

### Specification

Sterile selective supplement used for isolation and enrichment of *Cronobacter sakazakii*.

### Presentation

	Packaging Details	Shelf Life	Storage
10 Freeze dried vials Vial with: 3 ± 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)	Note: Each vial is sufficient to supplement 500 ml of medium Base: CSB.
Vancomycin HCl..... 0.005	

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

### Description /Technique

#### Description:

Selective supplement added to the medium CSB, in order to inhibit most gram-positive flora present in the sample.

#### 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 a sterile diluent in aseptic conditions and add it to 500 ml of medium base cooled to room temperature.  
Do not overheat once supplemented.  
Pour the complete medium into suitable containers.  
Inoculate and incubate according to normatives and specifications.  
Presumptive isolation of the required microorganism must be confirmed by further tests.

### Quality control

#### Physical/Chemical control

Color : White-Gray

#### 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.

Aerobiosis. Incubation 41,5 ±1 °C, reading 24h ± 3 h

#### Microorganism

*Stph. aureus* ATCC® 25923, WDCM 00034 (1)  
*Cr. sakazakii* ATCC® 29544, WDCM 00214 + (1)  
*Cr. muytjensii* ATCC® 51329, WDCM 00213 + (1)

#### Growth

Inhibition (Partial to complet)  
Good. Yellow medium. recovery in CCI >10FCU  
Good. Yellow medium. recovery in CCI >10FCU

#### Sterility control

Study 5 vials - Reconstitute and dissolve each one in 100 ml of TSA + neutralizers - Pour into 90 mm plates.  
Incubation 24h at 30-35 °C and 72 h at 20-25 °C: NO GROWTH.  
Incubation 7 days at 32.5 ± 2 °C and 7 days at 22.5 ± 2 °C: NO GROWTH.

**Bibliography**

- ISO 22964 (2017) Microbiology of the food chain.- Horizontal method for the detection of *Cronobacter spp*
- IVERSEN C., A. LEHNER, N. MULLANE, J. MARUGG, S. FANNING, R. STEPHAN, and H. JOOSTEN (2007) The identification of *Cronobacter spp.* (*Enterobacter sakazakii*). J. Clin. Microbiol. 45: 3814-3816.
- IVERSEN, C., P. DRUGGAN, S. SCHUMACHER, A. LEHNER, C. FEER, K. GSCHWEND, H. JOOSREN and R. SDTEPHAN (2008) Development of a Novel Screening Method for the Isolation of "*Cronobacter*" spp. (*Enterobacter sakazakii*). Appl. Environm. Microbiol. 74: 2550-2553.