

Breeze Agar Modified



Medium used for the cultivation and enumeration of *Lactobacillus* spp.

• CONTENTS (Liter)

Glucose	20.0 g
Yeast Extract	6.0 g
Sodium Chloride	5.0 g
L-Cysteine	0.5 g
Liver Extract	5.0 g
Polypeptone	15.0 g
Soluble Starch	0.5 g
Tween 80	1.0 g
Agar	15.0 g
Final pH = 6.5 ± 0.2 at 25°C	

• PROCEDURE

Suspend 68.0 G of powder in 600 mL of distilled or deionized water. Add 2 bottles of Breeze Modified supplement (MB-B3039). 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.

Breeze Modified supplement

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

Tomato Juice Solution 200 mL

• INTERPRETATION

Breeze Agar Modified is a medium used for the cultivation and enumeration of *Lactobacillus* spp. Glucose is the carbohydrate. Yeast extract, liver extract, polypeptone, tween 80 and breeze modified supplement provide nutrients for the growth of microorganisms. Sodium chloride maintains the osmotic balance. L-Cysteine is the reducing agent. Soluble starch neutralizes toxic metabolic by-products. Agar is the solidifying agent.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 35 ± 2°C for 40 - 48 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: beige

Prepared medium

Appearance : opalescent

Color: amber

Incubation conditions: 35 ± 2°C / 40 - 48 hours

Microorganism	ATCC	Inoculum CFU	Growth
* <i>Lactobacillus acidophilus</i>	4356	50-100	good
* <i>Lactobacillus bulgaricus</i>	11842	50-100	good
* <i>Lactobacillus fermentum</i>	9338	50-100	good
<i>Enterococcus faecalis</i>	29212	50-100	good

* Incubate under microaerobic condition

• 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.

• PACKAGE

Cat. No : MB-B0849 Breeze Agar Modified	500 G
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