

Phosphate Buffer Solution pH 7.2

General purpose diluent for the microbiological examination of food, water and pharmaceutical products.

TYPICAL FORMULA	(g/l)
Potassium Dihydrogen Phosphate	0.0425
Final pH 7.2 ± 0.2	

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DESCRIPTION

Phosphate Buffer Solution pH 7.2, also known as Butterfield's Phosphate Buffer, is a general diluent used in microbial limit testing of pharmaceutical products and in food testing.

This liquid medium is recommended by the American Public Health Association (APHA), the Association of Official Analytical Chemist (AOAC) and the United States Pharmacopoeia (USP), European Pharmacopoeia (EP) and Japanese Pharmacopoeia (JP) harmonized method.

PRINCIPLE

Potassium dihydrogen phosphate provides buffering action.

TECHNIQUE

Consult appropriate references for detailed information and recommended procedures.

INTERPRETATION OF RESULTS

Refer to the procedure used.

STORAGE

10-25°C away from light, until the expiry date on the label or until signs of deterioration or contamination are evident.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is designed for professional use only and must be used by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

REFERENCES

- EN ISO 11133:2014. Microbiology of food, animal feed and water Preparation, production, storage and performance testing of culture media.
- European Pharmacopoeia 6.5 (2009) 2.6.13. Microbiological examination of non-sterile products: Test for specified microorganisms.
- United States Pharmacopoeia 32 NF 27 (2009) <62> Microbiological examination of non-sterile products: Test for specified microorganisms.
- 4. Japanese Pharmacopoeia 4.05 (2008) Microbiological examination of non-sterile products: Test for specified microorganisms.
- 5. Davidson, Roth, and Gambrel-Lenarz (2004) In Wehr and Frank (ed.) Standard methods for the microbiological examination of dairy products, 17th ed. American Public Health Association, Washington, D.C.
- 6. Horvitz, W. (2002) Official Methods of Analysis of AOAC International. 17th ed., 1st rev. AOAC International, Washington, D.C.
- 7. Kornacki and Johnson (2001) In Downes and Ito (ed.) Compendium of methods for the microbiological examination of foods, 4th ed. American Public Health Association, Washington D.C.
- 8. Food and Drug Administration (1995) Bacteriological Analytical Manual. 8th ed. AOAC International, Gaithersburg, MD.



PRODUCT SPECIFICATIONS

NAME

Phosphate Buffer Solution pH 7.2

PRESENTATION

Glass bottles containing liquid medium

STORAGE

10-25°C

PACKAGING

Ref.	Content	Packaging
463190	6 x 1000 ml bottles	6 bottles in cardboard box

pH OF THE MEDIUM

7.2 ± 0.2

USE

Phosphate Buffer Solution pH 7.2 is a general diluent used in microbial limit testing of pharmaceutical products and in food testing

Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM

Appearance: clear Colour: transparent

SHELFLIFE

2 years

QUALITY CONTROL

- Control of general characteristics, label and print
- Sterility control

7 days at 22.5 ± 2.5 °C, in aerobiosis 7 days at 32.5 ± 2.5 °C, in aerobiosis

Microbiological control

Inoculum for diluent: 103-104 CFU

Incubation Conditions: 22.5 ± 2.5°C for 45-60 min

Specification Microorganism

WDCM 00012 Escherichia coli ± 30% of original count WDCM 00034 ± 30% of original count Staphylococcus aureus

TABLE OF SYMBOLS



