

Chemical Chronicles

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Problem: Which hand cleaning device including hand sanitizer, soap and water, and wipes removes the most bacteria.

Background: Sneezing into your sleeve contains germ. Fatigue can lead to sickness. Public crowded areas are full of sickness. Eating unhealthy items can make you sick. Cleaning yourself can keep you healthy. So can not touching your face or putting your hands in your mouth. Mold in houses or on food can make you sick. Contact with animals can make you sick. To stay healthy wash your food before you eat it and clean furniture used often.

Hypothesis: If Wiley's hand is swabbed and then the swab is wiped on three petri dishes then the petri dishes are wiped with the three cleaning solutions, then the purell will have the least amount of bacteria because it says it removes 99.9 percent of germs.

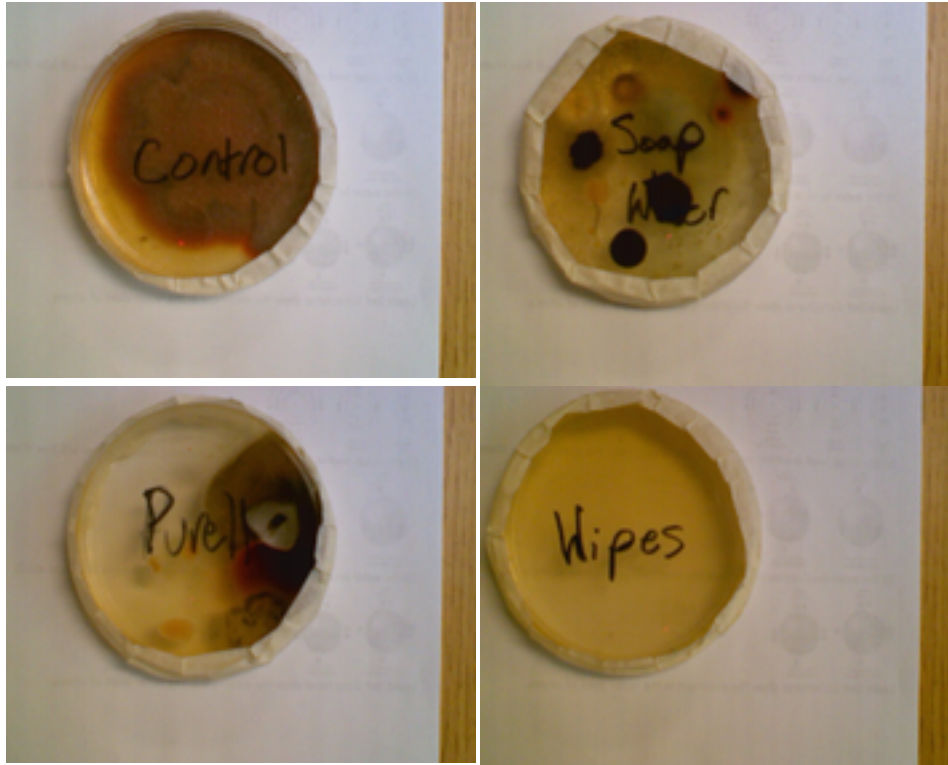
Materials:

1. 4 petri dishes
2. Auger
3. 4 cotton swabs
4. 1 clorox wipes
5. 1 drop of disinfectant
6. 1 drop of soap and water

Procedure:

1. Wipe hands with cotton swab.
2. Wipe the Auger with cotton swab.
3. Put the cleaning supplies on slides.
4. Label Slides.
5. Tape slide.
6. Observe.

Results:



Conclusion: Our hypothesis was not supported because all of the dishes had a lot of bacteria growth except for the wipes. This was shown because the wipts had no growth. The independent variable was the type of disinfectant used. The dependent variable was the amount of bacteria in the petri dishes. The possible source of error was that some dishes might have not been as thoroughly swabbed as others. No improvements for next time because the experiment worked very well and had results very easy to understand.