



## Nutrient Broth No. 2

M1362

Nutrient Broth No. 2 is recommended for cultivation and enrichment of less fastidious bacteria and as a base in the preparation of special media.

### Composition\*\*

Ingredients	Gms / Litre
Meat peptone	4.300
Casein enzymic hydrolysate	4.300
Sodium chloride	6.400
Final pH ( at 25°C)	7.5±0.1

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Suspend 15 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

### Principle And Interpretation

Nutrient Broth is a general purpose medium used for the cultivation of microorganisms that are not exacting in their nutritive requirements. An infusion of meat and peptone constitute the nutrient composition of many media.

Nutrient Broth No. 2 is a basic culture medium used for maintaining microorganisms (1) and for purity checking prior to biochemical or serological testing. It is used for the cultivation and enumeration of bacteria, which are not particularly fastidious. In semisolid form it is used for maintenance or control of standard organisms. Addition of different biological fluids such as horse or sheep blood, serum, egg yolk, etc. makes it suitable for the cultivation of fastidious organisms (2).

Meat peptone and casein enzymic hydrolysate provide the necessary nutrients for the growth of non-fastidious organisms. Sodium chloride maintains the osmotic equilibrium of the medium.

### Quality Control

#### Appearance

Cream to yellow homogeneous free flowing powder

#### Colour and Clarity of Prepared medium

Light yellow coloured clear solution

#### Reaction

Reaction of 1.5% w/v aqueous solution at 25°C. pH : 7.5±0.1

#### pH

7.40-7.60

#### Cultural Response

M1362: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth
<b>Cultural Response</b>		
<i>Enterobacter aerogenes</i> ATCC 13048	50-100	luxuriant
<i>Escherichia coli</i> ATCC 25922	50-100	luxuriant
<i>Klebsiella pneumoniae</i> ATCC 13883	50-100	luxuriant
<i>Salmonella Typhimurium</i> ATCC 14028	50-100	luxuriant

## Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

## Reference

1. Lapage S., Shelton J. and Mitchell T., 1970, Methods in Microbiology, Norris J. and Ribbons D., (Ed.), Vol. 3A, Academic Press, London.
2. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.

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