Chaitanya Group Of Industries

ReadyMED®
Dehydrated Cell Culture Media

Technical Data Sheet

Buffered Sodium Chloride-Peptone solution pH 7.0 (Harmonized) RDM-H-BSCP-01

Principle
Buffered sodium chloride-peptone solution (pH 7.0) is recommended by USP/EP/IP/JP/BP for preparation of active test strain suspension for validating the microbiological testing procedures of non-sterile products and pharmaceutical products. It is also used for dissolving non-fatty water insoluble products and water-soluble products used in pharmaceutical industries. The BSCP solution is prepared in accordance with the harmonized principles of USP/EP/BP/IP/JP. The solution is composed of peptone (meat and casein), sodium chloride, potassium dihydrogen phosphate and disodium hydrogen phosphate. The peptone provides nitrogenous compounds, long chain amino acids. Sodium chloride maintains the osmotic balance and cell viability. Potassium dihydrogen phosphate and disodium hydrogen phosphate in the medium act as buffering agents. The solution prevents damage of cells and help to repair them and reduce the effect of pH variation on cell viability.

Use: Recommended for the preparation of test suspension in accordance with harmonized principles of USP/ EP/BP/JP/IP.

Contents*

Ingredients	Gram/Litre
Peptone (Meat and Casein)	1.00
Sodium Chloride	4.30
Potassium Dihydrogen Phosphate	3.60
Disodium Hydrogen Phosphate	7.20
pH at 25˚C	7.00

* Formula adjusted for optimum performance and parameters

Directions: Dissolve 16.00 grams in 1000 ml distilled water. Boil to dissolve the medium completely and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 min, cool it to 42-45 °C and use for test suspension preparation aseptically.

Specimens types analyzed
Pharmaceutical samples, clinical and non-clinical samples etc.

Precautions to be taken
The buffered sodium chloride-peptone solution is intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation
The expected performance of the buffered sodium chloride-peptone solution is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	Off white colored free flowing, homogeneous powder
Reaction of 1.6% solution	7.0 at 25 ˚C
Color and clarity of ready medium	Colorless to slight pale-yellow colored clear solution
Negative control	Performed using sterile distilled water

Different Microbial Response
Cultural characteristics observed after recovery on soybean casein digest agar after incubation at 30-37°C

for 18-24 hours for bacteria and Sabouraud dextrose agar at 30-37°C for 48-72 hours.

Organism	Recovery After 2 hours of incubation	Recovery after 24 hours of incubation at 2-8°C	Incubation Temperature	Incubation period
Gram-positive bacteria				
Staphylococcus aureus (ATCC 25923)	No decrease in colony count	No decrease in colony count	30-37°C	18-24 hours
Bacillus spizizenii (ATCC 6633)	No decrease in colony count	No decrease in colony count	30-37°C	18-24 hours
Gram negative bacteria				
Pseudomonas aeruginosa (ATCC 27853)	No decrease in colony count	No decrease in colony count	30-37°C	18-24 hours
Salmonella typhimurium (ATCC 14028)	No decrease in colony count	No decrease in colony count	30-37°C	18-24 hours
Escherichia coli (ATCC 8739)	No decrease in colony count	No decrease in colony count	30-37°C	18-24 hours
Yeast and fungi				
Candida albicans (ATCC 10231)	No decrease in colony count	No decrease in colony count	30-37°C	24-48 hours
Aspergillus brasiliensis (ATCC 16404)	No decrease in colony count	No decrease in colony count	30-37°C	24-48 hours
Anaerobic bacteria				
Clostridium sporogenes (ATCC 19404)	No decrease in colony count	No decrease in colony count	30-37°C	24-48 hours

Storage and Shelf Life

Hygroscopic; keep container tightly closed. Store in cool dry place.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. *British Pharmacopoeia*, (2011), The Stationery office British Pharmacopoeia
2. *European Pharmacopoeia*, (2011), European Dept. for the quality of Medicines.
3. *Indian Pharmacopoeia*, (2018), Govt. of India, the Controller of Publication, New Delhi.
4. *The Japanese Pharmacopoeia*, 17th Ed. (2016), The Ministry of Health, Labor And Welfare
5. *The United States Pharmacopoeia*, (2014), The United States Pharmacopeial Convention. 12601 Twinbrook Parkway, Rockvukke, MD 20852.

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