



**CALIFORNIA STATE SCIENCE FAIR
2007 PROJECT SUMMARY**

Name(s) Argenis O. Ruvalcaba	Project Number S1418
Project Title Preventing E. coli Contamination	
Abstract Objectives/Goals My goal or objective is to demonstrate how E.coli bacteria is affected through the use of anti-bacterial cleaners and detergents. I expect to find the potency of each solution. Methods/Materials In this experimentation, there were various tasks that were completed. I have been organizing my experiment in various increments. The first part, or phase, of my experiment was to examine bacterial growth of E.coli, on nutrient rich Petri dishes. This first part of the experimentation showed the bacterial growth upon the presence of the antibacterial cleaners and detergents of 10%, 15%, 20%, 25%, and 100% dilutions. The second phase demonstrated the effectiveness of the antibacterial cleaners and detergent measuring the Zone of Inhibitions. Results The results demonstrate that the use of antibacterial cleaners and detergents such as Purell Hand Sanitizer, do dramatically eliminate E.coli bacteria. Conclusions/Discussion To conclude my experiment I would like to say that this experiment was in dedication for all those who died due to E.coli contamination. I have learned based on my data and experiences that washing our hands and being sanitary can make drastic changes upon our lives.	
Summary Statement My experiment is based on the prevention of E.coli bacteria contamination through the use of antibacterial cleaners and detergents.	
Help Received My biology teacher, Mrs. Schramm helped me with questions I had about this particular subject.	