

ISP Agar 5 (Glycerol-Asparagine Agar)



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

• CONTENTS (Liter)

L-Asparagine	1.0 g
Dipotassium Phosphate	1.0 g
Ferrous Sulfate Heptahydrate	0.001 g
Manganese Chloride Tetrahydrate	0.001 g
Zinc Sulfate Heptahydrate	0.001 g
Agar	20.0 g
Final pH = 7.4 ± 0.2 at 25°C	

• PROCEDURE

Suspend 22.0 G of powder in 1 L of distilled or deionized water. Add 10 mL of Glycerol supplement (MB-G1821). 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 5 (Glycerol-Asparagine Agar) is a medium used for the cultivation and enumeration of *Streptomyces* species. L-Asparagine provides amino acid to the medium. Dipotassium phosphate is the buffering agent. Ferrous sulfate heptahydrate, manganese chloride tetrahydrate and zinc sulfate heptahydrate provide trace minerals in the medium. Agar is the solidifying agent. Glycerol provides the source of carbon and energy.

• 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: clear to slightly opalescent

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.
2. Murray P. R., Baron J. H., Pfaller M. A., Jorgensen J. H. and Tenover F. C., (Eds.), 2003, Manual of Clinical Microbiology, 8th Ed., American Society for Microbiology, Washington, D.C.

• PACKAGE

Cat. No : MB-I0717 ISP Agar 5 (Glycerol-Asparagine Agar)	500 G
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