

Reference: 6033

Technical Data Sheet

Product: CIN SUPPLEMENT

Specification

Sterile selective supplement used for Yersinia sp. isolation according to ISO 10273:2003.

Presentation

Shelf Life Storage **Packaging Details** 10 Freeze dried vials 49 months 2-25 ºC 23x50 mm glass vials, tag labelled, White plastic cap - 10 vials per box. with: 3 ± 0.1 g

Composition

Composition (g/vial)

Irgasan®...... 0.00200 Novobiocin.....

Reconstitute the original freeze-dried vial by adding

Note: Each via is sufficient to supplement 500 ml of Yersinia CIN Base

Description / Technique

Description:

Yersinia Selective supplement is based on the formulation of Schiemann and is added to Yersinia medium base (CIN) in order to obtain a final selective medium for the isolation and enumeration of Yersinia enterocolitica from clinical specimens and food.

Yersinia enterocolitica is becoming increasingly recognised as a cause of diarrhoeal disease of man and also polyarthritis, mesenteric adenitis and septicaemia.

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 5 ml of sterile diluent in aseptic conditions and add it to 500 ml of sterilized Yersinia enterocolitica agar base cooled to 50°C.

Do not overheat once suplemented.

Pour the complete medium into Petri dishes and, once solidified on a flat surface, spread the plates by streaking methodology or by spiral method. Incubate the plates in aerobic atmosphere at $30 \pm 2^{\circ}$ C for 24-48h.

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

After incubation, enumerate all the colonies that have appeared on the surface of the agar that have a red bull's-eye surrounded by a transparent border shape.

Presumptive isolation / recovery of Yersinia enterocolitica must be confirmed by further microbiological and biochemical tests.

Page 1 / 2 Revision date: 09/03/20



Reference: 6033

Technical Data Sheet

Product: CIN SUPPLEMENT

Quality control

Physical/Chemical control

Off-white pH: at 25°C Color:

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.

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

Incubate according instructions for complete medium indicated in COMPOSITION.

Aerobiosis. Incubation at 30 ± 1 °C, read after 24-48 h

Microorganism

Escherichia coli ATCC® 25922, WDCM 00013 Enterococcus faecalis ATCC® 29212, WDCM 00087 Stph. aureus ATCC® 25923, WDCM 00034 Yersinia enterocolitica ATCC® 9610, WDCM 00038

Sterility Control

100 ml TSB and 100 ml Thioalycollate. 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.

Growth

Partial Inhibition Inhibited Inhibited Good

Bibliography

- · ATLAS, R.M. & J.W. SNYDER (1995) Handbook of Media for Clinical Microbiology. CRC Press. Boca Raton. Fla. USA.
- · BAYLIS, C.L. (Ed.) (2007) Manual of Microbiological Methods for the Food and Drinks Industry. 5th ed. Guideline No. 43, Campden & Chorleywood Food Research Association. (CCFRA). U.K.
- · CORRY, J.E.L., G.D.W. CURTIS & R.M. BAIRD (2003) Handbook of Culture Media for Food Microbiology. Progress in Industrial Microbiology, vol. 37. Elsevier Science Amsterdam.
- De BOER, E. (2003) Isolation of Yersinia enterocolitica from foods in "Handbook of Culture Media for Food Microbiology". J.E.L. Corry et al. (Eds.) Elsevier Sci. B.V.
- · FDA (Food and Drug Adminstrations) (1998) Bacteriological Analytical Manual. 8th ed, revision A. AOAC International. Gaithersburg. MD. USA.
- · ISENBERG, H.D. (ed.) (1992) Clinical Microbiology Procedures Handbook. ASM. Washington. DC. USA.
- · ISO Standard 10273 (2003) Microbiology of food and animal feeding stuffs Horizontal method for the detection of presumptive pathogenic Yersinia enterocolitica.
- . ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.
- · SCHIEMAN, D.A. (1979) Synthesis of a selective medium for Yersinia enterocolitica. Can. J. Microbiol. 25:1298-1304.
- · SCHIEMAN, D.A. (1980) Yersinia enterocolitica: Observations on some growth characteristics and response to selective agents. Can. J. Microbiol. 26:1232-1240.
- · SCHIEMAN, D.A. (1982) Development of a two step enrichment procedure for recovery of Yersinia enterocolitica from food. Appl. Environm. Microbiol. 43:14:27.
- · WEAGANT, S.D. & P. FENG (2001) Yersinia, in "Compendium of Methods for the Microbiological Examination of Foods". 4th ed. Downes & Ito (Eds.) APHA. Washington. DC. USA.

Page 2 / 2 Revision date: 09/03/20