

BacterLab Division



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CHROMOGENIC AGAR MEDIUM

BacterChrom™ C.perfringens

Ready-to-use chromogenic medium on 90mm plates for the detection and enumeration of *Clostridium perfringens*

Code: 01032



1. INTENDED USE

BacterChrom™ C.perfringens is a selective chromogenic medium designed for the detection and enumeration of *Clostridium perfringens* in food, water, and environmental samples.

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

2. PRINCIPLES

BacterChrom™ C.perfringens utilizes chromogenic substrates that react with specific enzymatic activities of *Clostridium perfringens*, resulting in distinct orange colonies. Selective agents inhibit the growth of non-target organisms, ensuring specificity. This medium allows rapid and easy differentiation of *C. perfringens* from other microorganisms, streamlining microbiological workflows.

3. TYPICAL COMPOSITION

For 1 liter of medium

Peptone and yeast extract	25,0 g
Chromogenic and selective mix	1,4 g
Salt	6,0 g
Agar	15,0 g
Growth factors	3,5 g
Selective mix	2,0 g

pH of the ready-to-use medium at 25°C: 7,6 ± 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.
- Direct streaking sample onto the plate
- Incubate in aerobic conditions at 37°C for 24 hours.

6. RESULTS

Qualitative reading and interpretation of the plates:

Microorganism	Typical colony appearance
<i>C. perfringens</i>	orange
Other bacteria	blue or 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. perfringens</i> ATCC 12920	18 – 24 hours, 35 – 37°C	Orange colonies
<i>E. faecalis</i> ATCC 29212		inhibited
<i>E. coli</i> ATCC 35218		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-092 NOTICE PF V3.1. Available at: <https://www.chromagar.com/wp-content/uploads/2021/11/NT-EXT-092-NOTICE-PF-V3.1.pdf>.