



Reference: 06-130LYO1

Scharlau Microbiology - Technical Data

Product: **Campylobacter Preston Selective Supplement**

### Specification

Sterile selective supplement for the isolation *Campylobacter* spp. from human, animal, avian and environmental specimen.

### Presentation

	Packaging Details	Shelf Life	Storage
10 Freeze dried vials			
Vial	23x60 mm glass vials, tag labelled, White plastic cap -	49 months	2-25 °C
with: 9 ± 0.3 g	10 vials per box.		

### Composition

Composition (g/vial)

**NOTE :** Each vial is sufficient to supplement  
500ml of *Campylobacter* PRESTON medium Base

Polymyxin.....	2500 IU
Rifampicin.....	0.005
Trimethoprim.....	0.005
Cycloheximide.....	0.050

Reconstitute the original freeze-dried vial  
by adding  
Ethanol..... 9 ml

### Description /Technique

#### Description:

The use of this supplement, added to *Campylobacter* Medium Base, with 5-7% lysed defibrinated horse or sheep blood, permits the isolation of *Campylobacter* spp. inhibiting the companion flora.

#### 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 the sterile diluent in aseptic conditions and add it to 500 ml of medium base cooled to 50°C, previously supplemented also with 5-7% lysed defibrinated horse or sheep blood and with *Campylobacter* Growth Supplement.

Do not overheat once supplemented.

- Agar Base:

Pour the complete medium into Petri dishes and, once solidified on a flat surface, spread the plates either by streaking or by spiral method.

Incubate the medium in microaerophilic conditions at 35 ± 2°C or 42 ± 2°C for 24-48h.

*Campylobacter* spp. best grown at 42°C.

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.

-Broth Base:

Dispense the complete medium into suitable containers and inoculate them with the tested specimens.

Incubate the medium in microaerophilic conditions at 35 ± 2°C or 42 ± 2°C for 24-48h.

*Campylobacter* spp. best grown at 42°C.

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

After incubation, subculture on Preston *Campylobacter* Selective Agar or *Campylobacter* Blood-Free Selective Agar.

In any case presumptive isolation of *Campylobacter* spp. must be confirmed by further microbiological and biochemical tests.



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## Quality control

### Physical/Chemical control

Color : Orange

### 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.

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

Distribute the complete medium, cooled to 50 °C, into 90 mm plates

Incubate according instructions for complete medium indicated in COMPOSITION.

Microaerophilic incubation at 35 ± 2 °C or 42± °C for 24-48 h

### **Microorganism**

### **Growth**

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

Good

*Campylobacter jejuni* ATCC® 29428, WDCM 00156

Good

*Escherichia coli* ATCC® 25922, WDCM 00013

Inhibited

*Stph. aureus* ATCC® 25923, WDCM 00034

Inhibited

### Sterility control

Add 5 ml of the sample to:

100 ml TSB and 100 ml Thioglycollate.

Incubation 48 h at 30-35 °C and 48 h at 20-25 °C: NO GROWTH.

## Bibliography

- BOLTON, F.J. & L. ROBERTSON (1982) A selective medium for isolating *Campylobacter jejuni/coli* J. Clin. Pathol. 35:462-467.
- BOLTON, F.J., D. COATES, P.M. HINCHLIFFE & L. ROBERTSON (1983) Comparative of selective media for isolation of *Campylobacter jejuni/ coli* J. Clin. Pathol. 36:78-83.
- CORRY, J.E.L., H.I. ATABAY, S.J. FORSYTHE & L.P. MANSFIELD (2003) Culture Media for the Isolation of *Campylobacters*, *Helicobacters* and *Arcobacters*, en Corry et al. (Eds) Handbook of Culture Media for Food Microbiology Chap 18 pgs 271-316. Elsevier Science B.V. Amsterdam.
- ISO 10272-1 Standard (2017) Microbiology of the food chain - Horizontal Method for detection and enumeration of *Campylobacter* spp. - Part 1: Detection method.
- ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.