

## A Lab Report for Microbiology Class

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### Purpose

The purpose of this laboratory work was to learn laboratory skills through culturing procedures and studying the results of incubation. Two microorganisms (*E. coli* and *S. epidermidis*) were used for this work and were inoculated on three different media: broth, slanted agar, and agar plate by the streak-plate method. Based on the results of these inoculations, the differences in culturing the organisms were studied, and the advantages and disadvantages of each inoculation method were discussed.

### Inoculation on Broth

Inoculation on broth is the cultivation of microorganisms on non-solid surfaces. The main advantage of this microbiological method is the different concentrations of nutrients and oxygen at different levels of the depth of the beaker: this allows bacteria with different aerotolerant needs to grow. In addition, it allows for a large stock of microorganisms for the studies. In contrast, through the broth, it becomes impossible to determine the purity of the culture grown and separate the bacteria from each other qualitatively. Tryptic Soy Broth (TSB) medium was chosen for inoculation in this study: both *E. coli* and *S. epidermidis* were cultured in this broth at 37°C under constant agitation for 18-24 hours. To prepare TSB, 3 g of TSB powder is dissolved in 100 mL of distilled water while stirring on a magnetic stirrer as standard. Then, 10 mL of medium is placed in a glass test tube and autoclaved at 121°C for 15 minutes: after that, the test tubes are cooled without direct exposure to sunlight. For cultivation, the broth temperature should be equal to room temperature.

### Inoculation on Agar Slant

Inoculation on slant agar is used to establish a stock of bacteria for future studies, but its applicability is also realized for mixture differentiation. The advantages of this method are the creation of sterile conditions — by the aseptic technique — for long-term storage of microorganisms without the possibility of drying out. The key disadvantages

# Microbiology Paper Topics

**Michel Atlas**



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