

Bennett's Broth



Medium used for the isolation and cultivation of Actinomycetes spp.

• CONTENTS (Liter)

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

• PROCEDURE

Suspend 14.0 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 tubes.

Bennett's supplement

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

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|----------------------|------------|
| 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 Broth 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.

• TECHNIC

Inoculate the specimen using a sterile needle 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

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|---------------------------------------|-------|
| Cat. No : MB-B0723 Bennett's Broth | 500 G |
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