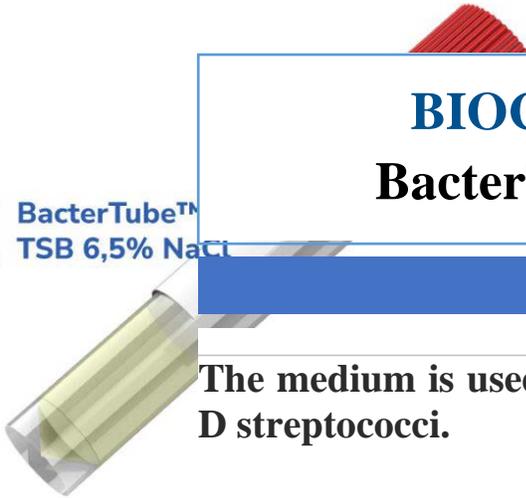


BacterLab Division



Issue date: 02/01/2025

Version: 01.2025



**BIOCHEMICAL MEDIUM**  
**BacterTube™ TSB 6,5% NaCl**

BacterTube™  
TSB 6,5% NaCl

The medium is used to differentiate enterobacteria from group D streptococci.

**Code: 08039**



## 1. INTENDED USE

**BacterTube™ TSB 6,5% NaCl** is a growth medium recommended for the differentiation of enterococci from the group D streptococci. This medium is also useful as an enrichment step for increasing sensitivity in the detection of MRSA in high risk patient.

## 2. PRINCIPLES

- Pancreatic Digest of Casein & Soybean Meal: Provide nitrogenous compounds and amino acids to support bacterial growth.
- Sodium Chloride (6.5%): Acts selectively to differentiate salt-tolerant Enterococcus species by interfering with membrane permeability and osmotic balance.
- Dextrose: Serves as a carbon source to enhance growth.
- Dipotassium Phosphate: Functions as a buffering agent to maintain pH stability.

## 3. TYPICAL COMPOSITION

*For 1 liter of medium*

Sodium Chloride	65,0 g
Pancreatic Digest of Casein	17,0 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

- Inoculate tubes lightly with suspect bacterium.
  - Using a single colony, lightly inoculate the side of the tube, just at the surface of the broth, so as not to over-inoculate the sample. Alternatively, inoculate tubes using a 0.01ml loop with a 10<sup>-1</sup> dilution of 18 – 24 hour primary cultures.
  - Swab specimens from high – risk patients may be directly inserted into the medium as in enrichment for MRSA.
- Incubate tubes aerobically with loosed caps at 35 +/- 2°C. for 18 – 24 hours.
- Examine tubes at 18 – 24 hours and 42 – 48 hours for growth (turbidity). It may be necessary to compare tubes to an uninoculated control tube to determine if growth is present. Growth may be present with or without the formation of a precipitate.

## 6. RESULTS

- Positive Reaction: Presence of turbidity indicates salt tolerance (e.g., *Enterococcus faecalis* or MRSA).
- Negative Reaction: Lack of turbidity indicates salt intolerance (e.g., group D streptococci)

## 7. QUALITY CONTROL

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

Reference strains	Incubation conditions	Expected results
<i>Enterococcus faecalis</i> ATCC 29212	18 – 24 hours, 35 – 37°C	Good growth
<i>Streptococcus bovis</i> ATCC 9809		Inhibited

## 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: 3 months from the manufacturing date.

## 11. BIBLIOGRAPHY

- Hardy Diagnostics. *Tryptic Soy Broth with 6.5% Sodium Chloride*. Retrieved from: [https://hardydiagnostics.com/media/assets/product/documents/TSBwith6\\_5NaCl.pdf](https://hardydiagnostics.com/media/assets/product/documents/TSBwith6_5NaCl.pdf)