

Lipase Isolation Agar

Medium used for the isolation and cultivation of lipolytic microorganisms in foods and other materials.

• CONTENTS (Liter)

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|------------------------------|--------|
| Gum Arabic Acid | 1.0 g |
| Peptone | 5.0 g |
| Yeast Extract | 1.0 g |
| Sodium Chloride | 30.0 g |
| Agar | 15.0 g |
| Final pH = 6.6 ± 0.2 at 25°C | |

• PROCEDURE

Suspend 52.0 G of powder in 1 L of distilled or deionized water. Add 2 vials of Lipase Isolation Agar supplement (MB-L3030). Mix well. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Pour into petri dishes.

Lipase Isolation Agar supplement

1 vial content (each vial is sufficient for 500mL of medium)

Tributylin 5.0 g

• INTERPRETATION

Lipase Isolation Agar is a medium for the isolation and cultivation of lipolytic microorganisms in foods and other materials. Lipolytic microorganisms are indicated by clear zone of surrounding the colonies in the otherwise turbid culture medium. Gum arabic acid and peptone provide nitrogen, amino acids, vitamins and minerals. Yeast extract provides vitamin B complex. Sodium chloride inhibits bacterial organisms other than staphylococci in the partial or complete. Agar is the solidifying agent.

• TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 30 ± 1°C for 48 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige

Prepared medium

Appearance: opaque

Color: light amber

Incubation conditions: 30 ± 1°C / 48 hours

| Microorganism | ATCC | Inoculum CFU | Growth | Lipase activity |
|------------------------------|-------|--------------|--------|-----------------|
| <i>Staphylococcus aureus</i> | 25923 | 50-100 | 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 or until signs of deterioration are evident. Store prepared medium at 2 - 8°C.

• REFERENCES

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3. Willis A. T., 1960, J. Path. Bacteriol., 80 (2): 379
4. Hayes P. R., 1963, J. Gen. Microbiol., 30: 1
5. Frayer T. T., Lawrence R. C., Reiter B, 1967, J. Dairy Sci., 50: 477.
6. MacFaddin J. F., 1985, Media for Isolation-Cultivation-Identification-Maintenance of Medical Bacteria, Vol. 1, Williams and Wilkins, Baltimore

• PACKAGE

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|---|-------|
| Cat. No : MB-L0998 Lipase Isolation Agar | 500 G |
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