

Nutrient Agar



Medium used for the cultivation of non fastidious bacteria.

*Equally use with MFDS (MB-N1036K) and QIA (MB-N1036Q).

• CONTENTS (Liter)

Peptone	5.0 g
Beef Extract	3.0 g
Agar	15.0 g
Final pH = 6.8 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 23.0 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45-50°C in water bath. Mix well. Mix well. Dispense in petri dishes. If necessary add sodium chloride 5.0 g.

• INTERPRETATION

Nutrient Agar is a general purpose medium used for the examination of bacteria in water and dairy products according to Standard methods for the examination of water and wastewater and Standard methods for the examination of dairy products. Peptone and beef extract provide nitrogen, carbon, amino acids, vitamins and minerals. Agar is the solidifying agent.

• TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 36 ± 1°C for 18 - 24 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: beige.

Prepared medium

Appearance: clear with no precipitate.

Color: light amber.

Incubation conditions: 36 ± 1°C / 18 - 24 hours

Microorganism	ATCC	Inoculum CFU	Growth
<i>Enterococcus faecalis</i>	29212	50-100	good
<i>Escherichia coli</i>	25922	50-100	good
<i>Pseudomonas aeruginosa</i>	27853	50-100	good

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2-8°C.

• REFERENCES

1. American Public Health Association. 1923. Standard methods of water analysis, 5th ed.
2. Association of Official Analytical Chemists. 1995. Official methods of analysis of AOAC International, 16th ed.
3. Marshall, R.T. (ed.). 1993. Standard methods for the microbiological examination of dairy products, 16th ed.
4. Refer to the MFDS and QIA.

• PACKAGE

Cat. No : MB-N1036 Nutrient Agar	500 G
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