

BacterLab Division



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CHROMOGENIC AGAR MEDIUM

BacterChrom™ Salmonella RB Agar

Ready-to-use chromogenic medium on 90mm plates for the cultivation and identification of *Salmonella* in clinical specimens, food, water, and environmental samples.

Code: 01050



1. INTENDED USE

BacterChrom™ Salmonella RB Agar is a selective chromogenic medium designed for the detection and isolation of *Salmonella* species in food and environmental samples. This medium aids in food safety testing by allowing rapid screening for *Salmonella* spp., a major pathogen associated with foodborne illnesses.

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

2. PRINCIPLES

BacterChrom™ Salmonella RB Agar incorporates chromogenic substrates that interact with specific enzymatic activities of target organisms, producing distinct colony colors for differentiation. This medium provides a straightforward and reliable method for the identification and isolation of *Salmonella* spp., ensuring high specificity and simplifying laboratory workflows.

3. TYPICAL COMPOSITION

For 1 liter of medium

Peptones	8,0 g
Sodium Chloride	5,0 g
Chromogenic & Selective Mix	2,7 g
Propylene glycol	5,0 g
Bacteriological agar	13,0 g

pH of the ready-to-use medium at 25°C: 7,7 ± 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.
- Streak sample onto plate and incubate at 37°C for 24 hours in aerobic condition

6. RESULTS

Qualitative reading and interpretation of the plates:

Microorganism	Typical colony appearance
<i>Salmonella</i>	red
Many coliforms	blue or violet
<i>Proteus</i> , etc.	colorless
Gram (+)	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>S. typhimurium</i> ATCC 14028	Incubate for 18 – 24 hours at 35 – 37°C	Red colonies
<i>P. mirabilis</i> ATCC 14153		Red colonies
<i>S. aureus</i> ATCC 25923		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, 2024. CHROMagar™ Technical Data Sheet: NT-EXT-006 NOTICE Rambach Agar V10.1. Available at: <https://www.chromagar.com/wp-content/uploads/2021/11/NT-EXT-006-NOTICE-Rambach-V10.1.pdf>.