



Standard Nutrient Agar No. 1

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		

Directions

Suspend 37 grams in 1000 ml distilled water. Heat to boiling 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.

Principle And 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 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.

Quality Control

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

pН

7.30-7.70

Cultural Response

Organism	Inoculum (CFU)	Growth	Recovery
Cultural Response			
Escherichia coli ATCC	50-100	good-luxuriant	>=70%
25922			
Erysipelothrix rhusiopathiae	50-100	good-luxuriant	
ATCC 19414			
Listeria monocytogenes	50-100	good-luxuriant	>=70%
ATCC 19111			
Staphylococcus aureus	50-100	good-luxuriant	>=70%
ATCC 25923			
Streptococcus pneumoniae	50-100	$good\mathchar`-luxuriant$	>=70%
ATCC 6303			

M1210

Streptococcus pyogenes	50-100	good-luxuriant >=70%
ATCC 19615		
Shigella flexneri ATCC	50-100	good-luxuriant >=70%
12022		

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2-8°C. Use before expiry date on the label.

Reference

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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