

Mycoplasma (P.P.L.O.) Agar

Medium used for the cultivation and enumeration of Mycoplasma spp.

• CONTENTS (Liter)

Beef Heart Infusion	2.0 g
Tryptone	7.0 g
Beef Extract	3.0 g
Yeast Extract	3.0 g
Sodium Chloride	5.0 g
Agar	14.0 g
Final pH = 7.8 ± 0.2 at 25°C	

• PROCEDURE

Suspend 34.0 G of powder in 700 mL 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 2 vials of Mycoplasma supplement (MB-M0731). Mix well. Pour into petri dishes.

Mycoplasma supplement

1 vial contents (each vial is sufficient for 350 mL of medium)

Yeast Extract	0.45 g
Horse Serum	114 mL

• INTERPRETATION

Mycoplasma (P.P.L.O.) Agar is a medium used for the cultivation and enumeration of Mycoplasma spp. Beef heart infusion, tryptone, beef extract and yeast extract provide nitrogen, carbon, amino acids, vitamins and minerals. Sodium chloride maintains the osmotic balance. Agar is the solidifying agent.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 35 ± 2°C for 7 days under microaerobic condition. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige

Prepared medium

Appearance: clear to slightly opalescent

Color: light amber

Incubation conditions: 35 ± 2°C / 7 days under microaerobic condition

Microorganism	ATCC	Inoculum CFU	Growth
<i>Mycoplasma gallisepticum</i>	KVCC (BA1200149)	50-100	good
<i>Mycoplasma synoviae</i>	KVCC (BA0702556)	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. Store prepared medium at 2 - 8°C.

- **REFERENCES**

1. Lovett et al (1987) J. Food Protection 50: 188.
2. Refer to the MFDS.
3. Fraser and Sperber. 1988. J. Food Prot. 51:762.

- **PACKAGE**

Cat. No : MB-M2214 Mycoplasma (P.P.L.O) Agar	500 G
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