Reference: 06-135LYO1 **Scharlau Microbiology - Technical Data**

Product: # Campylobacter Preston MOD 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 with: 3 ± 0.01 g	23x60 mm glass vials, tag labelled, White plastic cap - 10 vials per box.	49 months	2-25 ºC

Composition

Compositon (g/vial)

Polymyxin B	2500 IU
Rifampicin	0.005
Trimethoprim	0.005
Amphotericin B	0.005

Note : Each vial is sufficient to supplement 500ml of Campylobacter PRESTON medium Base (Solid or Liquid 01-451 or 02-561).

Reconstitute the original freeze-dried vial by adding :
Sterile Distilled Water/ Ethanol(50:50) 6 ml

Description /Technique

Description:

Campylobacter Preston Mod. Selective Suppl. is based on the formulation described by Bolton and Robertson with a change of one antibiotic.
The difference between Preston Mod. and Preston consist in the change of Amphotericin instead of Cycloheximide.
The complete supplemented medium was specifically formulated to be suitable for isolation of Campylobacter species from all types of specimens (human, animal, avian and environmental).

Tecnique:

Collect, dilute and prepare samples and volumes as required according to specifications, directives, official standard regulations and/or expected results.
Reconstitute the vial with 6ml of the sterile diluent in aseptic conditions and add it to 475 ml of the medium base cooled to 50ºC previously supplemented with 25 ml of lysed defibrinated horse or sheep blood
Do not overheat once supplemented.
Preston Campylobacter Selective Agar Base
Pour the complete medium into plates and inoculate it by streaking or spiral method..
Incubate the plates in microaerophilic conditions at 40-42ºC for 48-72h.
Campylobacter spp. best grown at 42°C (except *Campylobacter fetus* subsp. fetus).
Preston Broth Base
Pour the complete medium into tubes and inoculate it.
Incubate the plates in microaerophilic conditions at 40-42ºC for 48-72h.
Campylobacter spp. best grown at 42°C (except *Campylobacter fetus* subsp. fetus).
Subculture on Preston Campylobacter Selective Agar or Campylobacter Blood-Free Selective Agar.
Incubation times longer than those mentioned above or different incubation temperatures may be required depending on the sample, on the specifications.
Each laboratory must evaluate the results according to their specifications.
Presumptive isolation of Campylobacter sp must be confirmed by further microbiological and biochemical tests.

Product: Campylobacter Preston MOD Selective Supplement

Quality control

Physical/Chemical control

Color : Orange

Microbiological control

Inoculate 30-300 CFU (productivity) 1.000-10.000 CFU (selectivity)

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

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

Microaerofilic atmosphere. Incubation a 40-42 ºC for 48-72h

Microorganism	Growth
Campylobacter jejuni ATCC® 29428, WDCM 00156	Good
Camp. coli-jejuni ATCC® 33291, WDCM 00005	Good
Escherichia coli ATCC® 25922, WDCM 00013	Inhibited
Stph. aureus ATCC® 25923, WDCM 00034	Inhibited

Sterility control

100 ml TSB and 100 ml Thioglycollate.
Incubation 48 h at 30-35 ºC and 48 h at 20-25 ºC: NO GROWTH.
Check at 7 days after incubation in same conditions.

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.