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MICROBIOLOGICAL CULTURE MEDIUM

BacterPlate™ BHI Agar with Chloramphenicol

Ready-to-use medium on 90mm plates for culturing easily cultivated bacteria, yeasts, and molds.

Code: 05055



1. INTENDED USE

BacterPlate™ BHI Agar with Chloramphenicol is recommended for the cultivation of fastidious pathogenic bacteria, yeasts and moulds from clinical and non clinical samples. The packaging with semi-permeable Cellophane film helps balance the humidity of the environment during storage.

2. PRINCIPLES

BacterPlate™ BHI Agar with Chloramphenicol The medium contains brain and heart infusions that provide essential nutrients for microbial growth. Peptone and dextrose supply additional nitrogen, carbon, and energy sources. Sodium chloride maintains osmotic balance, while agar serves as the solidifying agent. The rich composition makes it ideal for the growth of a wide variety of organisms, including those that are nutritionally demanding. Chloramphenicol inhibits bacterial growth, creating favorable conditions for fungal growth.

3. TYPICAL COMPOSITION

For 1 liter of medium

Brain heart extract	17,5 g
Pancreatic digest of gelatin	10,0 g
Sodium chloride	5,0 g
Disodium phosphate	2,5 g
Glucose	2,0 g
Chloramphenicol	0,1 g
Agar	15,0 g

pH of the ready-to-use medium at 25°C: 7,4 ± 0,2

4. PREPARATION

The environmental plates are ready-to-use, no preparation required.

5. INSTRUCTIONS FOR USE

- Streak the surface of the medium with a bacterial suspension or inoculate directly from the sample. For fungal cultures, use appropriate inoculation techniques.
- Incubate at the temperature and atmospheric conditions appropriate for the organism being cultured (e.g., aerobic, anaerobic, or microaerophilic).
- Typical incubation: 35 – 37°C for 18 – 48 hours for bacteria; up to 7 days for fungal cultures.

6. RESULTS

- Observe the growth characteristics, including colony morphology, color, and size.
- Perform further biochemical or molecular tests for identification if needed.

7. QUALITY CONTROL

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

Strains	Incubation Conditions	Culture results
<i>S.aureus</i> ATCC 25923	Incubate at 35 – 37°C for 48 hours	Good growth
<i>E. coli</i> ATCC 35218		Inhibition, no growth
<i>C.albicans</i> ATCC 10231		Good growth

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

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