

Specification

Selective liquid broth for isolation of *Campylobacter* spp.

Presentation

10 Prepared bottles
Bottles 125 ml
with: 90 ± 3 ml

Packaging Details

1 box with 10 bottles 125 ml. Injectable cap: Plastic screw inner cap. The use of syringes needles with a diameter greater than 0.8 mm is not recommended.

Shelf Life

6 months

Storage

8-25°C

Composition

Composition (g/l):

Casein Peptone..... 10.00
Meat Peptone..... 10.00
Sodium chloride..... 5.00
Agar..... 1.00
Cycloheximide..... 0.10
Trimethoprim..... 0.01
Rifampicin..... 0.01
Polymyxin B..... 5.000 UI

Add immediately before use:

Lysed Horse Blood 5-7%

Description /TechniqueDescription:

This medium supplemented with blood, antibiotics and reducing agents is used as a selective enrichment broth in the detection and isolation of *Campylobacter* from very contaminated samples.

Technique:

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

To obtain Preston Broth for Enrichment of *Campylobacter*, add Lysed Blood in a proportion of 5-7% (v/v),

Inoculate aseptically the bottles with the prepared sample or its dilution. Incubate the bottles, in microaerophilic atmosphere at 41,5 ± 1°C for 44± 4h.

Subculture onto appropriate secondary selective media for better isolation.

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

Each laboratory must evaluate the results according to their specifications.

Quality control**Physical/Chemical control**

Color : Brown

pH: 7.4 ± 0.2 at 25°C**Microbiological control**

Previous addition of 5% Defibrinated Sheep Blood

Prepare Tubes - Inoculate with 100 ± 20 CFU for Growth Promotion or 10^4 - 10^6 CFU for SelectivityMicroaerophilia. Incubation at $41,5 \pm 1$ °C; reading at 44 ± 4 h**Microorganism****Growth***Camp. coli* ATCC® 43478, WDCM 00004

Good

Campylobacter jejuni ATCC® 29428, WDCM 00156

Good

Escherichia coli ATCC® 8739, WDCM 00012

Partial Inhibition

Stph. aureus ATCC® 25923, WDCM 00034

Inhibited

Sterility Control

Incubation 48 hours at 30-35°C and 48 hours at 20-25°C: 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.