

Buffered Sodium Chloride Peptone Solution pH7.0

Catalog : HB8418-1-500

Buffered Sodium Chloride Peptone Solution pH7.0 is used for pre-enrichment or sample preparation of bacteria in pharmaceutical products.

Approximate Formula:

Ingredients	gm./liter
Peptone(Meat or Casein)	1.0
Disodium Hydrogen Phosphate Dihydrate	7.2
Potassium Dihydrogen Phosphate	3.6
Sodium Chloride	4.3
Final pH 7.0 at 25 °C	

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

Directions:

Suspend 16.1g 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 flasks. Sterilize in an autoclave at 121°C(15 lbs.) for 15 minutes.

Principle and Interpretation:

A low peptone content provides basic nutrients such as amino acids to maintain organism viability. Phosphates are the buffering agents in the solution. Sodium chloride provides osmotic stability.

Appearance:

Dehydrated medium is a free-flowing white-yellowish powder. The prepared medium is a kind of colorless-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:

Buffered Sodium Chloride Peptone Solution pH7.0 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 cultures into test solution. At time zero (directly after inoculation) and after 45 minutes incubation at 20-25°C, subculture to TSA and incubate at 30-35°C for 18-24 hours. Determine colony counts at time zero and after 45 minutes.

Microorganism	Strains Number	Inoculum (CFU)	Recovery of 45 minutes
<i>Clostridium sporogenes</i>	ATCC 19404	100-1000	±50% of time zero counts
<i>Staphylococcus aureus</i>	ATCC 6538	100-1000	±50% of time zero counts
<i>Bacillus subtilis</i>	ATCC 6633	100-1000	±50% of time zero counts
<i>Pseudomonas aeruginosa</i>	ATCC 9027	100-1000	±50% of time zero counts
<i>Candida albicans</i>	ATCC 10231	100-1000	±50% of time zero counts
<i>Aspergillus niger</i>	ATCC 16404	100-1000	±50% of time zero counts

References:

1. United States Pharmacopeial Convention, Inc. 2008. The United States pharmacopeia 31/The national formulary 26, Supp. 1, 8-1-08, online. United States Pharmacopeial Convention, Inc., Rockville, Md.
2. European Directorate for the Quality of Medicines and Healthcare. 2008. The European pharmacopoeia, 6th ed., Supp. 1, 4-1-2008, online. European Directorate for the Quality of Medicines and Healthcare, Council of Europe, 226 Avenue de Colmar BP907-, F-67029 Strasbourg Cedex 1, France.
3. Japanese Ministry of Health, Labour and Welfare. 2006. The Japanese pharmacopoeia, 15th ed., online. Japanese Ministry of Health, Labour and Welfare.