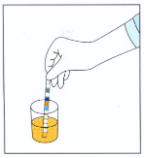
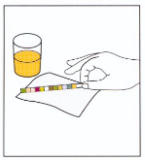
URiSCAN® 1 G – Glucose Test Strips

The URiSCAN® 1 G strip is a semi-quantitative in-vitro diagnostic test for glucose. The reagent pads change colour in response to the relative presence of glucose in solution. The reagent pads are compared to the colour chart on the side of the bottle 60 seconds after dipping in a solution. The colour blocks on the charts correspond to nominal concentration of the test substance.

Test Procedure





1. Remove one test strip from bottle ensuring cap is replaced immediately twisting cap until “click” is heard.
2. Dip strip into solution for no more than 1 second.
3. Blot the side of the strip on absorbent paper to soak up excess solution.
4. Read test results carefully at 60 seconds. Note that colour changes that occur after 2 minutes are of no diagnostic significance.

Colour Chart

Chemical Methodology and Limitations

The glucose 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 enzyme, peroxidise, catalyzes the reaction of hydrogen peroxide with a potassium iodide chromogen to oxidise the chromogen to colours ranging from blue to brown. High Specific Gravity (>1.020) and high pH (>9) may cause false negative result for low levels of glucose.