Technical Data Sheet

Yersinia selective supplement (CIN)

Ordering number: 1.03880.0010

Yersinia selective supplement (CIN) contains a mixture of Cefsulodin, Irgasan™ (Triclosan) and novobiocin in a lyophilized form.

Yersinia Selective Supplement (CIN) is in accordance with EN ISO 10273, FDA-BAM M35 and APHA.

Mode of Action

It largely suppresses the growth of accompanying flora by a selective enrichment of *Yersinia enterocolitica* when using with GranuCult® prime CIN (Cefsulodin, Irgasan™, Novobiocin) agar base acc. SCHIEMANN acc. ISO 10273 (article number 1.03871.0500).

Irgasan™ (Triclosan) highly inhibits accompanying microorganisms, together with crystal violet and sodium desoxycholate provided by the base medium. Cefsulodin and novobiocin improve the inhibition of Gram-negative bacteria like *Pseudomonas* spp. and Gram-positive bacteria like *Staphylococcus* spp. This combination makes the culture medium highly selective for *Yersinia*.

Typical Composition

Ingredient	Gram per vial	Final concentration [g/l]
Cefsulodin	0.0075	0.015
Irgasan™ (Triclosan)	0.002	0.004
Novobiocin	0.00125	0.0025

Preparation

Dissolve the lyophilisate in the original vial by adding of 1 ml of sterile, distilled water and 1 ml ethanol (96 %). Mix gently until dissolved.

Add the entire vial content aseptically to 500 ml of molten GranuCult® prime CIN (Cefsulodin, Irgasan™, Novobiocin) agar base acc. SCHIEMANN acc. ISO 10273 (article number 1.03871.0500) cooled to 45-50 °C. Mix thoroughly and pour to plates.

Storage

Usable up to the expiry date when stored dry and tightly closed at +2 °C to +8 °C.

Microbiological Performance

Yersinia selective supplement (CIN) is tested in GranuCult® prime CIN (Cefsulodin, Irgasan™, Novobiocin) agar base acc. SCHIEMANN acc. ISO 10273 (article number 1.03871.0500).

The performance test is in accordance with the current version of EN ISO 11133.
Test method: Performance testing of solid culture media - Qualitative method.

Qualitative method for solid media		
Test strain	**Specification**	
	Growth	**Typical reaction**
Yersinia enterocolitica ATCC® 9610 [WDCM 00038]	good	red centre
Yersinia enterocolitica ATCC® 23715 [WDCM 00160]	good	red centre
Yersinia enterocolitica DSM 13030 [WDCM 00216]	good	red centre
Escherichia coli ATCC® 8739 [WDCM 00012]	good	red centre
Escherichia coli ATCC® 25922 [WDCM 00013]	good	red centre
Staphylococcus aureus ATCC® 25923 [WDCM 00034]	total inhibition	-

Incubation: 24 ± 2 h at 30 ± 1 °C, aerobic.

Please refer to the actual batch related Certificate of Analysis.

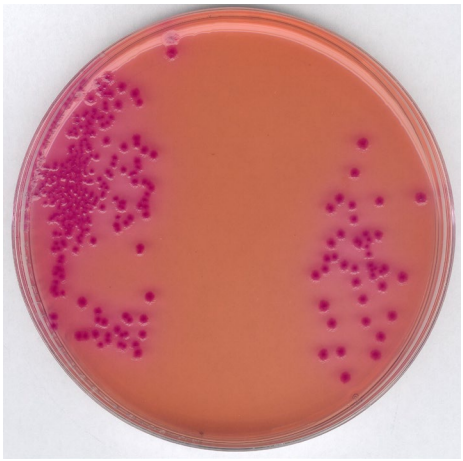
Literature

APHA (2015) Chapter No. 41: *Yersinia*. and Chapter No. 67: Microbiological media, reagents and stains. Compendium of Methods for the Microbiological Examination of Foods. 5th ed. American Public Health Association, Washington, D.C.

EN ISO International Standardisation Organisation. Microbiology of food, animal feed and water - Preparation, production, storage and performance testing of culture media + Amendment 1 + Amendment 2. EN ISO 11133:2014/Amd1:2018/Amd2:2020.

EN ISO International Standardisation Organisation. Microbiology of the food chain — Horizontal method for the detection of pathogenic *Yersinia enterocolitica*. EN ISO 10273:2017.

FDA-BAM (2018): Media Index for BAM - BAM Media M35: Cefsulodin-Irgasan Novobiocin (CIN) Agar or Yersinia Selective Agar (YSA). Food and Drug Administration - Bacteriological Analytical Manual.



Yersinia enterocolitica ATCC® 35669

Ordering Information

Product	Cat. No.	Pack size
Yersinia selective supplement (CIN)	1.03880.0010	10 x 1 vial
GranuCult® prime CIN (Cefsulodin, Irgasan™, Novobiocin) agar base acc. SCHIEMANN acc. ISO 10273	1.03871.0500	500 g