

Mueller Hinton Broth



Medium used for antimicrobial susceptibility testing of aerobic microorganisms by the broth dilution method.

• CONTENTS (Liter)

Beef Extract	2.0 g
Casamino Acids	17.5 g
Starch	1.5 g
Final pH = 7.3 ± 0.2 at 25°C	

• PROCEDURE

Suspend 21.0 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

Mueller Hinton Broth is a medium used for antimicrobial susceptibility testing of aerobic microorganisms by broth dilution method. Beef extract and casamino acids provide nitrogen, carbon, vitamins and minerals. Starch neutralize toxic substances.

• TECHNIC

Inoculate the specimen with stab 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: beige

Prepared medium

Appearance: slightly opalescent

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>Pseudomonas aeruginosa</i>	27853	50-100	good
<i>Staphylococcus aureus</i>	25923	50-100	good
<i>Enterococcus faecalis</i>	29212	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 are evident. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Bauer et al. (1966). J. Clin. Pathol. 45:493-496.
2. Mueller, J.H., and Hinton. 1941. Proc. Soc. Exp. Biol. Med. 48: 330-333.
3. NCCLS. Performance standards for susceptibility testing; Twelve Informational Supplement. NCCLS Document M100-S12, January 2002.

• PACKAGE

Cat. No : MB-M1034 Mueller Hinton Broth	500 G
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