

BacterLab Division



Issue date: 02/01/2025

Version: 01.2025



CHROMOGENIC AGAR MEDIUM

BacterChrom™ O157 Agar

Ready-to-use chromogenic medium on 90mm plates for the isolation and differentiation of *E. coli* O157 in food and clinical samples.

Code: 01015



1. INTENDED USE

BacterChrom™ O157 Agar is a chromogenic medium specifically designed for the selective isolation and differentiation of *E. coli* O157 in animal and food samples.

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

2. PRINCIPLES

BacterChrom™ O157 Agar employs chromogenic substrates that react with specific enzymes, allowing the differentiation of microorganisms based on colony color. The selective agents in the medium inhibit the growth of non-target organisms, providing a clear and reliable visual distinction. This simplifies the detection process and ensures accurate presumptive identification of *E. coli* O157.

3. TYPICAL COMPOSITION

For 1 liter of medium

Tryptone	8,0 g
Sorbitol	7,0 g
Bile salts mixture	1,5 g
Sodium lauryl sulphate	0,1 g
Chromogenic mix	0.25 g
Agar	12,0 g

pH of the ready-to-use medium at 25°C: 6,8 ± 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 aerobically at 37 °C for 24 hours

6. RESULTS

Qualitative reading and interpretation of the plates:

Microorganism	Typical colony appearance
<i>E. coli</i> O157	Mauve
<i>Coliforms</i>	metallic blue
<i>Proteus</i>	colourless to grey

7. QUALITY CONTROL

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

Reference strains	Incubation conditions	Expected results
<i>E.coli</i> O157:H7 ATCC 35150	Incubate for 18 – 24 hours at 35 – 37 °C	Good growth, mauve colonies
<i>E.coli</i> ATCC 35218		Good growth, metallic blue colonies
<i>K. pneumoniae</i> NCTC 13442		Good growth, metallic blue colonies
<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-003 NOTICE EE V9.1. Available at: <https://www.chromagar.com/wp-content/uploads/2021/11/NT-EXT-003-NOTICE-EE-V9.1.pdf>