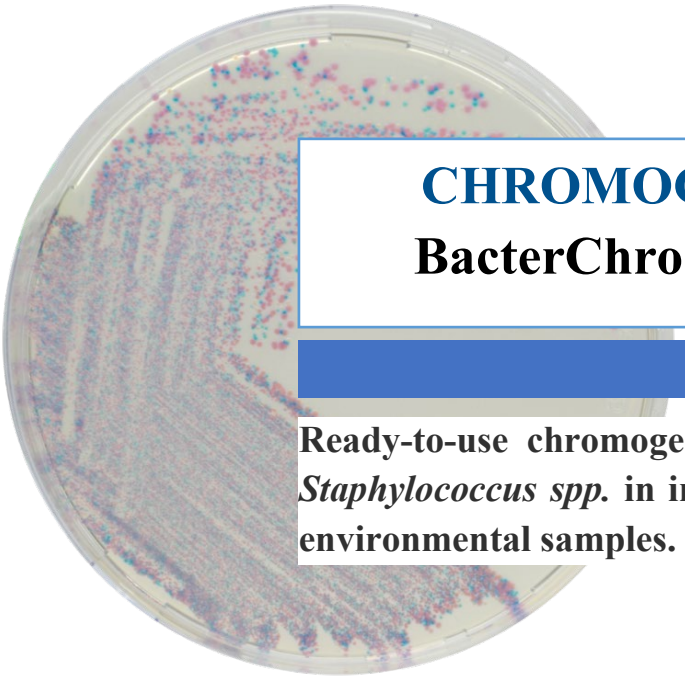
BacterLab Division

Issue date: 02/01/2025
Version: 01.2025



CHROMOGENIC AGAR MEDIUM

BacterChrom™ Staphylococcus Agar

Ready-to-use chromogenic medium on 90mm plates for isolating *Staphylococcus spp.* in industrial products, veterinary samples, and environmental samples.

Code: 01019

1. INTENDED USE

BacterChrom™ Staphylococcus Agar is a selective chromogenic medium designed for the isolation and direct differentiation of *Staphylococcus* species from industrial products, veterinary samples, and environmental specimens. This medium enables the identification of target microorganisms based on colony color and morphology, providing results after 18 – 24 hours of incubation at 37°C under aerobic conditions.

It is intended for research and diagnostic purposes in industrial, veterinary, and environmental testing settings.

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

2. PRINCIPLES

BacterChrom™ Staphylococcus Agar facilitates the differentiation of *Staphylococcus* species through chromogenic reactions based on specific enzymatic activities. These reactions produce distinct colony colors, enabling easy presumptive identification. The medium also includes selective agents to inhibit the growth of non-target organisms, ensuring specificity and minimizing interference.

3. TYPICAL COMPOSITION

For 1 liter of medium

Peptones	19,4 g
Activators	21,7 g
Buffering system	1,4 g
Selective system	4,5 g
Bacteriological agar	14,4 g
Bovine fibrinogen	5,3 g
Rabbit plasma, EDTA	25 mL
Trypsin inhibitor	25 mg
Potassium tellurite	25 mg

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 at 37°C in aerobic conditions and read at 18 hours and 24 hours.

6. RESULTS

Qualitative reading and interpretation of the plates:

Microorganism	Typical colony appearance
S. aureus	pink to mauve
S. epidermidis	colourless to pinkish
S. saprophyticus	turquoise blue
Other Staphylococci	various
Streptococci	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. aureus ATCC 25923	Incubate for 18 – 24 hours at 35 – 37 °C	Mauve colonies
S. saprophyticus ATCC 15305		Turquoise blue colonies
E. coli ATCC 35218		Inhibited
C. albicans ATCC 10231		Inhibited
E. faecalis 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-083 NOTICE CQ V3.1*. Available at: https://www.chromagar.com/wp-content/uploads/2021/11/NT-EXT-083-NOTICE-CQ-V3.1.pdf