

## TM 1270 - NUTRIENT BROTH (W/ 1% PEPTONE) (IS : 5887 (Part I and II) 1976, reaffirmed 2005, IS : 5887 (Part IV) 1999)

### INTENDED USE

General purpose culture medium.

### PRODUCT SUMMARY AND EXPLANATION

NUTRIENT BROTH is a general-purpose medium used for cultivation of microorganisms. It is recommended for the examination of water and dairy products according to Standard Methods for the examination of water and wastewater. This medium is general purpose culture medium in accordance with Indian standard published by BIS under specification IS 5887 (Part II, IV) 1976

### COMPOSITION

Ingredients	Gms / Ltr
Peptic digest of animal tissue	10.000
Meat extract	10.000
Sodium chloride	5.000

### PRINCIPLE

The medium contains Peptic digest of animal tissue and Beef extract as sources of nitrogen, vitamins, amino acids and carbon for potential microorganism's growth. Sodium chloride ensures osmotic balance.

### INSTRUCTION FOR USE

- Dissolve 25.00 grams in 1000 ml distilled water.
- Gently heat to boiling with gentle swirling and dissolve the medium completely.
- Dispense as desired.
- Sterilize by autoclaving at 15 psi (121°C) for 15 minutes.

### QUALITY CONTROL SPECIFICATIONS

Appearance of Dehydrated powder	:	Yellow coloured, homogeneous free flowing powder
Appearance of Prepared medium- Basal medium	:	Light yellow colored, clear solution
pH (at 25°C)	:	7.5± 0.2

### INTERPRETATION

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

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
<i>Bacillus cereus</i>	10876	50-100	Luxuriant	35-37°C	18-24 hours
<i>Enterobacter aerogenes</i>	13048	50-100	Luxuriant	35-37°C	18-24 hours
<i>Escherichia coli</i>	25922	50-100	Luxuriant	35-37°C	18-24 hours



<i>Salmonella Typhimurium</i>	14028	50-100	Luxuriant	35-37°C	18-24 hours
<i>Klebsiella pneumoniae</i>	13883	50-100	Luxuriant	35-37°C	18-24 hours
<i>Staphylococcus aureus</i>	25923	50-100	Luxuriant	35-37°C	18-24 hours
<i>Pseudomonas aureus</i>	27853	50-100	Luxuriant	35-37°C	18-24 hours

**PACKAGING:**

In 100 & 500 gm packaging size.

**STORAGE**

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers below 25°C and protect from direct Sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

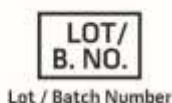
**Product Deterioration:** Do not use powder if they show evidence of microbial contamination, discoloration, drying, or other signs of deterioration.

**DISPOSAL**

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

**REFERENCES**

1. Downes F. P. and Ito K., (Ed.), Compendium of Methods for the Microbiological Examination of Foods, 4thEd., American Public Health Association, Washington, D.C. (2001).
2. Bureau of Indian Standards, 1S:5887 (Part 1) 1976, affirmed 1986.
3. Bureau of Indian Standards, 1S:5889 (Part II) 1976, Second Reprint December. (1994).
4. Bureau of Indian Standards, 1S:5887 (Part IV). (1976)



**NOTE:** Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

\*For Lab Use Only  
Revision: 05<sup>th</sup> Oct. 2019

