

Specification

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

Presentation

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

Composition

Composition (g/vial)

Cefsulodin.....	0.00750
Irgasan®.....	0.00200
Novobiocin.....	0.00125

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

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

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 supplemented.

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 ± 2°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.

Quality control**Physical/Chemical control**

Color : Off-white

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

Growth

Partial Inhibition

Inhibited

Inhibited

Good

Sterility control

Add 5 ml of the sample to:

100 ml TSB and 100 ml Thioglycollate.

Incubation 48 hours at 30-35 °C and 48 hours at 20-25 °C: NO GROWTH.

Bibliography

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