STABILIZIED TETRAZOLIUM REAGENT COMPOSITIONS AND METHODS FOR USING THE SAME

ABSTRACT OF THE DISCLOSURE

Stabilized tetrazolium dye reagent compositions and methods for their use in the measurement of an analyte in a sample are provided. The subject reagent compositions include a tetrazolium dye component, e.g., a water soluble tetrazolium salt, and an effective amount of a nitrite stabilizing agent, e.g., a nitrite salt. In many embodiments, the subject reagent compositions include additional members of an analyte oxidizing signal producing system, such as: an analyte oxidizing enzyme, e.g., an analyte dehydrogenase or an analyte oxidase; an electron transfer agent; and an enzyme cofactor. Also provided are test strips that include the subject reagent compositions, as well as systems and kits incorporating the subject test strips. The subject reagent compositions, test strips, systems and kits find use in the detection of a wide variety of analytes in a sample, such as a physiological sample, e.g., blood or a fraction thereof, or ISF (interstitial fluid).

Figure 1



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