

Abstract of the Disclosure

A reagent test strip is adapted for use in a blood glucose meter. A sample of whole blood is applied to one surface of a matrix on the strip and the meter
5 measures the reflectance of the opposite surface of the matrix at about 635 nm and 700 nm and calculates from the reflectance the concentration of glucose in the sample. The portion of the applied sample that penetrates the matrix and is visible from the testing surface does not absorb to any appreciable extent at 700 nm. Nevertheless, the glucose-containing sample interacts with the
10 components of the reagent-containing matrix to cause a change in reflectance at 700 nm that simulates the effect of the blood color. As a result, the strip can be used in meters that measure glucose concentration in whole blood samples in the presence of optically visible hemoglobin.

