

Sierra Lipolytic Agar



Medium used for the isolation and cultivation of lipolytic bacteria.

• CONTENTS (Liter)

Peptone	10.0 g
Sodium Chloride	5.0 g
Calcium Chloride	0.1 g
Agar	25.0 g
Final pH = 7.0 ± 0.2 at 25°C	

• PROCEDURE

Suspend 40.1 G of powder in 990 mL of distilled or deionized water. Heat to boiling until completely dissolved. Add 10 mL of Tween 80 supplement (MB-T1861). Sterilize by autoclave at 121°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into petri dishes.

• INTERPRETATION

Sierra Lipolytic Agar is a medium used for the isolation and cultivation of lipolytic bacteria. Peptone provides nitrogen, carbon, amino acids and minerals. Sodium chloride maintains the osmotic balance. Lipolytic organisms split off the calcium chloride produces opaque zones around the colonies. Agar is the solidifying agent. Being soluble in water, Tween 80 is an ideal substrate for showing lipolytic activity.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 35 ± 2°C for 48 - 72 hours. 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

Color: light amber

Incubation conditions: 35 ± 2°C / 48 - 72 hours

Microorganism	ATCC	Growth	Halo
<i>Pseudomonas aeruginosa</i>	27853	good	+
<i>Staphylococcus aureus</i>	25923	good	+
<i>Candida albicans</i>	10231	good	+
<i>Escherichia coli</i>	25922	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. MacFaddin. (1985). Media for isolation-cultivation-identification identification-maintenance of medical bacteria, p. 695-699, vol. 1. Williams & Wilkins ,Baltimore, MD
2. Murray , Baron, Pfaller, Tenover, Tenover, Tenover, Tenover, Tenover, Tenover (ed.) (1995). .Manual of clinical microbiology, 6th ed. American Society for Microbiology, Washington, D.C.

• PACKAGE

Cat. No : MB-S1415 Sierra Lipolytic Agar	500 G
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