

Technical Data Sheet

NaCl Peptone Broth

Ordering number: 1.46327.0020 / 1.46327.0100

NaCl Peptone Broth is used as protective and isotonic diluent for different test method in microbiological area.

NaCl Peptone Broth comes in 17 ml-tube with filling volume 9 ml.

Mode of Action

NaCl Peptone Broth is a general diluent used for sample preparation. The solution contains a low peptone content to maintain organisms' viability without promoting growth. Sodium chloride maintains the osmotic balance of the medium thereby preserving cell integrity. The neutral range of medium pH is optimum for viability of microorganisms.

Typical Composition

NaCl	8.5 g/l
Peptone	1 g/l

The appearance of the medium is clear and colorless. The pH value is in the range of 6.5-7.5. The medium can be adjusted and/or supplemented according to the performance criteria required.

Application and Interpretation

NaCl Peptone Broth is a common isotonic diluent used for maximum recovery of microorganisms. It is recommended by the ISO for the testing of foodstuffs as well as for preparing initial suspension for microbiological samples.

Put 10 g of test sample into 90 ml NaCl peptone solution for enumeration. Blend the prepared solution at 15.000-20.000 revolutions for 1-2 minutes. Transfer 1 ml of it into 9 ml of sterile diluent for 15 minutes and mix it (10^{-1}). Prepare sequential dilutions in the same way and use either spread plate or pour plate technique for microbial enumeration.

Note: Same diluent should be used during sequential dilutions. Tests may be duplicated as described in method and checked for equivalent yields of microorganisms among the diluent batches.

Storage and Shelf Life

The product can be used for tests until the expiry date if protected from light and properly sealed at +2 °C to +25 °C.

The testing procedures as described on the CoA can be started up to the expiry date printed on the label.

Disposal

Please mind the respective regulations for the disposal of used culture medium (e.g. autoclave for 20 min at 121 °C, disinfect, incinerate etc.).

Quality Control

Control Strains	ATCC #	Inoculum CFU	Incubation	Expected Results
<i>Staphylococcus aureus</i>	6538	2.000-20.000	1 h ± 5 min at 20-25 °C	no change in the number of cfu
<i>Pseudomonas aeruginosa</i>	9027	2.000-20.000	1 h ± 5 min at 20-25 °C	no change in the number of cfu
<i>Escherichia coli</i>	8739	2.000-20.000	1 h ± 5 min at 20-25 °C	no change in the number of cfu
<i>Bacillus subtilis</i>	6633	2.000-20.000	1 h ± 5 min at 20-25 °C	no change in the number of cfu
<i>Candida albicans</i>	10231	2.000-20.000	1 h ± 5 min at 20-25 °C	no change in the number of cfu

Please refer to the actual batch related Certificate of Analysis.

Literature

ISO/DIS 6649. Meat and Meat Products-Detection and Enumeration of *Clostridium perfringens*.

ISO 6887. Microbiology – general guidance for the preparation of dilutions for microbiology examinations.

Straker, R. P. and Stokes, J. L., (1957), Appl. Microbiol., 5:21.

Patterson, J. W. and Cassells, J. A., (1963), J. Appl. Bacteriol., 26:493.

Ordering Information

Product	Cat. No.	Pack size
NaCl Peptone Broth	1.46327.0020	20 x 9 ml tubes
NaCl Peptone Broth	1.46327.0100	100 x 9 ml tubes

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