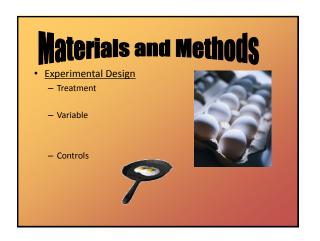


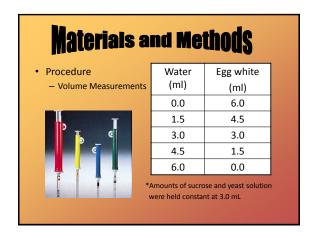
Background / Reasoning

- Egg white is believed to be a home remedy for yeast infections
- Known for having some antimicrobial properties
- We propose that egg white may inhibit alcoholic fermentation by baker's yeast

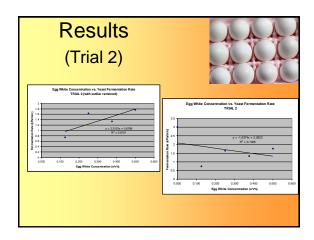


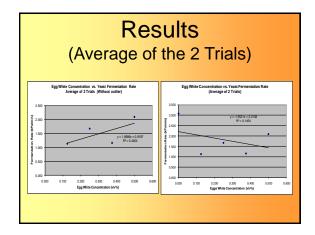
Question/Hypothesis • Questions - How does the addition of egg white affect the rate of fermentation? - If egg white decreases the rate of fermentation then what is the minimum conc. needed to stop alcoholic fermentation? • Hypothesis - If egg white is added to yeast then the rate of fermentation will decrease.

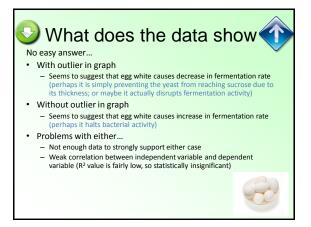










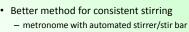


What can be Concluded?

- · We cannot decisively conclude that egg white concentration increases or decreases yeast fermentation rate with certainty
- More data needs to be collected to determine there's a cause-and-effect relationship



Improvements?



- Better equipment for consistent heating
- Increase the total volume of the solution to better assess if there's a observable trend between egg white conc. and fermentation
- Measure the pH of the solution (perhaps egg white's pH is a variable)

Future Investigations?

- Isolating the various components of egg white and testing their individual effects on yeast fermentation rate
- Testing and comparing the effects of various lysozymes on yeast fermentation rate
- Testing the effects of lysozyme on fermentation rate of various yeast species
- Testing the effects of egg whites from different animals on yeast fermentation rate

References

- Lysozymes: Model Enzymes in Biochemistry & Biology
- American Society for Microbiology
- The Journal of Biological Chemistry
- Incredible! Eggcyclopedia
- Wine Business Monthly
- Brew Your Own
- Wikipedia

