

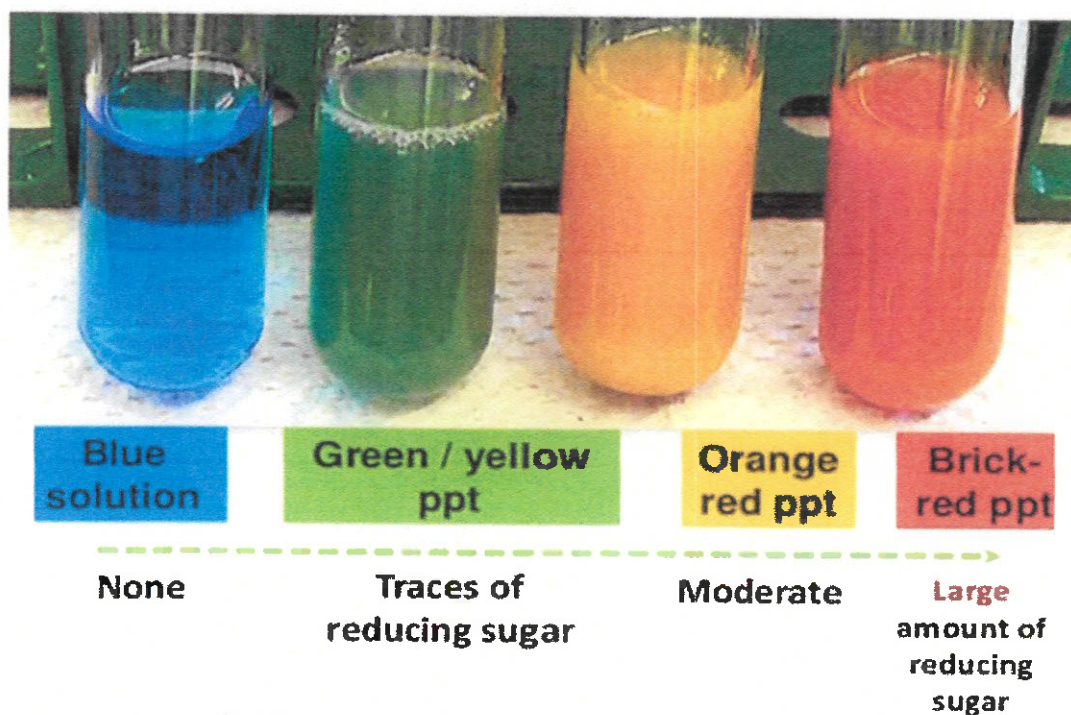
PROCEDURE 6.1 – BENEDICT Test for Reducing Sugar

1. Label 8 test tubes with numbers 1 -8
2. To each tube add **10 drops** of materials to be tested according to the table below
3. Add **2ml of Benedict's** reagent and gently mix

TUBE	SOLUTION
1	onion juice
2	potato juice
3	sucrose solution
4	glucose solution
5	distilled water
6	reducing-sugar solution
7	starch solution
8	Unknown solution

4. Place all tubes in a gently boiling water-bath for **3mn** and observe color change
5. Use a test-tube holder to remove tubes from water-bath
6. Record the color results on **Table 6.1** of your lab manual
7. Answer **Questions 1 and 2** in your lab manual.

RESULTS



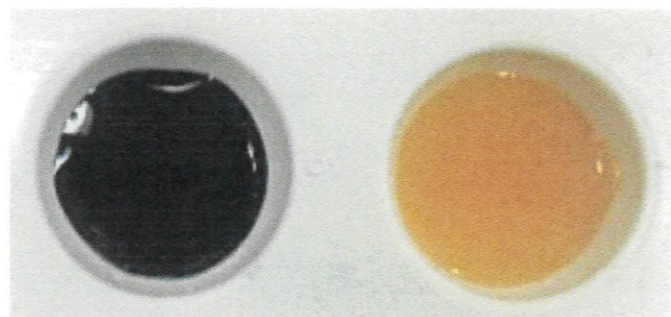
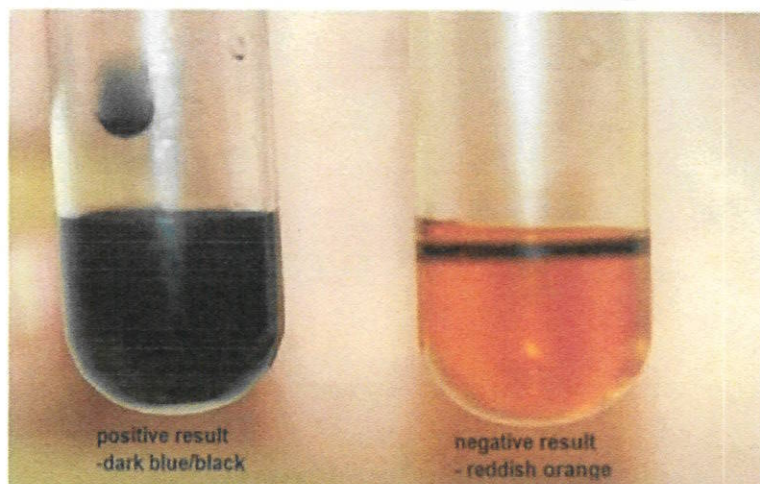
PROCEDURE 6.2 – IODINE Test for Starch

1. Label 8 test tubes with numbers 1 -8 (or use a spot plate)
2. To each tube add **10 drops** of materials to be tested according to the table below

TUBE	SOLUTION
1	onion juice
2	potato juice
3	sucrose solution
4	glucose solution
5	distilled water
6	reducing-sugar solution
7	starch solution
8	unknown solution

3. Add **1-2 drops of Iodine Solution** to each tube (or well)
4. Record the color results on **Table 6.1** of your lab manual
5. Answer **Question 3** of your lab manual

RESULTS



Positive Iodine Test

Negative Iodine Test

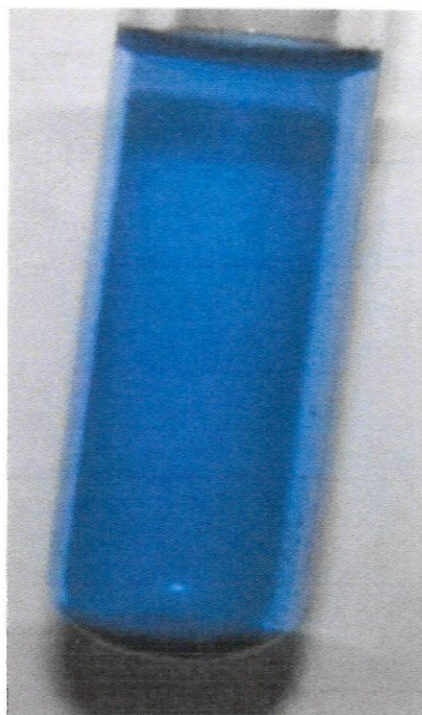
PROCEDURE 6.3 – BIURET Test for Protein

1. Label 6 test tubes with numbers 1 -6
2. To each tube add **2ml** of materials to be tested according to the table below:

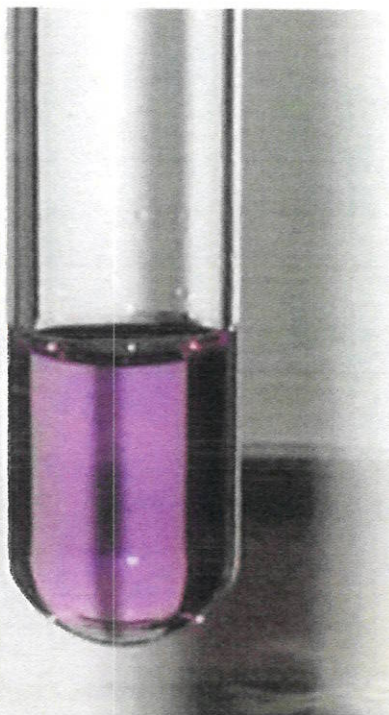
TUBE	SOLUTION
1	egg albumen
2	honey
3	amino acid solution
4	distilled water
5	protein solution
6	unknown solution

3. Add **5 drops of Biuret Reagent** to each tube and mix
4. Record the color results on **Table 6.2** of your lab manual
5. Answer **Question 4 and 5** of your lab manual

RESULTS



**negative biuret
test results**



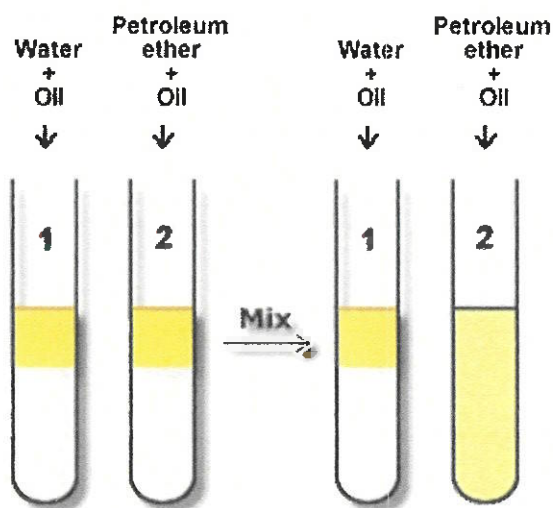
**positive biuret
test results**

PROCEDURE 6.4 – SOLUBILITY of Lipids

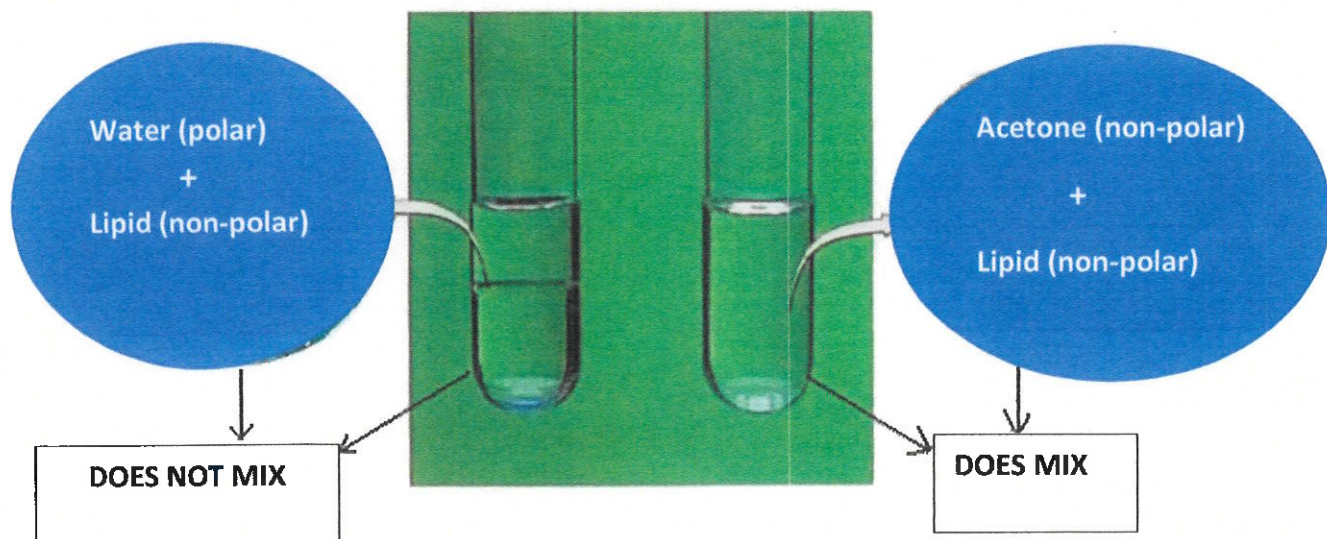
1. Label 3 test tubes with numbers 1, 2, and 3
2. To each tube add **5ml of materials** to be tested according to the table below:

TUBE	SOLUTION
1	water
2	acetone
3	unknown

3. Add **5 drops of vegetable oil** to each test tube and mix
4. Answer **Questions 6 and 7** of your lab manual



RESULTS

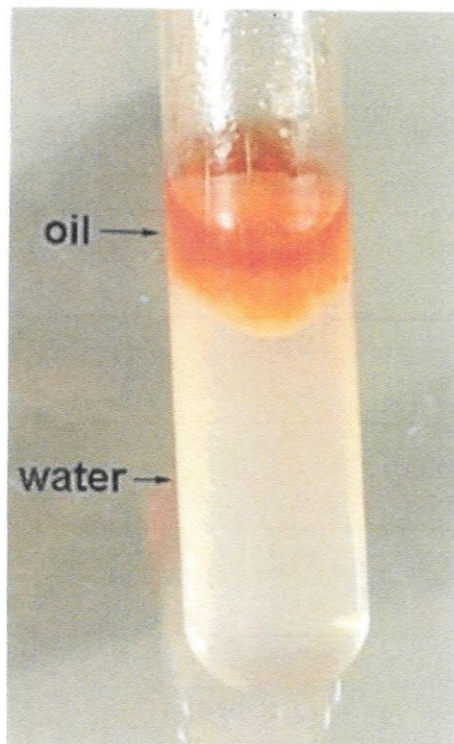


PROCEDURE 6.5 – SUDAN IV for Lipids

1. Label **6 test tubes** with numbers 1 -6
2. To each tube add **1ml of materials** to be tested according to the table below:

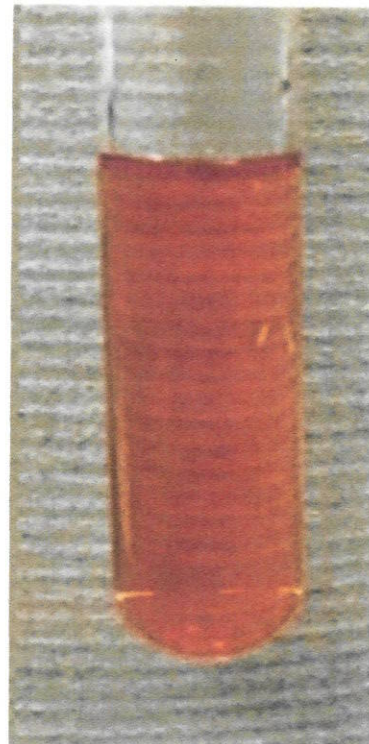
TUBE	SOLUTION
1	salad oil
2	salad oil
3	honey
4	distilled water
5	lipid solution
6	unknown

3. Add **5 drops of water** to tube 1
4. Add **5 drops of Sudan IV** to tubes 2, 3, 4, 5 and 6
5. Record the color of the tube contents in **Table 6. 3** of your lab manual
6. Answer **Question 8** of your lab manual



positive result

- 2 layers
- top layer is orange-red



negative result

- one layer
- color is evenly distributed

PROCEDURE 6.6 – GREASE-SPOT Test for Lipids

1. Obtain a piece of brown paper bag and label 3 columns **water**, **oil** and **unknown**
2. Use a transfer pipette to add a drop of each material
3. Let the fluids evaporate
4. Look at the paper as you hold it up to a light.
5. Record your results in **Table 6.4** of your lab manual
6. Answer **Questions 9** of your lab manual

Water	Oil	Unknown

