ALLIANCE BIO EXPERTISE

Reference: TUWI3011 **A.B.E. - Technical Data Sheet**

Product: **Buffer Phosphate pH 7,2**

Specification

Phosphate buffer used in the preparation of dilution banks for use in microbiological testing.

Presentation

	Packaging Details	Shelf Life	Storage
20 Tubes Tube 16 x 113 mm with: 9 ± 0.2 ml	1 box with 20 tubes, 16x113 mm glass tubes, ink labelled and metal-Non injectable cap.	12 months	8-25 ºC

Composition

Composition (g/):

Potassium dihydrogen phosphate (0.2M)... 250 ml
Sodium hydroxide(0.2M)..... 175 ml
Distilled water.....575 ml

Description /Technique

Usually phosphate buffer is used for the preparation of dilution bank for use in the examination of waters, dairy products, foods and other material.

Use according to final purpose, samples and validated methods.

Quality control

Physical/Chemical control

Color : Colourless pH: 7.2 ± 0.2 at 25ºC

Microbiological control

Inoculate 100 ±20 CFU (productivity)/ subculture after holding at 20-25ºC for 45 min. to 1 h.

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Aerobiosis. Incubation at 30-35 ºC. Reading at 24-48 until 72 h

Microorganism	Growth
Bacillus subtilis ATCC® 6633, WDCM 00003	Good. Recovery ±30% T0 (original enumeration)
Escherichia coli ATCC® 25922, WDCM 00013	Good. Recovery ±30% T0 (original enumeration)
Staphylococcus aureus ATCC® 6538, WDCM 00032	Good. Recovery ±30% T0 (original enumeration)
Candida albicans ATCC® 10231, WDCM 00054	Good. Recovery ±30% T0 (original enumeration)

Sterility control

Incubation 48 h at 30-35 ºC and 48 h at 20-25 ºC: NO GROWTH.
Check at 7 days after incubation in same conditions.

Bibliography

· EUROPEAN PHARMACOPOEIA 8.0 (2014) 8th ed. § 2.6.13. Microbiological examination of non-sterile products: Test for specified microorganisms. Harmonised Method. EDQM. Council of Europe. Strasbourg.

· FDA (Food and Drug Adminstrations) (1995) Bacteriological Analytical Manual. 8th ed. Revision A. AOAC Internacional Inc. Gaithersburg. MD. USA.

· USP 33 - NF 28 (2011) <62> Microbiological examination of non-sterile products: Test for specified microorganisms. Harmonised Method. USP Corp. Inc. Rockville. MD. USA.

· MARSHALL, R.T. (1992) Standard Methods for the Examination of Dairy Products. 16th ed. APHA. Washington.