

Bordet Gengou Agar



Medium used for the isolation and cultivation of *Bordetella pertussis* and *Bordetella parapertussis*.

• CONTENTS (Liter)

Potato Infusion	4.5 g
Peptic Digest of Animal Tissue	5.0 g
Pancreatic Digest of Casein	5.0 g
Sodium Chloride	5.5 g
Agar	20.0 g
Final pH = 6.7 ± 0.2 at 25°C	

• PROCEDURE

Suspend 40.0 G of powder in 1 L of distilled or deionized water. Add 10 mL of Glycerol supplement (MB-G1821). 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 15% sterile Sheep Blood Defibrinated (MB-S1876) and 2 vials of Bordetella supplement (MB-B1813). Mix well. Pour into petri dishes.

Bordetella supplement

1 vial contents (each vial is sufficient for 500 mL of medium)
Cefalexin 0.02 g

• INTERPRETATION

Bordet Gengou Agar is a medium used for the isolation and cultivation of *Bordetella pertussis* and *Bordetella parapertussis*. Potato Infusion, Peptic digest of animal tissue and pancreatic digest of casein provide nitrogen, carbon, vitamins and minerals. Sodium chloride maintains the osmotic balance of the medium. Agar is the solidifying agent. Glycerol promotes the growth of microorganisms. Sheep blood defibrinated enables the detection of hemolytic of reactions. Bordetella supplement makes this medium more selective for *Bordetella pertussis* and *Bordetella parapertussis*.

• TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 35 ± 2°C for 48 - 72 hours up to 5 days. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: beige

Prepared medium

Appearance: opaque

Color: amber / red

Incubation conditions: 35 ± 2°C / 48 - 72 hours up to 5 days

Microorganism	ATCC	Inoculum CFU	Growth	Hemolysis
<i>Bordetella bronchiseptica</i>	4617	50-100	good	gamma
<i>Brodetella pertussis</i>	9797	50-100	good	beta
<i>Staphylococcus aureus</i>	25923	≥10 ³	inhibited	-

- **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. Bordet, J., and D. Gengou. 1906. Le microbe de la coqueluche. Ann. Inst. Pasteur 20: 731.
2. Isenberg, H.D. (ed.). 1992. Clinical microbiology procedures handbook, vol. 1. American Society of Microbiology, Washington, D.C.

- **PACKAGE**

Cat. No : MB-B1008 Bordet Gengou Agar	500 G
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