Campylobacter Blood Free Agar

Medium used for the isolation and cultivation of Campylobacter spp. from clinical samples.

• CONTENTS (Liter)

Nutrient Broth	25.0 g
Casein Peptone	3.0 g
Charcoal	4.0 g
Ferrous Sulfate	0.25 g
Sodium Desoxycholate	1.0 g
Sodium Pyruvate	0.25 g
Agar	12.0 g

Final pH = 7.4 ± 0.2 at 25°C

• PROCEDURE

Suspend 45.5 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 2 vials of Campylobacter C.C.D.A. supplement (MB-C1837). Mix well. Pour into petri dishes.

Campylobacter C.C.D.A. supplement

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

Cefoperazone	0.016 g
Amphotericin B	0.005 g

• INTERPRETATION

Campylobacter Blood Free Agar is a medium used for the isolation and cultivation of Campylobacter spp. from clinical samples. Nutrient broth and casein peptone provide nitrogen, carbon, vitamins and minerals. Charcoal, ferrous sulfate and sodium pyruvate promote the growth of Campylobacter spp. Sodium deoxycholate inhibits the growth of Gram-positive bacteria. Agar is the solidifying agent. Cefoperazone inhibits Gram-negative enteric bacilli and some Gram-positive microorganisms. Amphotericin B suppresses fungi.

• TECHNIC

Inoculate the specimen using a sterile loop to the medium. Incubate at 35 ± 2°C for 48 - 72 hours under microaerobic condition. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium
Appearance: free-flowing, homogeneous
Color: dark gray
Prepared medium
Appearance: opaque with precipitates
Color: black
Incubation conditions: 35 ± 2°C / 48 - 72 hours under microaerobic condition

Microorganism	ATCC	Inoculum CFU	Growth
Campylobacter jejuni	33291	50-100	good
Escherichia coli	25922	≥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. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Bolton, F. J., and D. N. Hutchinson. 1984. J. Clin. Pathol. 34:956-957. 4.
2. Bolton, F. J., D. N. Hutchinson, and G. Parker. 1988. Eur. J. Clin. Microbiol. Infect Dis. 7:155-160. 5.
3. Vanderzant, C., and D. F. Splittstoesser (eds.). 1992. Compendium of methods for the microbiological examination of food, 3rd ed. American Public Health Association, Washington, D.C
4. MAFF Validated methods for the analysis of foodstuffs. J. Assoc. Publ. Analysts (1993) 29: 253-262.
5. Atlas, R.M. (1997) Handbook of Microbiological Media, 2nd ed. 239-240.

• PACKAGE

Cat. No : MB-C1130 Campylobacter Blood Free Agar	500 G