuriant	>70%



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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. Clesceri L. S, Greenberg A. E. and Eaton A. D., (Eds.), 1998, Standard Methods for the Examination of Water and Wastewater, 20th Ed., APHA, Washington, D.C.

2. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.

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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