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Calibration Specification for Portable Blood Glucose Meters

便携式血糖分析仪校准规范

(English Translation)

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Table of Contents

1 Scope (1)
2. References (1)
3 Terms and Definitions (1)
3.1 Carryover (1)
4 Overview (1)
5 Metrological characteristics (1)
5.1 Indication error (1)
5.2 Measurement repeatability (2)
5.3 Linearity error (2)
5.4 Carryover (2)

5.4 Carryover (2)

Calibration Condition 6 (2)

9 Recalibration interval (4)

Appendix A portable blood glucose analyzer calibration record format (5)

Appendix B portable blood glucose analyzer calibration certificate (within the page) format (6)

Appendix C portable blood glucose analyzer Indication Error of Measurement Uncertainty (7)

Portable blood glucose analyzer calibration specification

1 Scope

This specification defines the metrological characteristics of a portable blood glucose analyzer calibration conditions and calibration methods. The specification for the body External monitoring of blood glucose content portable blood glucose analyzer.

2. References

JJF 1001-2011 common measurement terms and definitions JJF 1059-1999 Measurement Uncertainty and representation GB 6682-2008 analytical laboratory use specifications and test methods GB/T 19634-2005 vitro diagnostic test systems for self blood glucose monitoring system General technical requirements WS/T 226-2002 portable blood glucose meter blood glucose measurement guide for dated references, only the dated edition

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applies to this specification; undated reference documents Member, the latest edition (including any amendments) applies to this specification.

3 Terms and Definitions 3.1 carryover carry-overrate by the measurement system will carry a test sample reaction to detect the analyte another sample of the reaction discrete amount by this error affected the performance of another quantity of the test sample. Usually taken given the known nominal value of high and low sample Measured value of the sample cross many times, calculated using a specific formula.

4 Overview

Portable blood glucose analyzer according to the measure of sugar technology can be divided electrochemical test and the light reflective technology test two categories.

The former is an enzyme reacts with glucose to produce an electronic current through the counting device, read the number of electrons; microcontroller according to Correspondence between the current size and the blood glucose concentration in the blood glucose concentration is calculated and displayed. The latter is by Contact with the blood test reagent block blood glucose test strips, and color change agent blocks react portable blood glucose by irradiating the test wells analyzer reagent strip block strip on the platform, and measuring the reflected light, thereby obtaining a reagent strip Built-in microcontroller based on the color of the corresponding block and reagent strip blood glucose concentration; changes in color blocks Relationship between blood glucose concentration values calculated and displayed.

Portable blood glucose analyzer by the analysis system, microcontrollers, data storage, LCD display, data output interface Ports and other components.

Rapid measurement portable blood glucose analyzer is mainly used in fresh capillary whole blood glucose content can also be used Venous whole blood, rapid measurement of serum (plasma) of the glucose content.

5 Metrological characteristics

5.1 Indication error

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