



Technical Data

0.1% Peptone Water

Intended Use

Peptone Water is a non-selective medium used for cultivating non-fastidious organisms.

Summary

Peptone Water is used for biochemical tests such as determining carbohydrate fermentation pattern which help in differentiation of genera and species. With the pH adjusted to 8.4 it is suitable for the cultivation and enrichment of *Vibrio cholerae*. Peptone Water may be modified by adding Andrade indicator and the test carbohydrate to detect the fermentation reaction.

Principle

0.1% Peptone Salt solution is recommended as a diluent for dilution of sample by different test methods widely used for examination of food stuffs. Standard methods for the examination of food stuffs require sample dilution to be carried out accurately for enumerating the microorganisms. This medium is also recommended by ISO Committee for use as an isotonic diluent. It contains peptone at low concentration which provides nutrients for survival of microorganisms and hence protecting the organisms. Sodium chloride at 0.85% concentration maintains osmotic balance of medium thereby maintaining cell morphology and integrity. The pH of this diluent medium is near neutral range optimum for viability of microorganisms. Therefore it can be successfully used as a diluent for carrying out dilutions of different samples..

Formula*

Ingredients	Gms/L
Peptone	10.0
Sodium Chloride	5.0
Final pH (at 25°C)	7.2 ± 0.2

*Adjusted to suit performance parameters.

Directions

1. Bring the Peptone Water vial to the room temperature 22°C-30°C.
2. Use Peptone Water as per required application.

Quality Control

Appearance: Light yellow coloured, clear solution without any precipitate.

Cultural Response: Cultural characteristics observed after an incubation of 18-24 hours at 30°C-35°C.

Organism (ATCC)	Growth
<i>Escherichia coli</i> (25922)	Good
<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar <i>Typhimurium</i> (23564)	Good
<i>Staphylococcus aureus</i> (25923)	Good

Note:

Inoculum cfu for good growth is 10 - 100.

Storage and Shelf Life

1. Store the ready to use Peptone Water at 15°C-25°C in a cool, dry place away from light.
2. Stability of the kit is as per expiry date mentioned on the label.



Warranty

This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Reference Pharmacopoeia:

USP/EP / BP / JP / IP

Product Presentation: Cat No.	Product
LPPWL004	0.1% Peptone Water(500 mL)

Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at this end for suitable use of the product.

