

CALIFORNIA STATE SCIENCE FAIR 2006 PROJECT SUMMARY

Name(s)	Project Number
Kiana M. Strub	J1332
roject Title Bacillus cereus + Essential Oils = ???	
Dacinus cereus + Essentiar Ons –	
Objectives/Goals Abstract	
The purpose of this project is to determine the effectiveness essential oils on the growth of the bacteria, Bacillus Cereus. Methods/Materials 40 petri dishes were placed into groups of 5. lst group: one d nutrient agar, 2 drops added/mixed to each of 2nd group, 3 d	rop of first essential oil added/mixed into rops added/mixed into 3rd group, 4th group:
no essential oil added (controlled variable). Repeated using s with Bacillus Cereus spores and incubated 56 hrs at 33 degree	
Results Thyme oil (2nd essential oil) resisted the growth of the bacter Peppermint oil (1st essential oil) could only inhibit the growt Conclusions/Discussion	ria with only one drop, whereas the
My hypothesis was correct. I concluded that the Thyme oil h but at the highest concentration, Peppermint oil inhibited the	
Summary Statement	
My project is designed to test the effectiveness of different c the growth of Bacillus Cereus.	oncentration levels of select essential oils on
Help Received	
Mother helped find reference books and supervised my expe books; B. Peterson loaned lab equipment to me.	riment.; D. Cornelius helped find reference