

CWSF 2015 - Fredericton, New Brunswick



Natasha Burgert

Can deactivated no-rinse disinfectant regain microbial toxicity in a low pH?

Challenge: Health

Category: Junior

Region: South Fraser

City: White Rock, BC

School: Semiahmoo Secondary

Abstract: I discovered that the non-rinse disinfectant, Star San, is deactivated when put into a higher pH environment, but reactivated when put in an environment of a lower pH. This shows that the no-rinse sanitizers used in food and drink processing and packaging are not neutralized, and therefore may be harmful to the human digestive system.

Biography

I live in White Rock, BC, and attend Semiahmoo Secondary, as a grade 8 student. I am involved in Track and Field, and enjoy writing and piano. My science fair project, "Testing a Gut Feeling" was inspired by my concern for several people close to my family, who have been diagnosed with colitis. In future Science Fairs, I hope to explore fields of science I have not yet investigated, such as engineering. This will give me a chance to be more aware of the other scientific communities around me. To future students participating in Regional Science Fairs, I suggest they do an experiment, following the proper Scientific Method. In post secondary education I hope to study in the medical field, and eventually push society forward with new discoveries.