Lugol’s Iodine

• Place a sample of the food in distilled water in a test tube.

• Add 3 drops of Lugol’s iodine in each test tube. Agitate sample and mix thoroughly.

• Observe color change
  – If starch is present, blue-black precipitate will form
Biuret Solution

• Add 40 drops of the test liquid
• Add 3 drops of Biuret reagent solutions to each test tube.
• Shake gently to mix
• Note color change
Sudan III stain

• In test tube add equal parts pf test liquid and water to the tube is half filled
• Add 3 drops of Sudan III stain to each test tube and shake gently to mix
• A red-stained oil layer will separate out and float on the water surface if fat is present.
Benedict’s Solution

• Add 40 drops of liquid to be tested
• Add 10 drops of Benedict’s solution into each test tube
• Carefully heat the test tubes by suspending in a hot water bath for 5 minutes
• Note any color change
Benedict’s Solution

none

low

high