

ISP Agar 4 (Inorganic Salts Starch Agar)



Medium used for the cultivation and enumeration of Streptomyces species.

• CONTENTS (Liter)

Soluble Starch	10.0 g
Dipotassium Phosphate	1.0 g
Magnesium Sulfate	1.0 g
Sodium Chloride	1.0 g
Ammonium Sulfate	2.0 g
Calcium Carbonate	2.0 g
Ferrous Sulfate	0.001 g
Manganese Chloride	0.001 g
Zinc Sulfate	0.001 g
Agar	20.0 g
Final pH = 7.2 ± 0.2 at 25°C	

• PROCEDURE

Suspend 37.0 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 petri dishes.

• INTERPRETATION

ISP Agar 4 (Inorganic Salts Starch Agar) is a medium used for the cultivation and enumeration of Streptomyces species. Soluble starch provides the energy source. Dipotassium phosphate is the buffering agent. Magnesium sulfate, ammonium sulfate, calcium carbonate, ferrous sulfate, manganese chloride and zinc sulfate provide trace minerals in the medium. Sodium chloride maintains the osmotic balance. Agar is the solidifying agent.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 25 - 30°C up to 15 days. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige

Prepared medium

Appearance: slightly opalescent with white precipitates

Color: light amber

Incubation conditions: 25 - 30°C / up to 15 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. Shirling E. B. and Gottlieb D., 1966, International J. Systemic Bacteriol. Vol 16 (3) :313.

- **PACKAGE**

Cat. No : MB-I0716 ISP Agar 4 (Inorganic Salts Starch Agar)	500 G
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