

BacterLab Division



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CHROMOGENIC AGAR MEDIUM

BacterChrom™ Mastitis

Ready-to-use chromogenic medium on 90mm plates for the isolation and differentiation of the main pathogens involved in Mastitis infections

Code: 01039



1. INTENDED USE

BacterChrom™ Mastitis is a selective chromogenic medium designed for the isolation and differentiation of the main Gram (+) pathogens involved in *Mastitis* infections.

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

2. PRINCIPLES

BacterChrom™ Mastitis uses chromogenic substrates that react with specific enzymatic activities of target bacteria, leading to distinct colony colors for differentiation. The medium incorporates selective agents to inhibit the growth of non-target organisms, ensuring high specificity and simplifying the identification process. This design supports the rapid and accurate detection of Gram-positive bacteria associated with mastitis.

3. TYPICAL COMPOSITION

For 1 liter of medium

Peptone and yeast	20,0 g
Chromogenic mix	2,4 g
Salt	5,0 g
Agar	15,0 g
Growth factor (supplement)	8 mL

pH of the ready-to-use medium at 25°C: 6,9 ± 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 35 – 37°C for 24 hours.

6. RESULTS

Qualitative reading and interpretation of the plates:

Microorganism	Typical colony appearance
<i>S. agalactiae</i>	turquoise blue
<i>S. uberis</i>	metallic blue
<i>S. aureus</i>	pink
Gram (-) bacteria	inhibited
Other microorganism	various

7. QUALITY CONTROL

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

Reference strains	Incubation conditions	Expected results
<i>S. agalactiae</i> ATCC 12386	Incubate for 24 hours at 35 – 37 °C	Turquoise blue colonies
<i>S. aureus</i> ATCC 25923		Pink colonies
<i>E. coli</i> ATCC 35218		Inhibited
<i>C. albicans</i> ATCC 10231		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-096 Page Presentation PDF Internet. Available at: <https://www.chromagar.com/wp-content/uploads/2021/11/NT-EXT-096-PAGE-PRESENTATION-PDF-INTERNET.pdf>.