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CHROMOGENIC AGAR MEDIUM

BacterChromTM Identification Listeria

Ready-to-use chromogenic medium on 90mm plates for the confirmation of *L. monocytogenes* species from suspect colonies

Code: 01030



1. INTENDED USE

BacterChromTM Identification Listeria is a selective chromogenic medium designed for the confirmation and differentiation of *Listeria monocytogenes* species from colonies isolated on BacterChromTM Listeria. This medium supports microbiological testing in food safety and environmental monitoring by distinguishing pathogenic *L. monocytogenes* from other *Listeria* species, such as *L. ivanovii* and *L. innocua*.

This medium is intended for use in food processing facilities, helping to prevent contamination across various stages of the production chain.

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

2. PRINCIPLES

BacterChromTM Identification Listeria incorporates chromogenic substrates that react with specific enzymatic activities of *Listeria monocytogenes*, producing distinct colony appearances. The selective agents inhibit the growth of non-target organisms, ensuring specificity. This allows for a rapid presumptive identification process, simplifying laboratory workflows and supporting food safety protocols.

3. TYPICAL COMPOSITION

For 1 liter of medium

Peptone and yeast extract	23,0 g
Chromogenic mix	8,8 g
Sodium chloride	5,5 g
Agar	15,0 g
Selective and enrichment mix	6,5 g

pH of the ready-to-use medium at 25°C: $6,6 \pm 0,2$

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.
- Select typical isolated colonies from BacterChromTM Identification Listeria, characterized by blue colonies with a white halo after 24 ± 2 hours of incubation at 37 °C ± 1 °C.
- Do a zigzag streak on the surface of the medium.
- Incubate 18 hours to 24 hours at 37 °C \pm 1 °C.

6. RESULTS

Qualitative reading and interpretation of the plates:

BacterLab ISO 13485 | ISO 9001 **INSTRUCTION FOR USE**



Microorganism	Typical colony apprearance	
L. monocytogenes	pink surrounded by a white halo	
L. ivanovii	colourless surrounded by a white halo	
L. innocua	pink without halo	
L. seeligeri	colorless without halo	
B. cereus	colorless with irregular edge (intense halo)	

7. QUALITY CONTROL

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

Reference strains	Incubation conditions	Expected results
L. monocytogenes ATCC 13932		pink with halo colonies
L. innocua ATCC 33091	Incubate for $18-24$	pink without halo colonies
L. ivanovii ATCC 19119	hours at $35 - 37$ °C	colorless with halo colonies
B. cereus ATCC 10876		colorless with big halo colonies

8. STORAGE AND TRANSPORT CONDITIONS

- Storage: $2 8^{\circ}$ 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*TM *Technical Data Sheet: NT-EXT-026 V9.1 NOTICE IDLIST*. Available at: https://www.chromagar.com/wp-content/uploads/2021/11/NT-EXT-026-V9.1-NOTICE-IDLIST.pdf.