



Dehydrated Culture Media
Bases / Media Supplements

Technical Information

Nutrient Broth No. 2

Product Code: DM 2362

Application: - 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

Principle & Interpretation

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.

Methodology

Suspend 15 grams of powder media in 1000 ml distilled water. Shake well and heat to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Physical 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 Range 7.40-7.60

Cultural Response/ characteristics

DM 2362: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth
Enterobacter aerogenes ATCC 13048	50-100	luxuriant
Escherichia coli ATCC 25922	50-100	luxuriant
Klebsiella pneumoniae ATCC 13883	50-100	luxuriant
Salmonella Typhimurium ATCC 14028	50-100	luxuriant





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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: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

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.

Disclaimer :

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