

# Campylobacter Karmali Agar



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

## • CONTENTS (Liter)

Peptone	23.0 g
Starch, Soluble	1.0 g
Chacoal	4.0 g
Sodium Chloride	5.0 g
Hemin	0.032 g
Agar	10.0 g
Final pH = 7.4 ± 0.2 at 25°C.	

## • PROCEDURE

Suspend 43.13 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* Karmali supplement (MB-C1836). Mix well. Dispense into petri dishes.

### **Campylobacter Karmali supplement**

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

Sodium Pyruvate	0.05 g
Cefoperazone	0.016 g
Cycloheximide	0.05 g
Vancomycin	0.01 g

## • INTERPRETATION

*Campylobacter* Karmali Agar is a medium used for the isolation and cultivation of *Campylobacter* spp. from foods and clinical samples. Peptone provides nitrogen, amino acids, vitamins and minerals necessary to support bacterial growth. Starch is the carbohydrate source. Charcoal promotes the growth of *Campylobacter* spp. Sodium chloride maintains the osmotic balance. Sodium pyruvate is used for the enumeration of *Campylobacter* spp. Hemin provides essential nutrients for certain obligate anaerobes. Agar is the solidifying agent. Cefoperazone inhibits gram negative enteric bacilli and some gram positive microorganisms. Vancomycin inhibits gram positive organisms. Cycloheximide inhibits the growth of yeasts and fungi.

## • 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: dark gray

### Prepared medium

Appearance: opaque with a precipitate

Color: black

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

Microorganism	ATCC	Inoculum CFU	Growth
<i>Campylobacter jejuni</i>	33291	50-100	good
<i>Escherichia coli</i>	25922	≥10 <sup>3</sup>	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. Skirrow, M.D. 1977 Campylobacter enteritidis: A New Disease. Br. Med. J. 2:9-11.
2. Karmali, M.A., A.E. Simor, M. Roscoe. (1986). J. Clin. Microb. 23: 456-459.
3. Association of Official Analytical Chemists. 1995. Bacteriological analytical manual, 8th Ed.

**• PACKAGE**

Cat. No : MB-C1200 Campylobacter Karmali Agar	500 G
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