

Laboratory Report Template

Name: ___Cade Myers_____

Title

Project 1.2.4 Nutrient investigation

Problem

The nutrient content of peanut butter

Hypothesis

I predict there will be fats, carbs, and proteins

Materials

- Test tubes
- Biuret reagent
- Benedicts solution
- Iodine solution
- Brown paper bag
- Distilled water
- Test tube tongs
- Plastic pipettes
- Marking pencil
- computer

Procedures

1. Brown paper bag test

1. Get a brown paper bag
2. Place a drop of each sample on the correctly labeled space
3. Observe and record

2. Iodine

1. Add a pea size amount of peanut butter to correctly label the test tube
2. Add one drop of iodine solution to the test tube and observe color changes in the test tube
3. Record your observations in your lab notebook

4. Benedict's solution

1. Using a marking pencil label six test tubes with the following information
2. Name of sample- one test tube
3. Name of indicator –Benedicts
4. Initials of lab partner
5. Add 3ml of sample to correctly label test tube
6. Add 5ml of benedicts solution to the test tube
7. Place test tube in water
8. Cook the test tube in water for 3 minutes
9. Observe changes as they occur and recorded in you lab notebook
10. Remove the test tube with tongs
11. Record color changes and any other observations in you lab notebook

5. Biuret reagent

1. Label the test tubes with the following information
2. Name of sample
3. Name of indicator
4. Initials of lab partner
5. Add 3ml of the sample to the test tube
6. Add 3ml of distilled water to the test tube
7. Add 5ml drops of biuret reagent to the test tube and observe
8. Record all observations

5.2 6 Dichloroindophenol

1. Using a marker, label a test tube with the information
2. Name of sample'
3. Name of indicator
4. Initials of lab partner
5. Add 1ml of 2.6 D
6. Collect 1ml of sample solution
7. Add one drop of solution at a time

Data Collection

Brown bag	Has greasy stains around peanut butter
iodine	Turned much darker with solution
Benedicts	Turned slight green color
Biuret	Turned light purple
2.6 D	Turned colorless

Analysis of Results

When the peanut butter was put in the solutions, they all reacted different. It was greasy on the brown paper bag, it turned dark purple or black with the iodine, turned slight purple color with the biuret, it was colorless with the 2,6 solution.

Conclusions

The peanut butter reacted to all the solutions which means it had all the nutrients it was supposed to give off. It was very fatty because of the greasiness it left on the paper towel. It had vitamins because it reacted with the 2.6 dichloroindophenol and was colorless besides a brownish color because of the peanut butter. It had proteins in it because it turned light purple. It had both kind of carbs in it, it was simple and complex because it reacted to both iodine and benedicts solution.