



Dehydrated Culture Media
Bases / Media Supplements

Technical Information

Standard Nutrient Agar No. 1

Product Code: DM 2210

Application: - Standard Nutrient Agar No. 1 is used for cultivation of fastidious bacteria.

Composition**

Ingredients	Gms / Litre
Peptone, special	15.000
Yeast extract	3.000
Sodium chloride	6.000
Dextrose	1.000
Agar	12.000
Final pH (at 25°C)	7.5±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Nutrient media are basic culture media used for culturing maintaining microorganisms ⁽¹⁾, and to check culture purity prior to biochemical or serological testing.

Standard Nutrient Agar No. 1 is used for the isolation and enumeration of bacteria. Standard Nutrient Agar No. 1 can also be used as a culture media base, when supplemented with blood, ascetic fluids, serum or egg yolk etc which makes it suitable for the cultivation of relatively fastidious organisms ⁽²⁾. The media can be used for cultivation of Streptococci, Pneumococci and *Erysipelothrix* species.

Methodology

Suspend 37 grams of powder media in 1000 ml distilled water. Shake well & heat to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.

Quality Control

Physical Appearance

Cream to yellow homogeneous free flowing powder.

Gelling

Firm, comparable with 1.2% Agar gel.

Colour and Clarity of prepared medium

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

Reaction

Reaction of 3.7% w/v aqueous solution at 25°C. pH : 7.5±0.2

pH Range 7.30-7.70

Cultural Response/ characteristics

DM2210: Culture characteristics observed after incubation at 35°C for 18-48 hours.

Organism	Inoculum (CFU)	Growth	Recovery
<i>Escherichia coli</i> ATCC 25922	50-100	good-luxuriant	>=70%





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<i>Erysipelothrix rhusiopathiae</i> ATCC 19414	50-100	good-luxuriant	
<i>Listeria monocytogenes</i> ATCC 19111	50-100	good-luxuriant	>=70%
<i>Staphylococcus aureus</i> ATCC 25923	50-100	good-luxuriant	>=70%
<i>Streptococcus pneumoniae</i> ATCC 6303	50-100	good-luxuriant	>=70%
<i>Streptococcus pyogenes</i> ATCC 19615	50-100	good-luxuriant	>=70%
<i>Shigella flexneri</i> ATCC 12022	50-100	good-luxuriant	>=70%

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 J., 1970, Methods in Microbiology, Norris J. and Ribbons D., (Eds.), 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.

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