

Tributylin Agar



Medium used for the detection and enumeration of lipolytic microorganisms in foods and other materials.

• CONTENTS (Liter)

Meat Peptone	2.5 g
Tryptone	2.5 g
Yeast Extract	3.0 g
Agar	12.0 g
Final pH = 7.5 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 20.0 G of powder in 1 L of distilled or deionized water. Add 2 vials of Tributyrin Agar supplement (MB-T3060). 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. Dispense in petri dishes.

Tributylin Agar supplement

1 vial content (each vial is sufficient for 500mL of medium)
Tributylin Mixture 5.0 mL

• INTERPRETATION

Tributylin Agar is a medium used for the detection and enumeration 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. Meat peptone and tryptone provide nitrogen, amino acids, vitamins and minerals. Yeast extract provides vitamin B complex. Agar is the solidifying agent.

• TECHNIC

Inoculate the plates with spreading the specimen on surface of medium using a sterile loop. Incubate at 36 ± 1°C for 24 - 48 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: beige.

Prepared medium

Appearance: turbid with slightly opalescent.

Color: light beige.

Incubation conditions: 36 ± 1°C / 24 - 48 hours

Microorganism	ATCC	Inoculum CFU	Growth	Lipase activity
<i>Staphylococcus aureus</i>	25923	50-100	good	+
<i>Pseudomonas aeruginosa</i>	27853	50-100	good	+
<i>Escherichia coli</i>	25922	50-100	good	-
<i>Salmonella typhimurium</i>	14028	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 or contamination are evident. Store prepared medium at 2-8°C.

• REFERENCES

1. Anderson J. A., 1939, Ber, IIIrd Int. Mikrobiol. Kongress, 3 : 726
2. Innes A. G., 1956, J. Appl. Bacteriol., 19: 39
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

Cat. No : MB-T2268 Tributyryn Agar	500 G
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