

Name:	Date:
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## Experiment: Carbohydrates in Food Evidence of starch

### Equipment

Culture dish, kitchen knife, test tubes, test tube rack

### Materials

Various food products: potato starch, flour, potatoes, sugar, table salt, bread, apple, banana, cheese, oil, etc

Reagents: iodine solution in dropping bottle ( $I_2 \cdot KI$  solution in water)

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### Safety and disposal guidelines

#### For all experiments:

Do not eat or drink during the experiments. After finishing the experiments, put used gloves into the waste and always wash your hands thoroughly.

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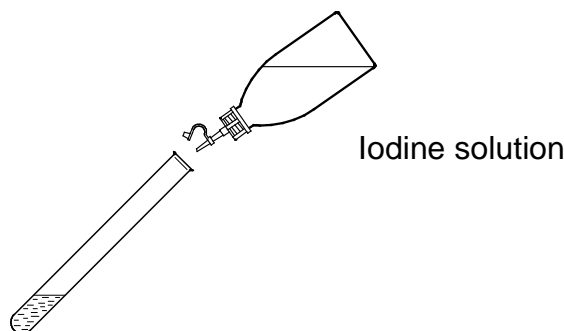
### Starch in everyday life

When you are really hungry you know that a large dish of pasta will eliminate your hunger quickly. The reason for this is that pasta contains carbohydrates in the form of starch. Carbohydrates are among the most important nutrients for the human body. In the following experiment, you will learn how to detect starch in food.

### Experiment

In order to become familiar with how to detect this substance, start with a comparative sample.

#### 1. Comparative sample: Detection of starch



- Pour some potato starch and water into a test tube and shake the starch to dissolve it.
- Add a few drops of iodine solution.
- Observe closely what happens.

