

Buffered Peptone Water



Medium used for the cultivation and enumeration of non fastidious bacteria.

*Equally use with MFDS (MB-P2220K).

• CONTENTS (Liter)

Peptone	10.0 g
Sodium Chloride	5.0 g
Disodium Phosphate	3.5 g
Monopotassium Phosphate	1.5 g
Final pH = 7.2 ± 0.2 at 25°C	

• PROCEDURE

Suspend 20.0 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

Buffered Peptone Water is a medium used for the cultivation and enumeration of non fastidious bacteria. Peptone provides nitrogen, vitamins and mineral sources. Sodium chloride maintains the osmotic balance. Disodium phosphate and monopotassium phosphate are the buffering agents.

• 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

Color: light amber

Incubation conditions: 36 ± 1 °C / 18 - 24 hours

Microorganism	ATCC	Inoculum CFU	Growth
<i>Salmonella typhimurium</i>	14028	50-100	good
<i>Salmonella enteritidis</i>	NCCP 12236	50-100	good
<i>Escherichia coli</i>	25922	50-100	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. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Edel, W., and E.H. Kampelmacher (1973). Bull. Wld. Hlth. Org. 48: 167-174.
2. ISO 6579- Microbiology of food and animal feeding stuffs – Horizontal method for the detection of Salmonella spp. 2002-07-15.
3. O.M. 11/10/78: Limiti di cariche microbiche tollerabili in determinate sostanze alimentari e bevande. Gazzetta Ufficiale della Repubblica Italiana, n°346 del 13/12/78.
4. Refer to the MFDS.

• PACKAGE

Cat. No : MB-B2220 Buffered Peptone Water	500 G
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