

BacterLab Division



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CHROMOGENIC AGAR MEDIUM

BacterChrom™ Cronobacter

Ready-to-use chromogenic medium on 90mm plates for isolating *Cronobacter* bacteria according to ISO 22964 standards.

Code: 01043



1. INTENDED USE

BacterChrom™ Cronobacter is a selective chromogenic medium designed for the isolation and detection of *Cronobacter* species. It is particularly useful for testing food, animal feed, and environmental samples, in compliance with ISO 22964 standards. This medium supports rapid and reliable screening for *Cronobacter* spp., aiding in food safety and quality control processes.

The packaging with semi-permeable Cellophane film helps balance the humidity of the environment during storage.

2. PRINCIPLES

BacterChrom™ Cronobacter contains chromogenic substrates that interact with specific enzymatic activities of *Cronobacter* spp., producing green to blue colonies for easy identification. Selective agents suppress non-target organisms, ensuring high specificity. This formulation facilitates efficient isolation and differentiation of *Cronobacter* spp. from other Gram-negative bacteria and contaminants.

3. TYPICAL COMPOSITION

For 1 liter of medium

Casein Peptone	7,0 g
Yeast extract	3,0 g
Agar	15,3 g
NaCl	5,0 g
5-bromo-4-chloro-3-indolyl- α -D-glucopyranoside	0,15 g
Sodium desoxycholate	0,25 g
Ammonium iron(III) citrate	1,0 g
Sodium thiosulfate	1,0 g

pH of the ready-to-use medium at 25°C: $7,3 \pm 0,2$

4. PREPARATION

The environmental plates are ready-to-use, no preparation required.

5. INSTRUCTIONS FOR USE

- Allow to warm to room temperature before inoculation, dry the plates in an incubator with the covers partially removed.
- From an appropriate enrichment broth, streak a loopful (10 μ L) onto plate.
- Incubate at $41,5 \pm 1^\circ\text{C}$ for 24 ± 2 hours, in aerobic conditions

6. RESULTS

Qualitative reading and interpretation of the plates:

Microorganism	Typical colony appearance
<i>Cronobacter</i> spp.	green to blue
Other Gram (-) bacteria	colorless, clear green, black, yellow
Gram (+) bacteria	inhibited

7. QUALITY CONTROL

BacterLab ensures the quality of each product batch by testing with ATCC reference strains.

Reference strains	Incubation conditions	Expected results
<i>C. sakazakii</i> ATCC 29544	Incubate for 24 hours at 41,5°C	Green colonies
<i>E. coli</i> ATCC 35218		Colorless colonies
<i>S. aureus</i> ATCC 25923		Inhibited
<i>E. faecalis</i> ATCC 29212		Inhibited

8. STORAGE AND TRANSPORT CONDITIONS

- Storage: 2 – 8°C.
- Transportation: Ambient temperature.

9. PACKAGING

- Packaging: 10 plates/ box or as per customer request.

10. SHELF LIFE

- Expiration Date: 03 months from the manufacturing date.

11. BIBLIOGRAPHY

- CHROMagar, 2021. CHROMagar™ Technical Data Sheet: NT-EXT-098 NOTICE MC V2.1. Available at: <https://www.chromagar.com/wp-content/uploads/2021/11/NT-EXT-098-NOTICE-MC-V2.1.pdf>.