Alkaline Peptone Water

Catalog: HB4129-2-5k

Alkaline Peptone Water is an enrichment medium used for the cultivation of Vibrio species from feces and other infected materials.

Approximate Formula:

Ingredients	gm/liter
Peptone	10.0
Sodium chloride	10.0

Final pH8.5±0.2 at 25℃

*Adjusted and/or supplemented as required to meet performance criteria.

Directions:

Suspend 20.0g of the medium in one liter of deionized or distilled water. Heat to completely dissolved. Sterilize in an autoclave at 121℃(15 lbs.) 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 8.5) provides a favourable environment for the growth of Vibrio's.

Peptone provides carbon and nitrogen sources to meet the needs of bacterial growth. Sodium chloride can maintain the equilibrium osmotic pressure.

Appearance:

Dehydrated medium are free-flowing yellowish powder. The prepared medium is a kind of yellowish transparent liquid.

Precautions:

This medium is for laboratory use only. Dried medium which is past shelf life, caking or color variation cannot be used.

Storage conditions and Shelf life:

Alkaline Peptone Water must be stored tightly capped in the original container at 5-30°C. The dehydrated medium has a shelf life of 5 years from date of manufacturing. Prepared medium may be stored, out of direct light at 2-8°C.

Quality control:

Inoculate and aerobic incubate at 36±1℃ for 18-24 hours.

Microorganism	Strains Number	Inoculum (CFU)	Growth	Remarks
Escherichia coli	ATCC 25922	100-1000	Partial inhibited	/
Vibrio parahaemolyticus	ATCC 17802	10-100	Luxuriant	Turbid
Vibrio cholerae	CICC 23794	10-100	Luxuriant	Turbid

References:

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3. U.S. Food and Drug Administration. 2001. Bacteriological analytical manual, online. AOAC International, Gaithersburg, Md.

4. Eaton, Rice and Baird (ed.). 2005. Standard methods for the examination of water and wastewater,21st ed., online. American Public Health Association, Washington, D.C.

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