Technical Data

Phosphate Buffer, pH 7.2

LQ165

Intended use

Used as a diluent as recommended by FDA BAM and USP.

Composition**

Ingredients	g/ L
Potassium dihydrogen phosphate	34.000

The pH is adjusted to 7.2 with 1N NaOH and the volume made to 1000 ml with distilled water.
Final Phosphate Buffer, pH 7.2 : 1ml of the above solution is added to 800 ml of purified water and sterilized.

Directions

Label the ready to use LQ165 bottle. Inoculate 50-100 cfu sample and Incubate at specified temperature and time.

Principle And Interpretation

Phosphate buffer pH 7.2 is formulated as described in FDA BAM & USP (1,2). The phosphate buffer is required for the antibiotic preparation used in antibiotic assay. It is used in preparation of dilutions.

Type of specimen

Food samples, Pharmaceutical Samples

Specimen Collection and Handling:

For food samples, follow appropriate techniques for sample collection and processing as per guidelines (1).
For Pharmaceutical samples, follow appropriate techniques for sample collection and processing as per guidelines (2). 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. It is incompatible with calcium ions.

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 Phosphate Buffer Solution pH 7.2 in glass tubes.

Colour

Colourless clear solution.

Quantity

9 ml of solution in glass tubes.

pH

7.20

Sterility Check

Passes release criteria

Storage and Shelf Life

On receipt store between 15-30°C. Use before expiry date on the label. Product performance is best if used stated expiry within 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 (3,4).

Reference

1. FDA, U.S. 1998. Bacteriological Analytical Manual. 8 ed. Gaithersburg, MD: AOAC International.
2. The United States Pharmacopoeia-National Formulatory (USP-NF), 2022.
3. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
4. 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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