

**Specification**

Sterile selective supplement for the *Campylobacter spp.* especially in food samples.

**Presentation**

10 Freeze dried vials  
Vial  
with:  $3 \pm 0.1$  g

**Packaging Details**

23x60 mm glass vials, tag labelled, White plastic cap -  
10 vials per box.

**Shelf Life**

49 months

**Storage**

2-25 °C

**Composition**

Composition (g/vial)

Cefoperazone..... 0.016  
Amphotericin B..... 0.005

Note: Each vial is sufficient to supplemented 500 ml of Blood Free Campylobacter Agar Base.

Reconstitute the original freeze-dried vial  
by adding  
Sterile Distilled Water..... 5 ml

**Description /Technique**Description:

The formulation of Campylobacter Blood-Free Selective agar is a modification of the original Bolton's one first of all in the absence of blood, replaced by charcoal, ferrous sulphate and sodium pyruvate; then in the change of Cephazolin with Cefoperazone and the addition of Amphotericin which improve the selectivity of this medium.

Technique:

Collect, dilute and prepare samples and volumes as required according to specifications, directives, official standard regulations and/or expected results.

Reconstitute the vial with a of sterile diluent, pre-warmed to aprox. 37°C and add it to 500 ml of any melted Agar base para CCDA cooled to 50°C temperature before pouring into Petri dishes.

Once solidified on a flat surface, spread the plates by streaking methodology or by spiral method.

Incubate the plates in microaerophilic atmosphere at 40-42°C for 24-48h.

(Incubation times longer than those mentioned above or different incubation temperatures may be required depending on the sample or the specifications).

After incubation, count all the colonies that have appeared onto the surface of the agar.

Presumptive isolation of *Campylobacter spp.* must be confirmed by further microbiological and biochemical tests.

**Quality control****Physical/Chemical control**

Color : Yellowish-brown

**Microbiological control**

Reconstitute 1 vial as indicated in COMPOSITION; shake and dissolve completely

Add 1 vial to 500 ml of medium base. DO NOT HEAT once supplemented.

Microaerophilia. Incubation at  $35 \pm 2^\circ\text{C}$  or  $42 \pm 2^\circ\text{C}$  during 24-48 horas

Analytical methodology according to ISO 11133:2014/A1:2018; A2:2020.

Distribute the complete medium, cooled to  $50^\circ\text{C}$ , into 90 mm plates

Incubate according instructions for complete medium indicated in COMPOSITION.

Microaerophilia. Incubation at  $41,5 \pm 1^\circ\text{C}$ ; reading at  $44 \pm 4$  h

**Microorganism**

*Campylobacter jejuni* ATCC® 29428, WDCM 00156

*Camp. coli-jejuni* ATCC® 33291, WDCM 00005

*Escherichia coli* ATCC® 8739, WDCM 00012

*Stph. aureus* ATCC® 25923, WDCM 00034

**Growth**

Good ( $\geq 50\%$ )

Good ( $\geq 50\%$ )

Partial Inhibition

Inhibited

**Sterility control**

Add 5 ml of the sample to:

100 ml TSB and 100 ml Thioglycollate.

Incubation 48 h at  $30-35^\circ\text{C}$  and 48 h at  $20-25^\circ\text{C}$ : NO GROWTH.

## Bibliography

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