



# Technical Data

## Buffered Sodium Chloride Peptone Solution pH 7.00 w/1%

LQ266X

### Polysorbate 80

#### Intended use

Recommended for the preparation of test suspension.

#### Composition\*\*

Ingredients	g / L
Potassium dihydrogen phosphate	3.600
Disodium hydrogen phosphate dihydrate	7.200
Sodium chloride	4.300
HMC Peptone #	1.000
Polysorbate 80 (Tween 80)	10.000
Final pH ( at 25°C)	7.00±0.5

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

# Peptone (meat or casein)

#### Directions

Label the ready to use LQ266X bottle. Inoculate 50-100 cfu sample and Incubate at specified temperature and time.

#### Principle And Interpretation

The composition of this medium 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 and cell integrity. Polysorbates reduce surface tension and also inactivate phenolic compound, if present in the test sample.

#### 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 Buffered Sodium Chloride Peptone Solution with 1% Polysorbate 80 in glass bottle.

##### Colour

Colourless to pale yellow clear solution

**Quantity of medium**

10 ml of medium in bottle

**pH**

6.50 - 7.50

**Sterility Check**

Passes release criteria

**Growth Promotion Test**

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

**Cultural response**

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>
<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)
<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 NCTC 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)
§ <i>Kokuria rhizophila</i> ATCC 9341	50 -100	no decrease in colony count	no decrease in colony count	no decrease in colony count (stored at 2-8°C)
<i>Candida albicans</i> ATCC 10231 (00054*)	50 -100	no decrease in colony count	no decrease in colony count	no decrease in colony count (stored at 2-8°C)

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*Candida albicans* ATCC 50 -100 no decrease in no decrease in no decrease in  
2091 (00055\*) colony count colony count colony count  
(stored at  
2-8°C)

Key : (\*) Corresponding WDCM Numbers

^ Formerly known as *Pseudomonas aeruginosa*

\*\*Formerly known as *Bacillus subtilis* subsp. *spizizenii*

\$ Formerly known as *Micrococcus luteus*

## Storage and Shelf Life

Store between 15-30°C. Use before expiry date on the label. Product performance is best if used within stated expiry period.

## 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 (6,7).

## Reference

- 1.The British Pharmacopoeia, 2022, Medicines and Healthcare products Regulatory Agency.
- 2.European Pharmacopoeia, 2022, 10 th volume, European Directorate for the quality of medicines & Healthcare.
- 3.Indian Pharmacopoeia, 2022, Indian Pharmacopoeia Commission, Ministry of Health and Family Welfare Government of India.
- 4.The United States Pharmacopoeia-National Formulary (USP-NF), 2022
- 5.The Japanese Pharmacopoeia, 17th edition, 2016, The Ministry of Health, Labour and welfare.
- 6.Isenberg, H.D. Clinical Microbiology Procedures Handbook. 2nd Edition.
- 7.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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