Alkaline Peptone Water (MFDS)

Medium used for the cultivation and enumeration of Vibrio spp. from food and water.

• CONTENTS (Liter)

Peptone	10.0 g
Sodium Chloride	20.0 g

Final pH = 8.6 ± 0.2 at 25°C

• PROCEDURE

Suspend 30.0 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into tubes.

• INTERPRETATION

Alkaline Peptone Water is a medium used for the cultivation and enumeration of Vibrio spp. from food and water. The high value of pH slows down the development of common contaminants so that Vibrio spp. can be cultivated effectively after 6 - 7 hours of incubation. Peptone provides nitrogen and vitamin sources. Sodium chloride maintains the osmotic balance and promotes the growth of Vibrio spp.

• TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 36 ± 1°C for 18 - 24 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium
Appearance: free-flowing, homogeneous
Color: light beige
Prepared medium
Appearance: clear to very slightly opalescent
Color: light amber
Incubation conditions: 36 ± 1°C / 18 - 24 hours

Microorganism	ATCC	Growth
Vibrio parahaemolyticus	17802	good

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration are evident. Store prepared medium at 2 - 8°C.

• REFERENCES

1. APHA (1985) – Standard Methods for the Examination of Water Wastewater , 16th ed.
2. Benenson, A.S., Islam M.R. & Greenoungh, W.B. (1964) – Rapid identification of Vibrio cholerae by darkfield microscopy. Bull, WHO, 30, 827.
3. Refer to the MFDS.

• PACKAGE

Cat. No : MB-A1098K Alkaline Peptone Water (MFDS)	500 G

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