

BacterLab Division



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ENRICHMENT MEDIUM

BacterTube™ Tryptic Soy Broth (TSB)

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Enrichment medium for the cultivation and detection of a wide range of bacteria, yeasts and other fungi.

Code: 08008



1. INTENDED USE

BacterTube™ Tryptone Soya Broth (TSB) is a high-nutrient medium primarily used for cultivating and growing microorganisms from blood cultures, making it essential for clinical microbiological diagnostics, including bacteremia detection.

2. PRINCIPLES

The medium contains tryptone and soya peptone, providing a rich source of amino acids and long-chain peptides for microbial growth. Dextrose (Glucose) serves as the energy source, and dipotassium hydrogen phosphate acts as a buffer, while sodium chloride helps maintain osmotic balance.

3. TYPICAL COMPOSITION

For 1 liter of medium

Pancreatic Digest of Casein	17 g
Sodium Chloride	5,0 g
Papaic Digest of Soybean Meal	3,0 g
Dextrose	2,5 g
Dipotassium Phosphate	2,5 g

pH of the ready-to-use medium at 25°C: 7,3 ± 0,2

4. PREPARATION

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

5. INSTRUCTIONS FOR USE

- Heat the loop's tip until it becomes red in the flame, then lightly heat the handle of the loop, ensuring the loop is uniformly hot.
- Inoculate the medium in the test tube with the sample.
- Place the tube in the incubator under aerobic conditions at 35 – 37°C for 18 – 24 hours.

6. RESULTS

- After incubation for the required time, usually between 18 – 24 hours, observe the development of colonies based on the turbidity of the medium or the appearance of characteristic colony features.
- Identification of bacteria: To properly identify the isolated bacteria, further appropriate tests such as biochemical tests, Gram staining, or other suitable methods should be conducted.

7. QUALITY CONTROL

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

Reference strains	Incubation conditions	Expected results
<i>Bacillus spizizenii</i> ATCC 6633	35 – 37°C, 18 – 24h	Good growth
<i>Candida albicans</i> ATCC 10231		Good growth

<i>Staphylococcus aureus</i> ATCC 25923		Good growth
<i>Neisseria meningitidis</i> ATCC 13090		Good growth
<i>Bacteroides vulgatus</i> ATCC 8482		Good growth

8. STORAGE AND TRANSPORT CONDITIONS

- Storage: 2 – 8°C.
- Transportation: Ambient temperature.

9. PACKAGING

- Packaging: 50 tubes/box or as per customer request.

10. SHELF LIFE

- Expiration Date: 6 months from the manufacturing date.

11. BIBLIOGRAPHY

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