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## Product Technical Fact Sheet

Product Code(s): GLU (plastic backed test pads), 170/172 (test papers)

Product Description: Glucose Test Strips and Test Papers

### Application:

The glucose test strips and test papers are designed for use in educational settings only. They can be used to test water samples (from food extracts), urine (not for medical use), and other select experiments, such as, osmosis experiments.

Test Range: Varies from 0-3000 mg/dL (0-3%) depending on strip or paper item number

Test Increments: Color chart calibrated at several points within the test range

Accuracy: +/- ½ color chart unit

### Storage Recommendations:

Store in original packaging in a cool (20-30C), dry, place out of direct sunlight.

Shelf-Life: Two years from date of manufacture when stored properly in original packaging.

Interferences: Interferences in testing food samples include Vitamin C.

Instructions for Use: Follow the instructions on the label.

### Chemistry Behind the Test:

The test strips/papers employ the enzymes glucose oxidase (GOD) and peroxidase (POD) to detect the amount of b-D-glucose in the sample. The GOD causes the release of hydrogen peroxide that then reacts with a red/ox indicator in the presence of peroxidase to form a colored reactant. The intensity of the colored reactant is proportional to the amount of glucose in the sample.

The reaction only proceeds for b-D-glucose. If the glucose is present in another isomeric form, allow the sample to undergo mutarotation (recommend a 3-hour waiting period in solution) before conducting the test.

### Disclaimer:

The Glucose test strips/papers are not intended for use to diagnose, treat, or monitor any medical condition.