

Buffered Sodium Chloride Peptone Solution



Solution used for the dilution of samples in the analysis of non-sterile products for microbial contaminants.

*Equally use with KP (MB-B1335P).

• CONTENTS (Liter)

Peptone	1.0 g
Potassium Dihydrogen Phosphate	3.6 g
Disodium Hydrogen Phosphate Dihydrate	7.2 g
Sodium Chloride	4.3 g
Final pH = 7.0 ± 0.2 at 25°C	

• PROCEDURE

Suspend 16.1 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. If necessary, add 1 - 10 mL Tween 20 supplement (MB-T1889) or Tween 80 supplement (MB-T1861). Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into tubes.

• INTERPRETATION

Buffered Sodium Chloride Peptone Solution is a solution used for the dilution of samples in the analysis of non-sterile products for microbial contaminants. This solution maintains the osmotic stability. Peptone provides nitrogen, vitamins and mineral sources. Potassium dihydrogen phosphate and disodium hydrogen phosphate dihydrate are the buffering agents. Sodium chloride maintains the osmotic balance.

• TECHNIC

Dilute the samples to prepare for microbial test of non-sterile products. Inoculate the prepared specimen using a sterile loop or needle to the medium. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: off-white

Prepared medium

Appearance : clear

Color: colorless to light yellow

Incubation conditions: 30 - 35°C / 18 - 24 hours on TSA

(**20 - 25°C / 2 - 3 days on SD Agar)

Microorganism	ATCC	Recovery at 2 hours
<i>Escherichia coli</i>	8739	± 50% colonies
<i>Staphylococcus aureus</i>	6538	± 50% colonies
<i>Pseudomonas aeruginosa</i>	9027	± 50% colonies
<i>Bacillus subtilis</i>	6633	± 50% colonies
** <i>Candida albicans</i>	10231	± 50% colonies

• 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. European Pharmacopoeia 5.0 (2004) 2.6.13. Microbial Examination of non-sterile products.
2. International Harmonisation: (2003): Pharmeuropa 15, No. 3, July 2003: 563-573.
3. Refer to the KP.

• PACKAGE

Cat. No : MB-B1335 Buffered Sodium Chloride Peptone Solution	500 G
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