

# Anaerobic Egg Yolk Agar



Medium used for the isolation and identification of *Clostridium* spp.

\*Equally use with MFDS (MB-A1325K).

## • CONTENTS (Liter)

Tryptone	5.0 g
Yeast Extract	5.0 g
Proteose Peptone	20.0 g
Sodium Chloride	5.0 g
Agar	20.0 g
Final pH = 7.0 ± 0.2 at 25°C	

## • PROCEDURE

Suspend 55.0 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. Aseptically add 40 mL of Egg Yolk Emulsion (MB-E1864). Mix well. Pour into petri dishes.

## • INTERPRETATION

Anaerobic Egg Yolk Agar is a medium used for the isolation and identification of *Clostridium* spp. Tryptone, yeast extract and proteose peptone provide amino acids and other nitrogenous compounds necessary for the growth of anaerobic bacteria. Sodium chloride maintains the osmotic balance. Agar is the solidifying agent. Egg yolk emulsion serves as the substrate for detection of lecithinase and lipase activity.

## • TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 36 ± 1°C for 18 - 48 ± 3 hours under anaerobic condition. Refer appropriate references for recommended test procedure.

## • QUALITY CONTROL FOR USE

### Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light amber

### Prepared medium

Appearance: opaque

Color: yellow

Incubation conditions: 36 ± 1°C / 18 - 48 ± 3 hours under anaerobic condition

Microorganism	ATCC	Growth	Lecithinase	Lipase
<i>Clostridium perfringens</i>	13124	good	+ (opaque halo)	-
<i>Clostridium sporogenes</i>	11437	good	-	+ (iridescent sheen)

**• 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. Isenberg (ed.). 1992. Clinical microbiology procedures handbook, American Society for Microbiology, Washington, D.C.
2. Baron, Peterson and Finegold. 1994. Bailey & Scott's diagnostic microbiology, 9th ed. Mosby-Year Book, Inc., St. Louis, Mo.
3. Murray, Baron, Pfaller, Tenover and Tenover (ed.). 1999. Manual of clinical microbiology, 7th ed. American Society for Microbiology, Washington, D.C.
4. Refer to the MFDS.

**• PACKAGE**

Cat. No : MB-A1325 Anaerobic Egg Yolk Agar	500 G
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