

# Nutrient Broth N°2

Cat. 1251

For the cultivation of fastidious pathogens and other microorganisms

## Practical information

Applications	Categories
Enrichment	Fastidious microorganisms

Industry: General cultivation



## Principles and uses

Nutrient Broth N°2 is used for the general cultivation of a wide variety of microorganisms. It is also used as a general use medium, rich in nutrients, that allows the growth of bacteria when there is a low quantity of inocula and fastidious pathogenic microorganisms. It can also be used for sterility testing of aerobic organisms.

The medium is particularly suitable for subculture, especially as a secondary growth medium for staphylococci to be tested for coagulase production. Gelatin peptone and Beef extract provide nitrogen, vitamins, minerals and amino acids essential for growth. Sodium chloride supplies essential electrolytes for transport and osmotic balance.

## Formula in g/L

Casein peptone	10	Beef extract	10
Sodium chloride	5		

Typical formula g/L \* Adjusted and/or supplemented as required to meet performance criteria.

## Preparation

Suspend 25 grams of the medium in one liter of distilled water. Mix well and dissolve by heating with frequent agitation. Boil for one minute until complete dissolution. Dispense into appropriate containers and sterilize in autoclave at 121°C for 15 minutes.

## Instructions for use

Inoculate medium with the test sample and incubate at 35 ± 2°C for 18 - 24 hours.

## Quality control

Solubility	Appearance	Color of the dehydrated medium	Color of the prepared medium	Final pH (25°C)
w/o rests	Fine powder	Beige	Amber, slightly opalescent	7,5 ± 0,2

## Microbiological test

Incubation conditions: (35±2 °C / 18-48 h)

Microorganisms

Specification

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Staphylococcus epidermidis ATCC 12228	Good growth
Klebsiella aerogenes ATCC 13048	Good growth
Streptococcus pyogenes ATCC 19615	Good growth
Escherichia coli ATCC 25922	Good growth
Salmonella typhi ATCC 6539	Good growth

## Storage

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Temp. Min.:2 °C  
Temp. Max.:25 °C

## Bibliography

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Walsbren, Carr, and Dunnette A. J. Clin. Path. 21:884. 1951.  
American Public Health Association. 1923. Standard methods of water analysis, 5th ed. American Public Health Association, Washington, D.C.  
Marshall, R.T. (ed) 1993 Standard methods for the microbiological examination of dairy products, 1 6th ed. American Public Health Association, Washington, D.C.