CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY

Name(s)
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Project Number
S0518

Project Title
Cry1AB in Corn

Abstract

Objectives/Goals
To find out if Cry1AB can be found in different corn samples. Also to see how strongly it can be detected.

Methods/Materials
#1- You go get different corn samples, blend them up separatly in a food processor, and add the correct buffer volume which is at a 1g to 1L ratio. Then you stir it up, put it in a testing cup, and put a test strip in.
#2- Take the positive control (Caterpillar Killer) and dilute it with a 1-10, 1-100, and 1-1000. Put them into the testing cups and put a test strip in.

Results
Negative- Stater Bros.(yellow), Stater Bros.(white), Baby Corn, Suplantation, Vons(white), Birds Eye(frozen), Organic corn(frozen), Arrowhead Cornmeal,
Mother#s cornmeal.
Positive- Alber#s cornmeal, Caterpillar Killer(positive control)
1-10 (very strong line) 1-100 (pretty strong line) 1-1000 (light line)

Conclusions/Discussion
Well after I had seven negative corn results I thought something might be wrong. So, I went and got Caterpillar Killer which contain 1.76% Bt protein as a positive control. That tested positive so I knew that there wasn#t something wrong with the kit. Then Alber#s cornmeal tested positive, but to make sure that it wasn#t just something weird in cornmeal that made the red line I had to find a negative control. I went to Mother#s Market and got Arrowhead and Mother#s cornmeal. They both tested negative so I knew that Alber#s was really positive.

Summary Statement
I wanted to see if any of the corn I eat could contain this genetically engineered protein.

Help Received
UCI/CMHS Science Fair Grant