CALIFORNIA STATE SCIENCE FAIR
2010 PROJECT SUMMARY

Name(s)
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Project Number
J0404

Project Title
One "Sweet" Yeast Experiment

Abstract

Objectives/Goals
My objective was to determine which artificial sweetener or natural sugar caused the yeast to produce the most carbon dioxide.

Methods/Materials
I set-up a large bowl of water with a graduated cylinder placed upside down inside the bowl. I then ran a tube from the graduated cylinder into a bottle containing the type of artificial sugar or natural sugar I was using. There was also yeast and water in the bottle that was connected to the tube. Bubbles went down through the tube and into the graduated cylinder where I could determine how much carbon dioxide the yeast produced.

Results
My results were that the normal granulated sugar caused yeast to produce the most carbon dioxide, on average, at 330ml. Normal yeast and water produced the least carbon dioxide, on average, at 7ml.

Conclusions/Discussion
My conclusion is that normal granulated sugar caused yeast to produce the most carbon dioxide, on average(330ml), but brown sugar was close behind it at 325ml, on average.

Summary Statement
My project is about which artificial sweetener or natural sugar causes yeast to produce the most CO(2).

Help Received
Parents helped with set-up of experiments.