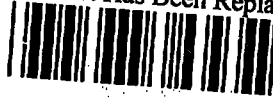

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DEVICE AND METHOD FOR CONDUCTING BIOLOGICAL ASSAYS
CONTAINING PARTICULATE SCREENING SYSTEM

ABSTRACT

Described herein is a device and method for conducting biological assays comprising the use of a particulate screening system to remove contaminating substances from the biological sample. The Particulate screening system comprises an initial hydrophilic screening layer, at least one final hydrophilic screening layer, and a reagent membrane pad with at least one hydrophilic microporous membrane having incorporated within it a colorimetric detection system for such analyte. The device and method of the invention are adapted to detect, and in some cases quantitatively or semi-quantitatively measure, an analyte present in a biological fluid so that a color change is observed when said fluid is brought into contact with the reagent membrane pad containing the detection system. The system is particularly suited in glucose or cholesterol detection devices where presence of particulate matter in the biological sample, most notably red blood cells, would be a hindrance to the analytical results.

(figure 1A)