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CHROMOGENIC AGAR MEDIUM

BacterChromTM Streptococcus

Ready-to-use chromogenic medium on 90mm plates for the isolation and differentiation of *Streptococcus spp*.

Code: 01037

BacterLab ISO 13485 | ISO 9001 INSTRUCTION FOR USE



1. INTENDED USE

BacterChromTM Streptococcus is a selective chromogenic medium designed for the isolation and differentiation of *Streptococcus* species. It is particularly useful in detecting environmental *Streptococci*, which are major mastitis pathogens causing persistent infections, high somatic cell counts, and milk contamination.

The medium supports mastitis diagnosis by enabling differentiation of species involved in udder infections. It is also effective in samples with complex bacterial flora, such as milk, where *Streptococci* are prevalent.

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

2. PRINCIPLES

BacterChromTM Streptococcus utilizes chromogenic substrates that react with specific enzymatic activities of target bacteria, resulting in colonies with distinct colors for differentiation. The medium also incorporates selective agents to inhibit the growth of non-target organisms, ensuring high specificity. This combination simplifies and accelerates the identification process, supporting accurate and efficient diagnostics.

3. TYPICAL COMPOSITION

For 1 liter of medium

Peptone and yeast	8,3 g
Chromogenic mix	20,4 g
Agar	15,0 g
Salt	7,5 g
Growth factor	8 mL

pH of the ready-to-use medium at 25°C: 7.3 ± 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 and read at 24 hours.

6. RESULTS

Qualitative reading and interpretation of the plates:

Microorganism	Typical colony apprearance	
S. agalactiae	blue	
S. uberis	mostly pink to purple	
Enterococcus	mauve to violet-mauve	
Other Streptococcus	various	

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Other Gram (+) bacteria	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
S. agalactiae ATCC 12386	Incubate for 24 hours at 35 - 37 °C	Blue colonies
E. faecalis ATCC 29212		Mauve colonies
C. albicans ATCC 10231		Inhibited
E. coli ATCC 35218		Inhibited
S. aureus ATCC 25923		Inhibited

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. CHROMagarTM Technical Data Sheet: NT-EXT-084 Notice CQ.
V3.1. Available at: https://www.chromagar.com/wp-content/uploads/2021/12/NT-EXT-084-NOTICE-CQ.-V3.1.pdf.