

Overview of complete experiment

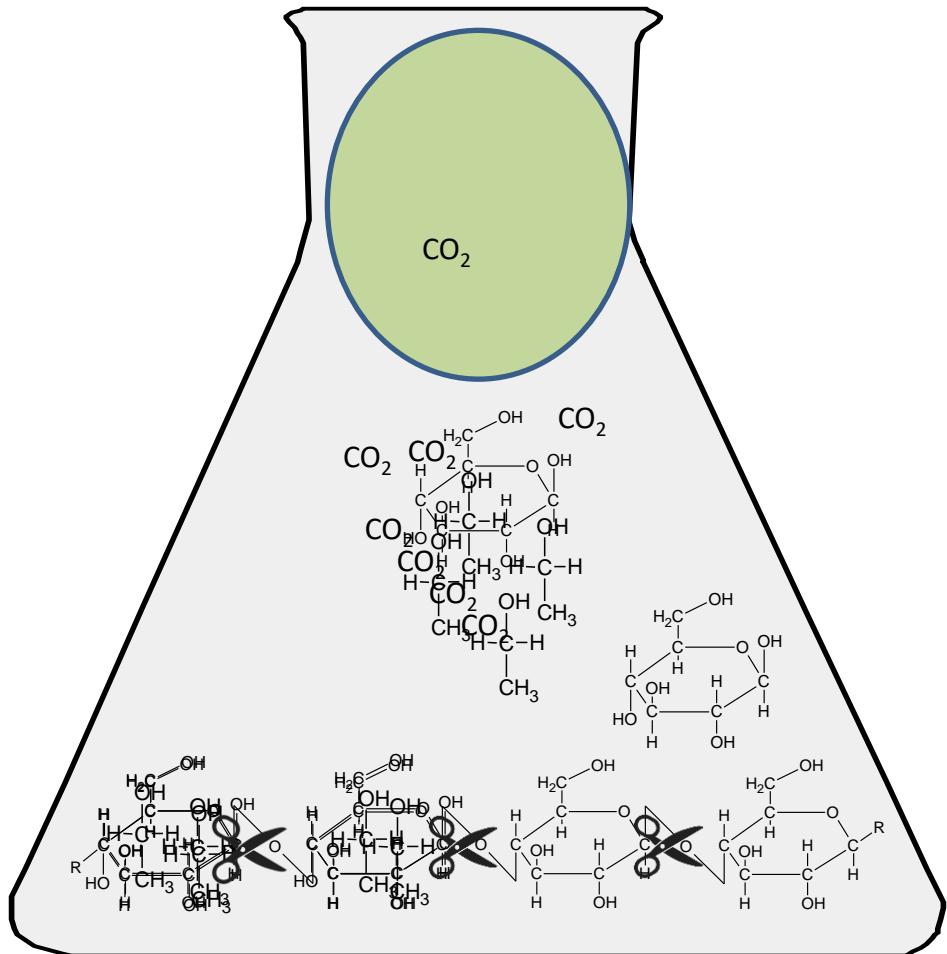
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Overview Bioethanol-Production



1. Step: Biotransformation

- starting products include cellulose or starch
- using enzymes from dietary supplements or salvia
- Glucose concentration increases
- Austrian students use photometric for measuring of glucose concentration
- Indian students testify the glucose concentration by using test stripes

2. Step: Fermentation

- glucose will be metabolized by yeast to ethanol through the process of fermentation
- measurement of glucose concentration (decreasing)

3. Step: Distillation of ethanol

- only made by Austrian students
- taking fermented ethanol and water mixture and adding heat for separating



4. Step - Electrification

- fuell cell with max 20% of ethanol supplement
- distillate has to be diluted with water
- demonstration by motor

