

Dehydrated Culture Media Bases / Media Supplements

Technical Information

Alkaline Peptone Water

Product Code: DM 1618

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

omposition**		
Gms / Litre		
10.000		
10.000		
8.4±0.2		
	10.000 10.000	

Principle & Interpretation

Clinical materials containing small numbers of Vibrio should be inoculated into an enrichment medium prior to plating onto a selective medium, such as TCBS Agar (DM 1189). For this purpose Alkaline Peptone Water is a suitable enrichment broth ⁽¹⁻³⁾. Due to high pH of the medium (approximately 8.4) it provides a favourable environment for the growth of *Vibrio*'s. This medium is also recommended by APHA ⁽⁴⁾. Fine gold & Martin ⁽⁵⁾ for enrichment of *Vibrio* species from seafood, infectious materials and other clinical specimens such as faeces. Peptic digest of animal tissue provides amino acids and other nitrogenous substances. Sodium chloride maintains osmotic equilibrium. Add 10 grams of seafood to 90 ml of Alkaline Peptone Water and incubate for upto 18-20 hours at 37°C. Prolonged incubation will allow the suppressed contaminating organisms to grow ⁽⁶⁾. Growth from the enrichment broth is used for plating on selective media, because for

biochemical identification a pure culture is recommended.

Methodology

Suspend 20 grams of powder media in 1000 ml distilled water. Shake well it & heat if necessary to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance Cream to yellow homogeneous free flowing powder Colour and Clarity of prepared medium Light yellow coloured clear solution without any precipitate. Reaction Reaction of 2% w/v aqueous solution at 25°C. pH : 8.4.±0.2

pH Range:- 8.20-8.60

Cultural Response/Characteristics DM 1618: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism Vibrio cholera ATCC15748	Inoculum (CFU) 50-100	Growth Luxuriant
Vibrio parahaemolyticus ATCC 17802	50-100	Luxuriant





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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:** 2-8⁰ in sealable plastic bags for 2-5 days.

Further Reading

1. Gilligan, Janda, Karmali and Miller, 1992, Cumitech 12A, Laboratory Diagnosis of Bacterial Diarrhea, Coord. Ed., Nolte, American Society for Microbiology, Washington, D.C.

2. Forbes B. A., Sahm A. S., and Weissfeld D. F., Bailey & Scotts Diagnostic Microbiology, 10th Ed., 1998, Mosby, Inc., St. Louis, Mo.

3. Isenberg, (Ed.), 1992, Clinical Microbiology Procedures Handbook, Vol. I, American Society for Microbiology, Washington, D.C.

4. Downes F. P. and Ito K., (Eds.), 2001, Compendium of Methods for the Microbiological Examination of Foods, 4th Ed., APHA, Washington, D.C.

5. Cruikshank R., 1968, Medical Microbiol., 11th Ed., Livingstone Ltd., London

6. Finegold S. M. and Martin W. J., 1982, W. J. Bailey and Scotts Diagnostic Microbiol, 6th Ed., C.V. Mosby Co., St. Louis, p. 242

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