



# Regulatory News 2017

## New EN ISO 22964 for *Cronobacter* spp. detection in the food chain

### New EN ISO 22964 at a glance...

- EN ISO 22964 replaces previous Technical Standard ISO/TS 22964 I IDF/RM 210:2006
- Scope extended to *Cronobacter* spp.
- Modified Lauryl Sulfate Tryptose broth (mLST) replaced by Cronobacter Selective Broth (CSB)
- Enterobacter sakazakii Isolation Agar (ESIA) replaced by Chromogenic Cronobacter Isolation (CCI) agar
- Several confirmation tests replaced by other tests
- Performance testing for the quality assurance of the culture media now included
- Results from method validation studies and performance characteristics included

### New products from Merck

- 1.20597.0500 GranuCult™ CSB (Cronobacter Selective Broth) base acc. ISO 22964
- 1.20595.0010 CSB Selective supplement (Vancomycin) acc. EN ISO 22964
- 1.20596.0500 Chromocult® CCI (Chromogenic Cronobacter Isolation) agar acc. ISO 22964

The International Organization for Standardization (ISO) has published the new EN ISO 22964:2017 standard, which specifies a horizontal method for the detection of *Cronobacter* spp. in food, animal feed and environmental samples.

It is applicable to food products and ingredients intended for human consumption and the feeding of animals, and environmental samples in the area of food production and food handling. Compared to the previous ISO/TS 22964:2006, the main changes are considered as major. In the new EN ISO 22964:2017, the scope has been extended to detect *Cronobacter* spp. according to new taxonomy from 2014. *Cronobacter* spp. are those microorganisms which form typical colonies on chromogenic *Cronobacter* isolation (CCI) agar and which display the described biochemical characteristics when tests are carried out in accordance with this new standard.

To enable customers to follow EN ISO 22964:2017, Merck has released the newly described *Cronobacter* Selective Broth (CSB) and CCI agar products.

### Procedure steps for *Cronobacter* spp. detection according to the new EN ISO 22964:2017 standard.

Day	Procedure Step	Details
1	Pre-enrichment	Test portion sample (10 g or 10 mL) + Buffered Peptone Water (BPW) 90 mL 18 h (± 2) • 34 °C - 38 °C
2	Selective enrichment	0,1 mL of culture + 10 mL Cronobacter Selective Broth (CSB) 24 h (± 2 h) • 41,5 °C (± 1 °C)
3	Plating-out	Streak onto Chromogenic Cronobacter Isolation (CCI) agar 24 h (± 2 h) • 41,5 °C (± 1 °C)
4	Confirmation	Test 1 typical colony. If negative, test other 4 marked colonies. Streak onto non-selective agar (e.g. Tryptic Soy Agar [TSA]) 21 h (± 3) • 34 °C - 38 °C
5	Analysis	Biochemical/serological testing
6	Expression of result	Expression of results

As a worldwide leading provider of a broad range of dehydrated granulated and ready-to-use culture media for food, beverages and water microbiology, Merck closely tracks and supports the development of relevant standards aimed at increasing consumer confidence and safety.

Merck's GranuCult™ granulated media, Readybag® pre-weighed granulated media in ready-to-use bags, ReadyPlate™, and ReadyTube™ ready-to-use media are all compliant with EN ISO 11133:2014. All information regarding compliance with additional reference standards are displayed on the product label and in the product's technical information available on our website.

## Compliance to New EN ISO 22964:2017

Merck has implemented all the requirements described in the new EN ISO 22964. For more information, please visit [merckmillipore.com/culture-media](http://merckmillipore.com/culture-media). The following culture media and accessories described in the new ISO 22964:2017 are available:



## Ordering Information

Product	Pack size	Catalogue No.	Other pack sizes available
GranuCult™ Buffered Peptone Water acc. ISO 6579, ISO 21528, ISO 22964, FDA-BAM and EP	500 g	1.07228.0500	5 kg, 25 kg
RReadybag® Buffered Peptone Water acc. ISO 6579, ISO 21528, ISO 22964, FDA-BAM and EP, 5.7 g, irradiated	60 bags	1.02448.0060	60 bags x 29 g, 35 bags x 86 g
ReadyTube™ 225 BPW ISO 6579, ISO 6887, ISO 21528, ISO 11290, FDA-BAM and EP	6 x 225 mL	1.46404.0006	6 x 1000 mL, 20 x 9 mL
GranuCult CSB (Cronobacter Selective Broth) base acc. ISO 22964	500 g	1.20597.0500	
CSB Selective supplement (Vancomycin) acc. ISO 22964	10 x 1 vial (5 mg each)	1.20595.0010	
Chromocult® CCI (Chromogenic Cronobacter Isolation) agar acc. ISO 22964	500 g	1.20596.0500	
GranuCult™ Tryptic Soy Agar EP, USP, JP, ISO and FDA-BAM	500 g	1.05458.0500	5kg
MR-VP (Methyl Red-VOGES-PROSKAUER)	500 g	1.05712.0500	
Phenol-red broth (base)	500 g	1.10987.0500	
Bactident® Oxidase	50 strips	1.13300.0001	

## To Place an Order or Receive Technical Assistance

Find contact information for your country at: [merckmillipore.com/offices](http://merckmillipore.com/offices)  
For Technical Service, please visit: [merckmillipore.com/techservice](http://merckmillipore.com/techservice)

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