

GFS BioProtect

[GFS BioProtect](#) is one of the few hand sanitizers that has actually been tested and shown to kill a norovirus surrogate. It killed 99% of murine norovirus. It is also the ONLY hand sanitizer that I'm aware of that works against a norovirus surrogate AND does not contain alcohol, and therefore, doesn't sting hands. You all know that I love my Zylast antiseptic but in the winter my hands are cracked and bleeding. I often simply don't use my hand sanitizer at all because it hurts too bad. I was excited about testing this non-stinging option. The BioProtect also smells really good.



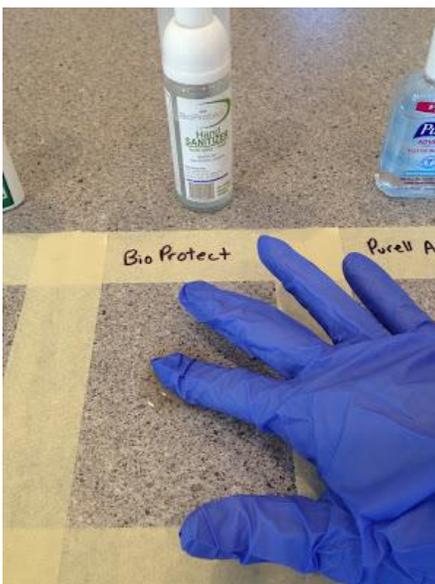
In this experiment, I compared BioProtect to Zylast, 3% hydrogen peroxide, and Purell Advanced on my countertop. I did the experiment like I always do.



I made germ water with dirt from the back yard and extra bacteria from a previous days agar plate.

I put 1mL of germ water onto each square.

I rubbed the germ water around with my gloved hand and let it completely dry which took about 2 hours.



I used a sterile swab to rub on the dirty control square.



I rubbed each swab onto its respective agar plate.



Then I added .5 mL of each product (Zylast, hydrogen peroxide, and Purell Advanced) to its respective square and rubbed it in with my clean gloved hand. I let it sit for 1 minute and then swabbed each square and rubbed the swabs onto agar plates. Since the BioProtect is a foam, I could not accurately measure it. Instead, I used 4 pumps of the BioProtect and rubbed that around the square.





The plates were incubated overnight in my warm incubator.



As you can see, the BioProtect did a great job killing bacteria on the countertop just like Zylast and 3% hydrogen peroxide. As usual, Purell Advanced does not do a very good job.

How well does BioProtect work on actual kid's hands?

For these experiments, I had my kids and some neighbor kids go out and play and get their hands dirty. All hands had a lot of actual dirt on them.



Then they rubbed one dirty hand onto an agar plate.



I put 4 pumps of BioProtect on the other hand, rubbed it in, and let it dry for 1 minute. Then the child rubbed their sanitized hand onto another agar plate.

The plates were incubated overnight in my warm incubator. As you can see, the BioProtect did a great job killing bacteria even on these filthy hands.





As you can see, BioProtect does a great job killing bacteria in my experiments. BioProtect is also one of the few hand sanitizers that has been shown to kill a norovirus surrogate. But it is the ONLY one that I have found that is effective against norovirus and does not contain alcohol. Yes, Zylast antiseptic has been my favorite for a few years now. However, this winter my hands have been cracked and bleeding, and I simply can't use my Zylast, and I will be carrying BioProtect with me.

BioProtect also advertises that it "continues to work" for a few hours after being applied. I am currently working on those experiments, even though I've never managed to show that any hand sanitizer actually continues to work like they say. I would always recommend hand washing or reapplying hand sanitizer right before you eat if at all possible.