An Antibacterial and Antifungal Comparison of Countertop Disinfectant

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PURPOSE: To determine which countertop disinfectant works best against different microorganisms. PROCEDURE: (Kirby Bauer) 1. Sectioned desired agar plates into plates into four sections 2. Applied the bacteria or mold 3. Saturated a sterile disk 4. Placed saturated disk on corresponding number on the agar plate 5. Repeat with all eleven products 6. Incubate for 24 hours at 37 degrees Celsius 7. Measured inhibition zones (Colonization) 1. Sectioned off each countertop sample 2. Marked all plates for their countertop 3. Place countertops in a hood 4. Made a Staphylococcus epidermidis stock solution 5. Applied the stock solution to the sections of countertop 6. Applied the disinfectant to the corresponding number on the sample 7. Swabbed countertop at each interval of time and applied to nutrient agar plates 8. Incubate plates for 24 hours at 37 degrees Celsius 9. Count colonies RESULTS: Product number ten had the best results in Colonization, my results showed that no single countertop did the best, it showed that the type of countertop you have doesn't matter as much as the cleaner and how periodically you clean them. In Kirby Bauer product number ten overall had the lowest inhibition zones.

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