

ISP Broth 1

Medium used for the cultivation and enumeration of *Streptomyces* spp.

• CONTENTS (Liter)

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|------------------------------|-------|
| Tryptone | 5.0 g |
| Yeast Extract | 3.0 g |
| Final pH = 7.0 ± 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

ISP Broth 1 is a medium used for the cultivation and enumeration of *Streptomyces* spp. Tryptone and yeast extract provide nitrogen, vitamins, carbon and amino acids.

• TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 30 ± 2°C for 48 - 96 hours. 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: 30 ± 2°C / 48 - 96 hours

| Microorganism | ATCC | Growth |
|------------------------------|-------|--------|
| <i>Streptomyces albus</i> | 3004 | good |
| <i>Escherichia coli</i> | 25922 | good |
| <i>Staphylococcus aureus</i> | 25923 | 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. Sherling E.B. and Gotlieb.,1966, International J.Systemic Bacteriol., 16:3.
2. Isenberg and Garcia (ed.). 2004 (update, 2007). Clinical microbiology procedures handbook, 2nd ed. American Society for Microbiology, Washington, D.C.

• PACKAGE

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| Cat. No : MB-I0714 ISP Broth 1 | 500 G |
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