

Nutrient Broth



Medium used for the cultivation and enumeration of nonfastidious bacteria.

*Equally use with MFDS (MB-N1037K).

• CONTENTS (Liter)

Peptone	5.0 g
Beef Extract	3.0 g
Final pH = 7.2 ± 0.2 at 25°C	

• PROCEDURE

Suspend 8.0 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. Pour into tubes.

• INTERPRETATION

Nutrient Broth is a medium used for the cultivation and enumeration of nonfastidious bacteria. It is the formula as specified by the American Public Health Association in standard methods for the examination of water, sewage and dairy products. Peptone and beef extract provide nitrogen, carbon, amino acids and minerals for the growth of microorganisms.

• TECHNIC

Inoculate the specimen using a sterile needle to the medium. 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: light beige

Prepared medium

Appearance: clear

Color: light amber

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

Microorganism	ATCC	Inoculum CFU	Growth
<i>Escherichia coli</i>	25922	50-100	good
<i>Staphylococcus aureus</i>	25923	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. 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.

• PACKAGE

Cat. No : MB-N1037 Nutrient Broth	500 G
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