Technical Information

Alkaline MiVeg Peptone Water

Product Code : VM1618

Application:- Alkaline MiVeg Peptone Water is recommended for enrichment of *Vibrio* species.

Composition

Ingredients	Gms / Litre
MiVeg peptone	10.0
Sodium chloride	10.0
Final pH (at 25°C)	8.4±0.2

** Formula adjusted, standardized to suit performance parameters.

Principle & Interpretation

Alkaline MiVeg Peptone Water medium is prepared by replacing animal based peptones with vegetable based peptones, making the medium free from BSE/TSE risks.
This medium is the modification of Alkaline Peptone Water recommended by APHA (1) and used for enrichment of *Vibrio* species from sea foods and infectious materials and other clinical specimens such as faeces (2). MiVeg peptone provides nitrogeneous substances necessary to support bacterial growth. Sodium chloride maintains osmotic balance. The relative high pH of the medium provides an favourable environment for thegrowth of *Vibrios*. Add 10 gms of sea food to 90 ml of Alkaline MiVeg peptone water and incubate for upto 18-20 hours at 37°C. Prolonged incubation will cause the suppressed contaminating organisms to develop (3).

Methodology

Suspend 20 grams of powder media in 1000 ml distilled water. Mix throughly. Heat if necessary 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 yellow coloured clear solution without any precipitate

Reaction

Reaction of 2.0% w/v aqueous solution is pH 8.4 ± 0.2 at 25°C.

pH range

8.2-8.6

Cultural Response/Characteristics

Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours

Organisms (ATCC)	Inoculum (CFU)	Growth
Vibrio cholerae (15748)	10^2- 10^3	luxuriant
Vibrio parahaemolyticus (17802)	10^2- 10^3	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: 2-8^0 in sealable plastic bags for 2-5 days.

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1. Control
2. *Vibrio cholerae*
3. *Vibrio parahaemolyticus*

Further Reading

1. Vanderzant, c., Splittstoesser d f. (Eds.), 1992, Compendium of Methods For The Microbiological Examination of Foods, 3rd ed., APHA, Washington, D.C.

2. Cruikshank R., 1968, Medical Microbiol., 11th ed., Livingstone Ltd., London.

3. Finegold, S.M. and Martin W.J., 1982, W.J. Bailey and Scott's Diagnostic Microbiol, 6th ed., C.V. Mosby Co., St. Louis p. 242.

Disclaimer :

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