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Alkaline Peptone Water

Product Code : CM0246

Alkaline Peptone Water is recommended for enrichment of Vibrio species.

Composition**

Ingredients	Gms / Litre
Peptone Bacteriological	10.000
Sodium chloride	10.000
Final pH (at 25°C)	8.4±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 20 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And 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. Alkaline Peptone Water is a suitable enrichment broth for this purpose. The relatively high pH of the medium (approximately 8.4) provides a favourable environment for the growth of Vibrio' s.This medium is recommended by APHA for enrichment of Vibrio species from seafood, infectious materials and other clinical specimens such as faeces. Peptone 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 result in growth of the suppressed contaminating organisms to develop. Growth in tubes is indicated by turbidity compared to an un-inoculated tube (control). Growth from the enrichment broth is used for plating on selective media. For biochemical identification a pure culture is recommended.

Quality Control

Appearance	:	Cream to yellow homogeneous free flowing powder
Colour and Clarity of prepared medium	:	Light yellow colored clear solution without any precipitate
Reaction	:	Reaction of 2% w/v aqueous solution at 25°C.pH: 8.4±0.2
pH	:	8.20-8.60

Cultural Response

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

Organism	Inoculum (CFU)	Growth
Vibrio cholerae ATCC 15748	50-100	luxuriant
Vibrio parahaemolyticus ATCC 17802	50-100	luxuriant

Storage and Shelf Life

Store below 30°C in tightly closed container and prepared medium at 2-8°C
Use before expiry date on the label.