

BacterLab Division



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## TRANSPORT MEDIUM BacterTube™ Nutrient Agar (NA)

Transport medium for cultivating easily cultured bacteria

Code: 08020

## 1. INTENDED USE

**BacterTube™ Nutrient Agar (NA)** is primarily used to culture and preserve bacterial strains that do not require complex nutrients. It is suitable for growing both Gram-positive and Gram-negative bacteria and serves as a basic medium to evaluate bacterial growth in laboratory settings. Additionally, this medium is also used for long-term storage of bacterial strains, as the slant provides a larger surface area for bacterial growth, allowing for better development than in standard agar tubes.

## 2. PRINCIPLES

**BacterTube™ Nutrient Agar (NA)** relies on basic components such as peptone, sodium chloride, and agar. These components supply the essential nutrients needed for bacterial growth. In the slant tube, this medium creates a large and stable surface, allowing bacteria to grow in their optimal form. The slanted surface helps maintain the necessary moisture for bacterial growth, while preventing the samples from drying out, ensuring ideal conditions for culturing throughout the research process..

## 3. TYPICAL COMPOSITION

*For 1 liter of medium*

Peptone	6,0 g
Beef extract	1,0 g
Yeast extract	2,0 g
Sodium chloride	50,0 g
Agar	14,0 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 by gently placing the loop's tip on the surface of the slant agar at the bottom of the tube.
- Next, streak in a zigzag pattern from the bottom of the tube to the top along the surface of the slant..
- Place the tube in the incubator under aerobic conditions at 35 – 37°C for 16 – 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>S. Typhimurium</i> ATCC 14028	35 – 37°C for 18 – 24 hours	Good growth
<i>E coli</i> ATCC 35812		
<i>S. sonnei</i> ATCC 29930		

## 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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