Urine Glucose Test Strips

Read the pack insert carefully before performing the Test

Catalogue No. : UGS-100

Introduction :

Sugar sticks are firm plastic strips to which Glucose reagent area is affixed. The strips provide a semiquantitative determination for the presence and concentration of Glucose in urine.

Chemical Prinicples of the Procedure :

The test is based on a double sequential enzyme reaction. One enzyme glucose oxidase, catalyzes the formation of gluconic acid and hydrogen peroxide from the oxidation of glucose. A second exnzyme peroxidase, catalyzes the reaction of hydrogen peroxide with a potassium iodide chromogen to oxidise the chromogen to colours ranging from green to brown.

Pack Size :

Available in packs of 50 and 100 Tests.

Warning And Precautions :

1. Remove the strip/s for immediate use only. Replace the cap promptly and tightly after removing the reagent strip.
2. Do not transfer the strips from their original bottle to any other bottle.
3. Do not remove the desiccant from the bottle.
4. Care must be taken not to touch the test reagent areas of unused strips.
5. Protect reagent strips from moisture, to prevent deterioration during storage.
6. Avoid contamination with hydrogen peroxide or any strong oxidizing agent, such as hypochlorite.
7. Do not combine strips with different lot numbers together.
8. All reagent strips must be used within three months from the date of opening the bottle.
9. The strips are for in vitro diagnostic use only.

Specimen Collection and Preparation :

Collect fresh urine in a clean container and test it as soon as possible. Do not centrifuge. The use of urine Preservatives is not recommended. If testing cannot be done within an hour after voiding, refrigerate the specimen immediately and let it return to room temperature before testing. Prolonged exposure of un- preserved urine to room temperature may result in microbial proliferation with resulting changes in pH and bacterial consumption of urine glucose.

Procedure :

Must be followed Exactly to Achieve Reliable Test Results.

1. Collect random urine specimen in a clean dry container. Mix well immediately before testing.
2. Remove the required strip/s from the bottle and replace the cap immidiately. Completely immerse reagent areas of the strip in FRESH urine for 10 seconds.
3. While removing the strip, run the edge against the rim of the urine container to remove excess urine.
4. Compare reagent area to corresponding colour chart on the bottle lable in the time specified.

HOLD THE STRIP CLOSE TO COLOUR BLOCKS AND MATCH CAREFULLY.

NOTE : The colour chart should be matched under good light (but not under direct sunlight). Proper incubation time is critical for optimal results.

Expected Values :

Normally no glucose is detectable in the urine, although a minute amount is excreted by the normal kidney. A slight green colour which is less than trace is insignificant.

LIMITATIONS OF THE PROCEDURE :

High specific gravity in combination with high pH may reduce sensitivity of the test resulting in a false negative for low concentration of glucose. Ascorbic acid concentration of 50 mg/dL or greater may cause false negative results for specimens containing small amount of Glucose. Ketone bodies reduce the sensitivity of the test.

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