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TECHNO PHARMCHEM
An ISO 9001 : 2008 Certified Company
Registered Off. : 101-A, Deep Enclave, Pocket "D", Ashok Vihar, Phase-III, Delhi-110 052 (India)
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PEPTONE WATER

Product Code: CM0151
Peptone Water is used as a growth medium and as a base for carbohydrate fermentation media

Composition**

Ingredients	Gms / Litre
Peptone	10.000
Sodium chloride	5.000

Final pH (at 25°C) 7.2±0.2
**Formula adjusted, standardized to suit performance parameters

Directions
Suspend 15.0 grams in 1000 ml distilled water. Add the test carbohydrate in desired quantity and dissolve completely. Dispense in tubes with or without inverted Durhams tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle And Interpretation
Peptone Water is particularly suitable as a substrate in the study of indole production. Peptone used in Peptone Water is rich in tryptophan content. Presence of indole can be demonstrated using either Kovacs or Ehlrich reagent. Peptone Water is also utilized as a base for carbohydrate fermentation studies with the addition of sugar and indicators such as bromocresol purple, phenol red or bromo-thymol blue.Peptone Water is recommended for studying the ability of an organism to ferment a specific carbohydrate which aid in differentiation of genera and species. Peptone Water with pH adjusted to 8.4 is suitable for the cultivation and enrichment of Vibrio species.

Peptone provides nitrogeneous and carbonaceous compounds, long chain amino acids, vitamins provides essential nutrients.Sodium chloride maintains the osmotic balance of the medium. To study the fermentation ability of carbohydrates,saccharose, rhamnose, salicin are generally added in 0.5% amount separately to the basal medium before or after sterilization.The acidity formed during fermentation can be detected by addition of phenol red indicator, which shows a colour change of the medium from red to yellow under acidic conditions. If desired, Durhams tube may be used to detect the gas production if produced.

Quality Control

Appearance	:	Cream to yellow homogeneous free flowing powder
Colour and Clarity of prepared medium	:	Light amber colored clear solution
Reaction	:	Reaction of 1.5% w/v aqueous solution at 25°C.pH : 7.2±0.2
pH	:	7.00 - 7.40

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

Organism	Growth	Inoculum (CFU)	Indole test
Staphylococcus aureus subsp. aureus ATCC 25923	luxuriant	50 – 100	negative reaction, no red ring at the inter face of the medium on addition of Kovac's reagent.
Escherichia coli ATCC 25922	luxuriant	50 – 100	positive reaction , red ring at the inter face of the medium on addition of Kovac's reagent.
Salmonella Typhimurium ATCC 14028	luxuriant	50 – 100	negative reaction, no red ring at the inter face of the medium on addition of Kovac's reagent

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