**Conclusions**

    Based on the data we recieved from our experiment, we conclude that there is strong evidence supporting Darwin's theory of evolution, or change in a species over time. Our data support the theory of "natural selection," or the idea that the strongest of a species will be the ones to survive under adverse environmental conditions, like those that involve the bottleneck effect. We were also able to determine that Neosporin is definitely a viable antibiotic, and does well attacking bacteria.

    Our experiment brings up an issue that is of great importance in today's health care field. Patients that are sick with a bacterial infection are often given antibiotics to fight the infection. Often, the antibiotic is taken regularly, and begins to have less of an effect over time. This is because of the same reason the bacteria in our experiment was able to grow more in the later generations- as the stronger bacteria survive, they are the ones that reproduce. This leads to the development of a population that is much more resistant to the environmental elements than the original population. As the bacteria in the patients' bodies grows stronger, the antibiotic can no longer suppress the bacterial growth. This leads to greater medical problems, as it becomes very difficult or even impossible to remove this very "strong" bacteria that was produced by natural selection. **(EVOLUTION).**

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*This page last updated 4/23/98*