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The Effect Of Temperature On Bacteria Growth

The purpose for doing this project is to find out how fast bacteria grow at different environments by manipulating the temperatures where the bacteria is stored. My hypothesis is that the bacteria will grow the most in the specimens that remain at the room temperature. Bacteria will be sampled from canine saliva captured from my pet dog and placed into fifteen Petri dishes which are sealed immediately to prevent contamination. One Petri dish for each environment will be kept without the saliva sample as a control. Two samples and one control Petri dish will be placed in a controlled environment in the laboratory freezer, the laboratory refrigerator, at room temperature, a low temperature incubator and finally a high temperature incubator. Each of these environments will have set temperatures to induce different growth rates in the bacteria samples. Grids on the bottom of the Petri dishes will allow for precise daily growth analysis in each of the samples over the course of five days. The results of the experiment were contrary to my hypothesis with the most significant growth at the warmest temperatures.