Technical Data

Buffered Sodium Chloride Peptone Solution pH 7.0 w/0.1% Tween 80

LQ213C

For the preparation of test suspension in accordance with harmonized methods of USP, EP, BP & JP.

Composition**

Ingredients	Gms / Litre
HMC Peptone #	1.000
Potassium dihydrogen phosphate	3.60
Disodium hydrogen phosphate	7.230
Sodium chloride	4.300
Tween 80	1.000

- Equivalent to Peptone (meat and casein)

**Formula adjusted, standardized to suit performance parameters

Directions

Label the ready to use LQ123 bottle. Inoculate the sample and Incubate at specified temperature and time.

Principle And Interpretation

The composition of this medium is as per USP (1) and is in accordance with the harmonized methodology of USP/EP/BP/JP (1,2,3,4). 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 provides nitrogen and carbon source, long chain amino acids, vitamins 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.

Quality Control

Appearance
Sterile clear Buffered Sodium Chloride Peptone Solution w/ 0.1% Tween 80 in bottle.

Colour
Colourless solution.

Quantity of medium
100ml of medium in bottle

pH
7.00- 7.00

Growth Promotion Test
In accordance with the harmonized method of USP/EP/BP/JP.

Sterility check
Passes release criteria

Cultural response
Cultural characteristics observed after an incubation at 30-35°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth
Escherichia coli ATCC 25922 (00013*)	50 -100	luxuriant
Escherichia coli ATCC 8739 (00012*)	50 -100	luxuriant
Escherichia coli NCTC 9002	50 -100	luxuriant
Salmonella Abony NCTC 6017 (00031*)	50 -100	luxuriant
Salmonella Typhimurium ATCC 14028 (00031*)	50 -100	luxuriant
Bacillus subtilis subsp. *spizizenii* ATCC 6633 (00003*)	50 -100	luxuriant
Staphylococcus aureus subsp. *aureus* ATCC 25923 (00032*)	50 -100	luxuriant
Staphylococcus aureus subsp. *aureus ATCC* 6538 (00034*)	50 -100	luxuriant
Pseudomonas aeruginosa ATCC 27853 (00025*)	50 -100	luxuriant
Pseudomonas aeruginosa ATCC 9027 (00026*)	50 -100	luxuriant
Candida albicans ATCC 2091	50 -100	luxuriant
Candida albicans ATCC 10231 (00054*)	50 -100	luxuriant

* Corresponding WDCM numbers

Storage and Shelf Life

On receipt, store between 15-25°C Use before expiry date on the label. Product 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 and material that comes into contact with sample must be decontaminated and disposed of in accordance with current laboratory techniques (7,8).

Reference

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3.European Pharmacopoeia, 2017, European Dept. for the quality of Medicines.
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6.Sadovski A.Y., 1977, J. Fd. Technol., 12:85. 6.Edel W. & Kampelmacher E.H.,1973, Bull, Wld. Hlth. Org., 48:167.
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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