

ABSTRACT

Bacterium incubator is a device that with equipped by system to hold temperature dan humidity during incubation time so the microba can growth well. Microba that has been incubated, so will formed a bacterium colony.

Bacterium colony are group from bacteriums which same grouping to be one and formed colonys. To knowing the growing a bacterium can do by counting quantity bacterium colony. Count a colony can do with metode (pour plate). To simplify counting the quantity of bacterium colony did by device commonly called Colony Counter. So the author made bacterium incubator with colony counter.

On this final tasks author just discuss about incubating bacterium. Which author facilitated setting temperature are 36⁰C, 37⁰C, and 38⁰C and setting timer are 12 hours and 24 hours. In the 36°C temperature measurement error of 1.83% is obtained on seven segment and on 37°C temperature error of 0.48% obtained in seven segments ,and the temperature of 38°C gained 1.105% error in seven segments. As for the 12-hour timer measurement error obtained 0.38% and 24-hour gained 0.16% error.

Key word: temperature, timer, and bacterium incubator