

TECHNICAL DATA SHEET

Nutrient Agar w/ 1% Peptone

Principle

Nutrient broth is a general media and commonly used for water testing and dairy testing as per APHA for enumeration, prolonged maintenance and storage of wide variety of fastidious microbes. Nutrient broth is ideal microbial media for teaching, demonstration and routine analysis. Nutrient Broth (RDMNB-05) is composed of the peptone, meat extract and sodium chloride. Peptone and meat extract provide ample amount of the carbon and nitrogen essential and non-essential amino acids, along with the vitamins and trace minerals. Sodium chloride maintains the osmotic equilibrium of the medium.

Use: General culture medium, can be used as enriched medium with blood or other biological fluids,

Contents*

Ingredients	Gram/Liter
Peptone	10.0
Meat Extract #	10.0
Sodium Chloride	5.0
pH at 25°C	7.5 ±0.2

* Formula adjusted for optimum performance and parameters

Equivalent to beef extract

Directions: Dissolve 25.00 grams in 1000 ml distilled water. Boil to dissolve the medium completely and distribute aseptically. Sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 min, cool it to 42-45 °C and inoculate test sample aseptically.

Specimens' types analyzed

Pharmaceutical samples, clinical and non-clinical samples, soil, water, food and dairy samples etc.

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Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	Beige colored free flowing, homogeneous powder
Reaction of 1.3% solution	7.5 ±0.2 at 25 °C
pH	7.30- 7.70
Color and clarity of ready medium	Pale yellow colored clear to slightly opalescent solution.
Growth Promotion properties	Best at ≤ 100 CFU at 32-37 °C for 18-72 h
Indicative properties	Optimum at ≤ 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response: Cultural characteristics observed after incubation at 33-37°C for 18-24 hours.

Organism	ATCC	Inoculum (CFU)	Growth
<i>Escherichia coli</i>	25922	50-100	Luxuriant
<i>Escherichia coli</i>	8739	50-100	Luxuriant
<i>Salmonella typhimurium</i>	14028	50-100	Luxuriant
<i>Bacillus spizizenii</i>	6633	50-100	Luxuriant
<i>Staphylococcus aureus</i>	25923	50-100	Luxuriant
<i>Pseudomonas aeruginosa</i>	27853	50-100	Luxuriant

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Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label. Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

Reference

1. Bureau of Indian Standards, 1S:5887 (Part 1) 1976, affirmed 1986.
2. Bureau of Indian Standards, 1S:5887 (Part IV) 1976.
3. Bureau of Indian Standards, 1S:5889 (Part II) 1976, Second Reprint December 1994.
4. Difco Manual (1998). 11th Edition. Difco Laboratories., Division of Becton Dickinson and Company, Sparks, Maryland, USA.
5. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock, D.W. (2015), Manual of Clinical Microbiology, 11th Edition. Vol. 1.
6. Rand, M. C., Arnold E. Greenberg, and Michael J. Taras, (1976), Standard methods for the examination of water and wastewater. Prepared and published jointly by American Public Health Association, American Water Works Association, and Water Pollution Control Federation.

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