

BacterLab Division



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CHROMOGENIC AGAR MEDIUM

BacterChrom™ *Y.enterocolitica*

Ready-to-use chromogenic medium on 90mm plates for the detection and differentiation of pathogenic *Yersinia enterocolitica* strains

Code: 01038



1. INTENDED USE

BacterChrom™ Y. enterocolitica is a selective chromogenic culture medium designed for the direct qualitative detection, differentiation, and presumptive identification of pathogenic biotypes of *Yersinia enterocolitica*.

The medium can also be applied in food and environmental analyses for the detection of *Y. enterocolitica* in products such as recreational water, livestock, and raw or processed foods.

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

2. PRINCIPLES

BacterChrom™ Y. enterocolitica utilizes chromogenic substrates that interact with specific enzymatic activities of target bacteria, producing distinct colony colors for differentiation. The medium incorporates selective agents to inhibit the growth of non-target organisms, ensuring high specificity. This approach enhances the accuracy of detection and simplifies the presumptive identification process.

3. TYPICAL COMPOSITION

For 1 liter of medium

Peptone	20,0 g
Chromogenic mix	1,3 g
Salt	5,0 g
Agar	15,0 g
Selective mix (supplement)	0,1 g

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

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.
- Direct streaking sample onto the plate
- Incubate in aerobic conditions at $30 \pm 2^\circ\text{C}$ for 36 – 48 hours.

6. RESULTS

Qualitative reading and interpretation of the plates:

Microorganism	Typical colony appearance
Pathogenic <i>Y. enterocolitica</i>	mauve
<i>Yersinia spp</i>	metallic blue or inhibited
Other <i>Enterobacteriaceae</i>	metallic blue or inhibited
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>Y. enterocolitica</i> pYV+ ATCC 23715	Incubate for 36 – 48 hours at 30 ± 2°C	Mauve colonies
<i>E. coli</i> ATCC 35218		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-71 V6.1. Available at: <https://www.chromagar.com/wp-content/uploads/2021/12/NT-EXT-71-V6.1.pdf>.