

CALIFORNIA STATE SCIENCE FAIR 2009 PROJECT SUMMARY

Name(s)	Project Number
Joseph S. Stearns	S0521
Project Title	
Electrophoresis	
Abstract	
Objectives/Goals The objective is to determine what the relationship is between molecule size and pigment of food coloring	
dyes. Methods/Materials An electrophoresis chamber was constructed, and an agarose- process. Five dye samples were placed in the chamber and se determine the relationship between molecule size and pigmen	parated through electrophoresis in order to
Results The orange dye was found to have the smallest molecules, fol dye order held true throughout the two hour electrophoresis pr Conclusions/Discussion	
The results of my experiment indicate that under certain conditions the dye pigment of lightest color has the smallest molecules. Further testing is needed to determine if this theory holds true under other circumstances.	
Summary Statement	
It was shown, using electrophoresis, that dye samples of light samples of darker color under certain conditions.	er color have smaller molecules than dye
Help Received	
My mother was the photographer for this project, who took and formatted all the pictures of the experiment.	