

ISEF Sample Abstract & Certification

Strawberries or Moldberries: The Effect of Aloe Juice and a Vinegar Solution on Mold Prevention of Strawberries.

Ella Smith

Greenwich Central School, Greenwich, NY, USA

Many households are regularly throwing out fruit because of mold growing. People aren't aware of how to stop this problem from happening. Previous studies have shown that aloe juice does prevent mold on strawberries compared to water. The objective of this study was to determine if aloe juice, water, water and vinegar solution, or no water prevents mold growth the longest on strawberries. My hypothesis was that if strawberries are rinsed in aloe juice, then they will not grow mold as quickly as the strawberries that are rinsed in a vinegar solution, plain water, or completely unrinsed. This was researched by keeping 6 strawberries in each container. 3 containers with no water. 3 containers will have water. 3 containers will have aloe juice. And 3 containers will have vinegar and a water solution. This will see how many days the substances can prevent mold. Preliminary data suggests that aloe juice prevents the growth of mold, growth of brown leaves, and having dark red strawberries. My data shows that the no water and aloe juice washes did not work the best for prevention of mold growth. Both no water and aloe juice were able to prevent mold for 25 days out of a 40 day experiment. The vinegar and water solution and the water were able to prevent mold longer than the other substances. Vinegar and water solution and water washes were able to prevent mold for 30 days out of the 40 day experiment time.

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