Reference: 102993AF **Technical Data Sheet**

Product: **Skirrow Selective Medium**

Specification

Selective culture medium for isolation of *campylobacter sp.*

Presentation

	Packaging Details	Shelf Life	Storage
20 Plates 90 mm with: 21 ± 2 ml	1 box with 2 packs of 10 plates/pack. Single cellophane.	2,5 months	2-14 ºC

Composition

Composition (g/l):

Proteose Peptone	15.000
Liver Digest	2.500
Yeast Extract	5.000
Sodium chloride	5.000
Agar	15.000
Vanconycin	0.010
Polymixin B	2500 IU
Trimethoprim	0.005
Defibrinated blood	50 ml

Description /Technique

Collect, dilute and prepare samples as required.

Spread the sample onto the plate by streaking methodology or by spiral method.Incubate the plates in inverted position in a microaerophilic atmosphere at 41,5 ± 1ºC for 44 ±4h. Preferably, spread with the same sample other non-enriched or non-selective media, previously defined by the laboratory, to have better and comparative results.

Different animal blood souce, greater incubation times, different tempertures, humidity or larger percentage of carbon dioxide in atmosphere,... may be required depending on the sample, on the specifications of the laboratory, the expected isolations to be found.

Each laboratory must be evaluate and report results carefully; this highly nutrtive medium allows recovery of a wide variety of fastidious anaerobic microorganisms.

Selective supplementation of the medium supresses almost all the accompanying flora.

Consider both hemolysis reactions and colony appearance as well as the results obtained from other culture media, as keys for microbiological identification (Calculate total microbial counts considering, if applied to the samples, the inverted dilution factors)

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

Quality control

Physical/Chemical control

Color : Red pH: 7.4 ± 0.2 at 25ºC

Microbiological control

Spiral Spreading: Practical range 100 ± 20 CFU. min. 50 CFU (productivity) / 10^4-10^6 CFU (selectivity).

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

Microaerophilia. Incubation at 41,5 ± 1 ºC; reading at 44±4 h

Microorganism	Growth
Escherichia coli ATCC® 25922, WDCM 00013	Inhibited
Campylobacter jejuni ATCC® 29428, WDCM 00156	Good
Enterococcus faecalis ATCC® 19433, WDCM 00009	Inhibited

Sterility Control

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

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· BOLTON, F.J., D. COATES, P.M. HINCHLIFFE & L. ROBERTSON (1983) Comparison 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 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.