

Campy Cefex Agar

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

*Equally use with MFDS (MB-C0803K) and QIA (MB-C0803Q).

• CONTENTS (Liter)

Peptic Digest Of Casein	10.0 g
Peptic Digest Of Animal Tissue	10.0 g
Sodium Chloride	5.0 g
Yeast Extract	2.0 g
Glucose	1.0 g
Sodium Pyruvate	0.5 g
Ferrous Sulfate	0.5 g
Sodium Bisulfite	0.3 g
Agar	15.0 g

Final pH = 6.9 ± 0.2 at 25°C.

• PROCEDURE

Suspend 44.3 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 Campy Cefex Agar supplement (MB-C0801) and 5% of Horse Blood Lysed (MB-H1885). Mix well. Dispense in petri dishes.

Campy Cefex Agar supplement**

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

Cycloheximide	0.1 g
Cefoperazone	0.0165 g

**Equally use with MB-C0801K and MB-C0801Q.

• INTERPRETATION

Campy Cefex Agar is a medium used for the isolation and cultivation of *Campylobacter* spp. from clinical samples. Peptic digest of casein, peptic digest of animal tissue and yeast extract provide nitrogen, amino acids, and vitamins. Sodium chloride maintains the osmotic balance. Glucose is a carbon energy source. Sodium pyruvate, ferrous sulfate and sodium bisulfite increase the aerotolerance of *Campylobacter* oxygen scavengers. Agar is the solidifying agent. Cycloheximide inhibits the growth of fungi. Cefoperazone is a selective agent to inhibit enteric flora. Horse blood lysed provides essential growth factors.

• TECHNIC

Inoculate the plates with spreading the specimen on surface of the medium using a sterile loop. Incubate at 42 ± 2°C for 48 - 72 hours under microaerobic conditions. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige

Prepared medium

Appearance: opaque

Color: reddish-dark brown

Incubation conditions: 42 ± 2°C 48 - 72 h under microaerobic condition

Microorganism	ATCC	Inoculum CFU	Growth
<i>Campylobacter jejuni</i>	33291	50-100	good
<i>Aspergillus niger</i>	16404	-	inhibited
<i>Escherichia coli</i>	25922	≥10 ³	inhibited
<i>Proteus mirabilis</i>	25933	≥10 ³	inhibited
<i>Saccharomyces cerevisiae</i>	76625	≥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. U.S. Food and Drug Administration. 1998. Bacteriological analytical manual, 8th ed., Rev A., AOAC International, Gaithersburg, MD.
2. Stern, N. J., B. Wojton and K. Kwiatek. 1992. A differential selective medium and dry ice generated atmosphere for recovery of *Campylobacter jejuni*. J. Food Prot. 55:514-517.
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. Murray, P. R., E. J. Baron, M. A. Pfaller, F
5. Refer to the MFDS and QIA.

• PACKAGE

Cat. No : MB-C0803 Campy Cefex Agar	500 G
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