

Technical Information

Nutrient Broth with 1% Peptone

Product Code: DM 1244S

Application: Nutrient Broth with 1% Peptone is used as a general purpose culture medium in accordance with Indian standard published by BIS under specification IS 5887 (Part II, IV) 1976.

Composition**

Ingredients	Gms / Litre
Peptic digest of animal tissue	10.000
Meat extract	10.000
Sodium chloride	5.000
Final pH (at 25°C)	7.5±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Nutrient Broth is a general purpose medium used for the examination of water and dairy products according to Standard Methods for the Examination of Water and Wastewater ⁽¹⁾ and Dairy Products ⁽²⁾. It can also be used for cultivating many less fastidious microorganisms.

Nutrient media may be used as enriched media by the addition of 10% blood or other biological fluids like ascitic fluid, serum etc. This medium is general purpose culture medium as per Indian standard published by BIS under specification IS 5887 (Part II, IV) 1976 ⁽⁴⁾.

Meat extract and peptic digest of animal tissue provide the necessary nitrogen compounds, carbon, vitamins and also some trace nutrients.

Sodium chloride maintains osmotic equilibrium of the medium.

Methodology

Suspend 25 grams of powder media in 1000 ml distilled water. Shake well heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical Appearance

Yellow coloured homogeneous free flowing powder

Colour and Clarity of prepared medium Light yellow coloured clear solution

Reaction

Reaction of 2.5% w/v aqueous solution at 25°C. pH : 7.5±0.2

pH range

7.30-7.70

Cultural Response/Characteristics

DM 1244S: Cultural characteristics observed after an incubation at 35 - 37°C for 18 - 24 hours.

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



Dehydrated Culture Media
Bases / Media Supplements

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

Prepared Media: 2-8⁰ in sealable plastic bags for 2-5 days.

Further Reading

1. Greenberg A.E., Trussell R.R. and Clesceri L.S. (Eds.), 1985, Standard Methods for the Examination of Water and Wastewater, 16th 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. Bureau of Indian Standards, 1S:5887 (Part 1) 1976, affirmed 1986.
4. Bureau of Indian Standards, 1S:5889 (Part II) 1976, Second Reprint December 1994.
5. Bureau of Indian Standards, 1S:5887 (Part IV) 1976.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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