

60g/L NaCl Peptone Water

Catalog : HB4136-1-500

60g/L NaCl Peptone Water is used for the pre-enrichment culture of *Vibrio parahaemolyticus*. It is also recommended for performing salt tolerance test for *Vibrio* species from food, animal feeding stuff and environmental samples in the area of food production and food handling. The composition and performance criteria of this medium are as per the specifications laid down in ISO 21872-1: 2017

Approximate Formula:

Ingredients	gm/liter
Peptone	10.0
Sodium Chloride	60.0
Final pH 7.2±0.2 at 25°C	

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

Directions:

Suspend 70.0 g of the medium in one liter of distilled water or deionized water. Mix well and heat with frequent agitation to completely dissolve the powder. Dispense into test tubes. Sterilize in an autoclave at 121 °C (15 lbs.) for 15 minutes.

Principle and Interpretation:

Peptone provide the necessary nitrogen compounds, carbon, vitamins and also some trace ingredients necessary for the growth of bacteria. Sodium chloride maintains the osmotic equilibrium of the medium and serves as a selective and inhibitory agent to other microorganisms except *Vibrio alginolyticus*.

Appearance:

Dehydrated medium is a 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:

60g/L NaCl 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:

Prepare the culture medium as per label directions. Inoculate and incubate at 35±1 °C for 18-24 hours.

Microorganism	Strains Number	Inoculum (CFU)	Growth	Remarks
<i>Vibrio parahaemolyticus</i>	ATCC 17802	10-100	luxuriant	Turbid
<i>Vibrio alginolyticus</i>	ATCC 33787	10-100	luxuriant	Turbid
<i>Aeromonas hydrophila</i>	ATCC 7966	1000-5000	Inhibited	/

References:

1. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
2. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock, D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.
3. Microbiology of food and animal feeding stuffs - Horizontal method for detection of potentially enteropathogenic *Vibrio* spp.- Part 1: International Organization for Standardization (ISO), 21872-1:2017