Reference: 928030NL **Technical Data Sheet**

Product: **Campylobacter Growth Supplement**

Specification

Sterile enrichment supplement to improve the growth and the aerotolerance of *Campylobacter* spp.

Presentation

	Packaging Details	Shelf Life	Storage
10 Freeze dried vials Vial with: 3 ± 0.1 g	23x60 mm glass vials, tag labelled, White plastic cap - 10 vials per box.	49 months	2-25 ºC

Composition

Compositon (g/vial)

Sodium pyruvate..... 0.125
Sodium bisulphite.....0.125
Ferrous sulphate..... 0.125

Reconstitute the original freeze-dried vial by adding
Sterile Distilled Water.....6 ml

NOTE : Each vial is sufficient to supplement 500 ml of Agar Base for *Campylobacter* sps.

Description /Technique

Description:
The use of this supplement, added to Columbia Agar, Blood Agar Base No.2 or Campylobacter Agar Base, with 5-7% lysed defibrinated horse or sheep blood, allows a faster an easily way to determinate *Campylobacter* spp. providing a better tolerance to the conditions of incubation.
The following addition of antibiotics permits the suppression of 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 any melted Agar base cooled to 50ºC, previously supplemented also with 5-7% lysed defibrinated horse or sheep blood.
Do not overheat once supplemented.

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 plates in microaerophilic conditions at 35 ± 2ºC for 24-48h.
Campylobacter spp. best grown is at 42ºC (except *Campylobacter fetus subsp. fetus)*.

(Incubation times longer than those mentioned above or different incubation temperatures may be requied 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 : Orange pH: at 25ºC

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 ± 2ºC or 42 ± 2ºC during 24-48 horas

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

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

Incubate according instructions for complete medium indicated in COMPOSITION.

Microaerofilic incubation at 35 ± 2 ºC or 42± ºC for 24-48 h

Microorganism	Growth
Campylobacter jejuni ATCC® 29428, WDCM 00156	Good
Camp. coli-jejuni ATCC® 33291, WDCM 00005	Good

Sterility Control

Add 5 ml of the sample to:
100 ml TSB and 100 ml Thioglycollate.
Incubation 48 h at 30-35 ºC and 48 h at 20-25 ºC: NO GROWTH.

Bibliography

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· DIN 38411-6 (1991) Deutsche Einheitsverfahren zur Wasser-, Abwasser- und Schlammuntersuchung; Mikrobiologische Verfahren (Gruppe K); Nachweis von Escherichia coli und coliformen Keimen (K6)
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