



## Buffered Sodium Chloride Peptone Solution w/ 1% Soya Lecithin

LQ196C

### Intended use

For the preparation of test suspension .

### Composition\*\*

Ingredients	g / L
HMC Peptone#	1.000
Potassium dihydrogen phosphate	3.600
Disodium hydrogen phosphate dihydrate	7.200
Sodium chloride	4.300
Soya lecithin	5.000
Final pH ( at 25°C)	7.00 ±0.5

#Equivalent to Peptone (meat or casein)

\*\*Formula adjusted, standardized to suit performance parameters

### Directions -

Label the ready to use LQ196C bottle. Inoculate the sample and Incubate at specified temperature and time.

### Principle And Interpretation

The composition of Buffered Sodium Chloride Peptone Solution is in accordance with the harmonized methodology of USP/EP/BP/JP/IP(1-5). This medium is recommended for preparation of stable test strain suspension employed for validating the microbiological testing procedures of non-sterile products. The standardized stable suspensions are used so that the suitability of this test to detect microorganism in presence of product can be established. Non-fatty products insoluble in water and water-soluble products are diluted/dissolved using this solution.

HMC Peptone serves as nutrient source and maintains the cell viability. Phosphates in the medium act as good buffering agents. Sodium chloride maintains the osmotic balance. Lecithin neutralizes quaternary ammonium compounds and polysorbate 80 neutralizes phenolic disinfectants, hexachlorophene, formalin and with lecithin ethanol (6).

### Type of specimen

Pharmaceutical samples

### Specimen Collection and Handling

For pharmaceutical samples follow appropriate techniques for handling specimens as per established guidelines (1-5). After use, contaminated materials must be sterilized by autoclaving before discarding.

### Warning and Precautions

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling specimens. Safety guidelines may be referred in individual safety data sheets.

### Limitations

1. This medium contains less nutrients and is not recommended for the growth of microorganisms.

### Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature.

### Quality Control

#### Appearance

Sterile clear Buffered Sodium Chloride Peptone Solution w/1% Soya lecithin in a glass bottle.

#### Colour

Off white to light yellow coloured opalescent solution.

**Please refer disclaimer Overleaf.**

**Quantity of medium**

100ml of medium in bottle

**pH**

6.50-7.50

**Growth Promotion Test**

Growth Promotion is carried out in accordance with the harmonized method of ICH(USP/EP/BP/JP/IP).

**Sterility Check**

Passes release criteria

Cultural characteristics observed after recovery on Soybean Casein Digest Agar after an incubation at 30-35°C for 18-24 hours for bacteria and Sabouraud Dextrose Agar at 30-35°C for 24-48 hours .

<b>Organism</b>	<b>Inoculum (CFU)</b>	<b>Recovery within 2 hours of incubation</b>	<b>Recovery within 4 hours of incubation</b>	<b>Recovery within 24 hours of incubation</b>
<b>Preparation of test strain</b>				
<i>Escherichia coli</i> ATCC 8739 (00012*)	50 -100	no decrease in colony count	no decrease in colony count	no decrease in colony count (stored at 2-8°C)
<i>Escherichia coli</i> ATCC 25922 (00013*)	50 -100	no decrease in colony count	no decrease in colony count	no decrease in colony count (stored at 2-8°C)
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 6538 (00032*)	50 -100	no decrease in colony count	no decrease in colony count	no decrease in colony count (stored at 2-8°C)
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (00034*)	50 -100	no decrease in colony count	no decrease in colony count	no decrease in colony count (stored at 2-8°C)
<sup>^</sup> <i>Pseudomonas paraaeruginosa</i> ATCC 9027 (00026*)	50 -100	no decrease in colony count	no decrease in colony count	no decrease in colony count (stored at 2-8°C)
<i>Pseudomonas aeruginosa</i> ATCC 27853 (00025*)	50 -100	no decrease in colony count	no decrease in colony count	no decrease in colony count (stored at 2-8°C)
<i>Salmonella</i> Typhimurium ATCC 14028 (00031*)	50 -100	no decrease in colony count	no decrease in colony count	no decrease in colony count (stored at 2-8°C)
<i>Salmonella</i> Abony <i>NCTC</i> 6017 (00029*)	50 -100	no decrease in colony count	no decrease in colony count	no decrease in colony count (stored at 2-8°C)
** <i>Bacillus spizizenii</i> ATCC 6633 (00003*)	50 -100	no decrease in colony count	no decrease in colony count	no decrease in colony count (stored at 2-8°C)

Key : (\*) Corresponding WDCM numbers,

^ Formerly known as *Pseudomonas aeruginosa*\*\* Formerly known as *Bacillus subtilis* subsp. *spizizenii***Disposal**

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials must be decontaminated and disposed of in accordance with current laboratory techniques (7,8).

**Please refer disclaimer Overleaf.**

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## Reference

1. The United States Pharmacopoeia-National Formulary (USP-NF), 2022.
2. European Pharmacopoeia, 2022, 10 th volume, European Directorate for the quality of medicines & Healthcare.
3. The British Pharmacopoeia, 2022, Medicines and Healthcare products Regulatory Agency.
4. The Japanese Pharmacopoeia, 17th edition 2016, The Ministry of Health, Labour and welfare.
5. Indian Pharmacopoeia, 2022, Indian Pharmacopoeia Commission, Ministry of Health and Family Welfare Government of India.
6. Favero (Chairman), 1967, Biological Contamination Control Committee, a state of the art report., Am. Assoc. for contamination control.
7. Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
8. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

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### Disclaimer :

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