

Bennett's Agar



Medium used for the isolation and cultivation of Actinomycetes spp.

• CONTENTS (Liter)

Glucose	10.0 g
Yeast Extract	1.0 g
Bacto-peptone	2.0 g
Beef Extract	1.0 g
Agar	15.0 g
Final pH = 6.7 ± 0.2 at 25°C	

• PROCEDURE

Suspend 29.0 G in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. If necessary, adjust the pH 7.3 ± 0.2. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. If necessary, aseptically add 2 vials of Bennett's supplement (MB-B0755) for the isolation of Actinomycetes spp. Mix well. Pour into petri dishes.

Bennett's supplement

1 vial contents (Each vial is sufficient for 500 mL of medium)

Thiamine HCl	0.00025 g
Riboflavin	0.00025 g
Niacin	0.00025 g
Pyridoxin HCl	0.00025 g
Inositol	0.00025 g
Calcium Pantothenate	0.00025 g
Aminobenzoic Acid	0.00025 g
Biotin	0.000125 g
Cycloheximide	25.0 ppm
Nalidixic Acid	5.0 ppm

• INTERPRETATION

Bennett's Agar is a medium used for the isolation and cultivation of Actinomycetes spp. Glucose is the carbohydrate. Yeast extract, bacto-peptone and beef extract provide nitrogenous nutrients to the medium. Agar is the solidifying agent.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 28°C for 40 - 72 hours up to 7 days. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: beige

Prepared medium

Appearance: clear

Color: light amber

Incubation conditions: 28°C / 40 - 72 hours up to 7 days

Microorganism	ATCC	Growth
<i>Streptomyces albus</i>	3004	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. Curr. Res. J. Biol. Sci., 2(2): 124-131, 2010.

• PACKAGE

Cat. No : MB-B0664 Bennett's Agar	500 G
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