ABSTRACT OF THE DISCLOSURE

Methods and devices are provided for "continuously" monitoring the concentration of an analyte in a host, *i.e.*, for automatically measuring the concentration of an analyte at two or more points during a given time period. In the subject methods, substantially painless single use analyte concentration detection devices are employed to measure the concentration of the analyte of interest in the host, or portion thereof, *e.g.*, interstitial fluid, where the measurements take place automatically according to a predetermined schedule. Devices provided by the subject methods have at least two different substantially painless single use analyte concentration measurement components which are under the control of a processing means that activates the measurement components according to a predetermined schedule. Also provided are systems and kits for use in practicing the subject methods. The subject methods find use in monitoring the concentration of a variety of different analytes of interest, and are particularly suited for use in monitoring the concentration of glucose.



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