



**CALIFORNIA STATE SCIENCE FAIR
2012 PROJECT SUMMARY**

Name(s) Jenna B. Deutschman	Project Number J1699
Project Title Poison Agar, Dying Germs	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals The point of this experiment was to learn about ways to kill bacteria using aluminum potassium sulphate and monoammonium phosphate.</p> <p>Methods/Materials An incubator was built so that there could be a warm place to grow bacteria in Petri dishes. Next, Bacto agar was poured into seven Petri dishes. Bacteria was then abstracted from a kitchen sponge and placed in one of the Petri dishes, this was the control. Next, monoammonium phosphate was placed in three Petri dishes and aluminum potassium sulfate was placed in the remaining three Petri dishes. Bacteria was then taken from the control and placed into the six Petri dishes. Observations were recorded daily.</p> <p>Results The result of the experiment showed that aluminum potassium sulfate kills the bacteria and monammonium phosphate slows the bacteria's growth.</p> <p>Conclusions/Discussion My hypothesis was correct because the aluminum potassium sulfate does in fact kill the bacteria. Monoammonium phosphate slows the growth of bacteria. The control had more than twice the amount of bacteria clusters than the Petri dishes containing monoammonium phosphate. The Petri dishes containing aluminum potassium sulfate had no clusters of bacteria from begining to end.</p>	
Summary Statement During this lab, I grew bacteria and then killed it using aluminum potassium sulfate and slowed the growth with monoammonium phosphate.	
Help Received Mom helped mount display board.	