



## Nutrient Agar No.2

M1269

### Intended Use:

Used as a general purpose culture medium.

### Composition\*\*

Ingredients	Gms / Litre
Peptone	10.000
HM peptone B #	10.000
Sodium chloride	5.000
Agar	15.000
Final pH ( at 25°C)	7.2±0.2

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

# - Equivalent to Beef extract

### Directions

Suspend 40 grams in 1000 ml purified / distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and pour into sterile Petri plates.

### Principle And Interpretation

Nutrient Media are general propose media used for the examination of water and dairy products according to Standard Methods for the Examination of Water and Waste water (1) and Dairy Products (2). Nutrient Agar No. 2 can be used for the microbiological analysis of water as per Czech Standards. It can also be used for sterility testing of aerobes and also for maintenance of subcultures (3).

HM peptone B and peptone provide the necessary nitrogen compounds, carbon, long chain amino acids, vitamins and also some trace ingredients to the bacteria. Sodium chloride maintains osmotic equilibrium of the medium.

### Type of specimen

Clinical samples; Food and dairy samples; Water samples

## Quality Control

### Appearance

Cream to yellow homogeneous free flowing powder

### Gelling

Firm, comparable with 1.5% Agar gel

### Colour and Clarity of prepared medium

Light yellow to amber coloured clear to slightly opalescent gel forms in Petri plates

### Reaction

Reaction of 4.0% w/v aqueous solution at 25°C. pH : 7.2±0.2

### pH

7.00-7.40

### Cultural Response

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

Organism	Inoculum (CFU)	Growth	Recovery
<i>Escherichia coli</i> ATCC 25922	50-100	luxuriant	≥70%
<i>Klebsiella aerogenes</i> ATCC 13048	50-100	luxuriant	≥70%
<i>Klebsiella pneumoniae</i> ATCC 13883	50-100	luxuriant	≥70%
<i>Salmonella</i> Typhimurium ATCC 14028	50-100	luxuriant	≥70%

## Reference

1. Clesceri L. S, Greenberg A. E. and Eaton A. D., (Eds.), 1998, Standard Methods for the Examination of Water and Wastewater, 20th Ed., APHA, Washington, D.C.
2. American Public Health Association, 1978, Standard Methods for the Examination of Dairy Products, 14th Ed., APHA, Inc., Washington, D.C.
3. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.

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