



## MEMORANDUM FOOD TESTING

The nutrients in the food you eat supply your body with energy for growth and repair. These nutrients include carbohydrates, proteins, fats, minerals and vitamins. The presence of these nutrients in food can be tested by using **chemical indicators /reagents** that react in predictable ways. A **colour change** of an indicator is usually a **positive test** for the presence of a certain nutrient. In this practical, you will use several indicators to test for the presence of nutrients in solutions.

### INSTRUCTIONS:

- You will perform **FOUR different tests** on **TWO experimental samples**.
- Each test will use a different **indicator reagent** that will change colour in the presence of the particular organic compound that is being tested for.
- As part of the experimental method, you must include **control samples** to insure the validity of your results.

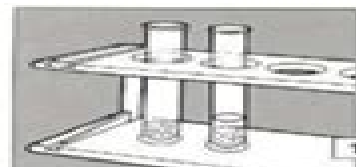
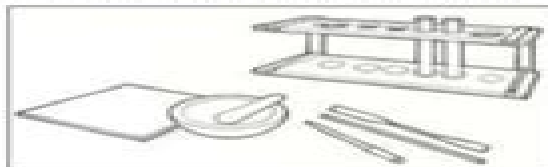
A **negative control** will result in no change in colour. It will either contain no sample at all or it will contain a nonreactive sample like water.

A **positive control** will result in a colour change indicating the presence of the compound you are testing for.

- **Answer the questions** each time the food test has been completed in the appropriate spaces

### Food Test 1: Starch

1. Take small amounts of the unknown food sample or 10 drops of aqueous solution of the sample in a test tube.
2. Add 3–4 drops of test indicator.



- 1.1. Predict which nutrient is present in your unknown food samples above.

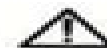
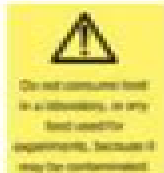
**Starch✓**

(1)

- 1.2. Give the name of the chemical reagent used in this food test.

**Iodine✓**

(1)



Iodine solution should be handled with care. Take care to avoid unpleasant staining of hands and materials.



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