Q-lineBiotech

Spreading Healthiness!

Diabetes & HbA1c testing

Q- A1c H10

Hemoglobin Analyzer (HPLC)

www.qlinebiotech.com

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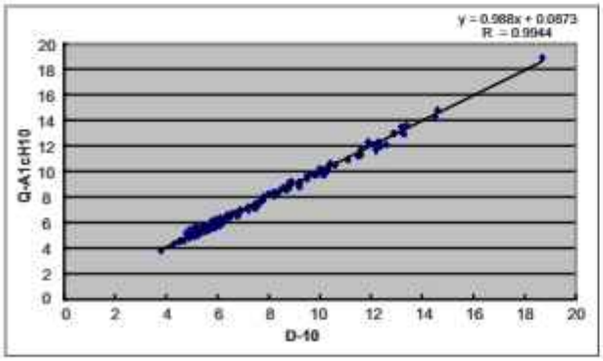
The fully automated Q-A1cH10 Hemoglobin Analyzer offers the fast throughput of HbA1c results in 130 seconds, with Hb variant detection, providing the outstanding solution for quick and reliable diabetic monitoring. No sample preparation and very little hands-on time by the operator is required for the H10 Analyzer.

Gold Standard of Diabetes Diagnosis & Monitoring

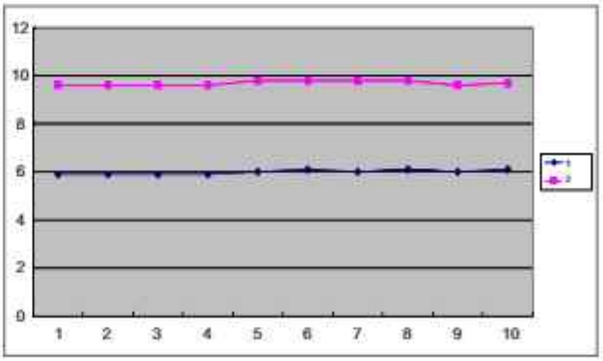
Glycosylated hemoglobin (HbA1c) is widely recognized as a Gold Standard to monitor diabetes, which can indicate the average plasma glucose concentration over 8 ~ 12 weeks.

HPLC Methodology

High-Pressure Liquid Chromatography (HPLC), to separate HbA1c, HbF, HbA2 directly with measuring the absorbance points continually to form chromatogram. Using normal distribution curve fitting auto-iterative algorithm to get precise HbA1c testing result, excluding interference of variant and unstable hemoglobin. Standard Analysis Mode will report HbA1a, HbA1b, HbF, La1c, HbA1c, HbA0 peak areas and ratio. And the result also includes IFCC, NGSP and ADAG value for diverse client needs.

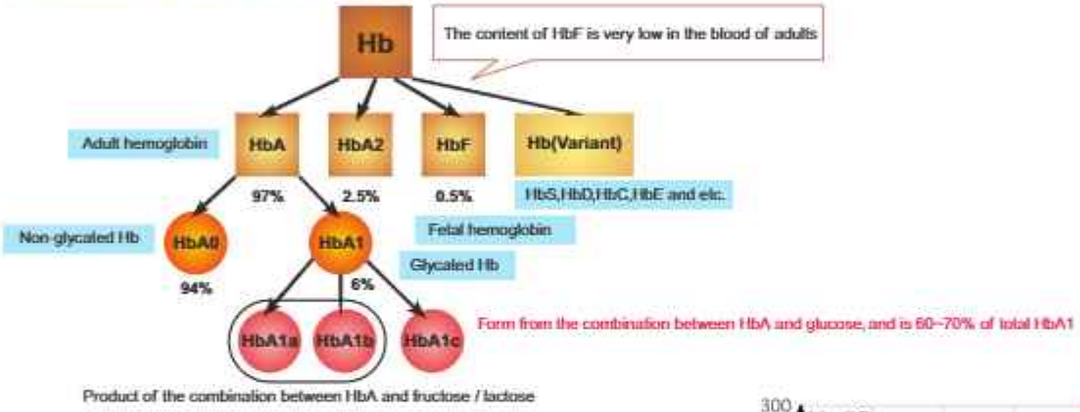


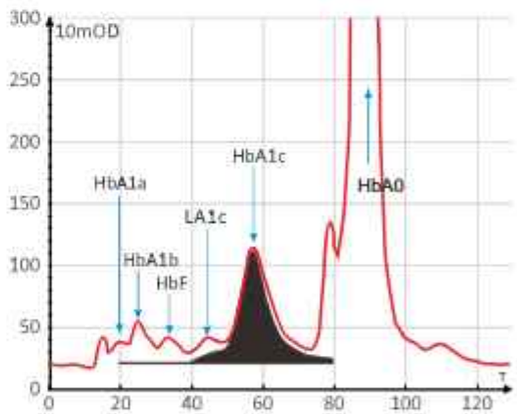
Correlation between Q-A1cH10 and D-10



Precision Study

The Elements of Hemoglobin





HPLC Technology – Gold Standard Methodology

- HbA1c Results in 130 Seconds

Fully Automated - To Minimize Operation Hassles

- Primary Tube Sampling with Cap Piercing
- Fully Automated Startup, Maintenance and Shutdown
- Barcode Scanner for Sample Identification

Precise and Reliable – To Serve You Consistently

- HbA1c Inter Measuring CV ≤ 1.5 % & Intra Measuring CV's ≤ 3 % to Enable Exceptional Result Management
- Superior Quality Chromatographic Resolution to Eliminate Interferences

Dual Wavelength Detection – To Avoid Interference

- To Avoid the Reagent Peak Interference
- More Anti-interference Abilities, the Mutation Factor Interference to the Peak Can be Easily Counteracted
- To Eliminate the Nonspecific Absorption of Hemoglobin

Degasser – For Better Result Accuracy

- More Stable Pressure, More Accurate Flow Rate
- To Reduce Background Absorption and Improve Detection Sensitivity
- To Improve the Separation Effect of Column and Prolong Its Lifetime

Compact Size – To Minimize Space Requirements

- Small Footprint Reduces Bench Space Needed

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Hemoglobin Analyzer (HPLC)

Technical Specifications

Methodology	High - Performance Liquid Chromatography (HPLC)
Test Modes	Standard Mode, Variant Mode, Thalassemia Mode
Test Range	3 % - 18 %
Precision	CV ≤ 1.5 %
Test Speed	130 Secs / Test for Variant Mode, 380 Secs / Test for thalassemia mode
Sample Type	Venous Blood, Finger Peripheral Blood, Lyophilized Whole Blood Peripheral Blood, 500 µL (150 Dilution Ratio)
Auto Sample Station	10 Positions
Photometer	415 nm + 500 nm Detector
Chromatography Column	Available Tests ≥1600 Tests
Filter	800 Tests
Display	10.1 " TFT True Color LCD Touch Screen
Software	Linux Software with Self - Diagnosis to Monitor and Detect System Errors
Reagent Kit	Eluent A, Eluent B, Eluent C, Hemolysin, Calibrator, QC Material (Weight Sensor ± 1 %)
Information Input	Scanner or Touch Keypad
Storage	4000 Sample Results
Connection	USB, LAN, LIS Compatible
Printer	Inbuilt Thermal Printer and External Laser Printer
Humidity	≤ 80 %
Barcode Scanner	Yes, External
QC Curve	Yes, Available for Two Level Controls
Operation	Temperature 10 ~ 30 °C (50 ~ 86 °F)
Power	AC 100-240 V 50/60 HZ 120 VA
Dimensions	600 mm x 360 mm x 540 mm (23.6" H x14.2 "W x 21.3" D)
Weight	49 KG

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