

**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 with: $3 \pm 0.1$ g	23x60 mm glass vials, tag labelled, White plastic cap - 10 vials per box.	49 months	2-25 °C

**Composition**

Composition (g/vial)

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

Note: Each vial 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  $30 \pm 2^\circ\text{C}$  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.

Precautions:

For in vitro diagnostic use. Do not reuse. For professional use only.

Do not use the product if it shows evidence of microbial contamination, discoloration, drying, cracking or other signs of deterioration.

**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.

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

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 ± 2 °C. Reading at 21 ±3h

**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 h at 30-35 °C and 48 h at 20-25 °C: NO GROWTH.

**Bibliography**

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