Name(s)	Project Number
Isaac A. Felix	**J1108**

Project Title

Green Cleans

Abstract

Objectives/Goals

Does environmental soap have a harmful effect on brine shrimp?
Regular soap will have a more harmful effect on the brine shrimp compared to the ecological brands.
First, I prepared a spring water and non-iodized salt solution. Then I added a half-teaspoon of brine shrimp eggs to the salt water and let them hatch for 24 hours. After they hatched, I placed 3mL of brine shrimp in 5 different Petri dishes. Then, I added the solutions to the brine shrimp. Then I let them sit in a table for 48 hours. After 48 hours, I recorded my data.
After analyzing my data, it turned out that the regular and one of the environmental soaps actually killed the brine shrimp. The other environmental brand didn#t affect the shrimp.
My results partially supported my hypothesis; it turned out that Simple Green# actually killed the brine shrimp.
If I were to repeat my experiment I would test detergents and shampoos.

Methods/Materials

Petri dishes (15), 1 pipette (10 mL), magnifying lens.
Regular dish soaps: Palmolive (green one) = Brand S-P, Pine Sol = Brand P.
Eco friendly dish soaps: Seventh Generation = Brand G, Simple green = Brand S.
Brine shrimp (20-30 oz. or a bag), Beaker (500-1000mL), Non-Iodized Salt, Spring mountain water, Bubbler, Lamp, Regular tap water.

Results

My results partially supported my hypothesis. I hypothesized that the normal brands would impact the shrimp. This part of my hypothesis was true, for the average number of shrimp dead for the regular brands were: Palm Olive# 64 and Pine-Sol# 59. But, Simple Green# turns out to kill an average of 62 shrimp. On the other hand, 7th Generation# only killed 2 shrimp and in the control brand only 1 shrimp died. I think my hypothesis came out partially right because I assumed that the environmental brands were eco-friendly.

Conclusions/Discussion

In conclusion,my results partially supported my hypothesis. I hypothesized that the normal brands would impact the shrimp. This part of my hypothesis was true, for the average number of shrimp dead for the regular brands were: Palm Olive# 64 and Pine-Sol# 59. But, Simple Green# turns out to kill an average of 62 shrimp. On the other hand, 7th Generation# only killed 2 shrimp and in the control brand only 1 shrimp died. I think my hypothesis came out partially right because I assumed that the environmental brands were

Summary Statement

My project is about the secondary effects that soaps have on the oceans.

Help Received

Ms.Arstill helped me receive my materials.