

the effect of ozon water vs topical disinfectant on bacteria

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Ozone water is normal water but you take a bubbler and ozonate it which completely sterilizes the water. I believe this because ozone is a well known sterilization implement. I also believe this because ozone oxidizes cells and destroys their cell walls causing cellular rupture. My hypothesis is that if I take ozone treated water and topical disinfectant then ozone would kill the most bacteria. I tested this by ozonating water, then I took my disinfectant and the ozone water and put them inside of a beaker. Then I took 3 sterile disks and soaked them in each liquid. Then I removed those 3 disks out of the ozonated water and disinfectant and placed each of them in a petri dish full of K-12 e coli. After every 5 days I take the E coli out of the incubator and measure the diameter of the zone of inhibition for both the ozonated water and the disinfectant and after 15 days I took the final measurement. The conclusion I have come to states that ozone's zone of inhibition is 0.0 mm and does not do anything to kill or repel the bacteria and the topical disinfectant worked a lot better with the average zone of inhibition being 11.9mm.

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 - human participants potentially hazardous biological agents
 - vertebrate animals microorganisms rDNA tissue

2. This abstract describes only procedures performed by me/us, reflects my/our own independent research, and represents one year's work only.
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