

H8 Hemoglobin Analyzer (HPLC)

TECHNICAL SPECS

Methodology	High-Performance Liquid Chromatography (HPLC)
Test Modes	Fast Mode, Variant Mode
Test Range	3% - 18%
Precision	CV ≤1.5%
First Sample Result	7.5 Mins
Test Speed	1.5Mins/sample for Fast Mode, 2.2 Mins/sample for Variant Mode
Sample Type	Venous Blood, Finger Peripheral Blood, Lyophilized Whole Blood Peripheral Blood, 500ul(150 Dilution Ratio)
Auto Sample Station	10 Positions
Photometer	415nm+500nm LED, 20000 Hours Life Span
Chromatography Column	Available Tests ≥800T
Filter	≥400T
Display	10.1"TFT True Color LCD Touch Screen
Software	Embedded System 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	Thermal Printer and External Laser Printer
Operation	Temperature 10~30°C (~°F)
Humidity	≤85%
Power	AC 100-240V 50/60HZ 120VA
Dimensions	580mm×500mm×520mm (22.8"H×19.7"W×20.5"D)
Weight	50kg (110lbs)
Barcode Scanner	QC Curve



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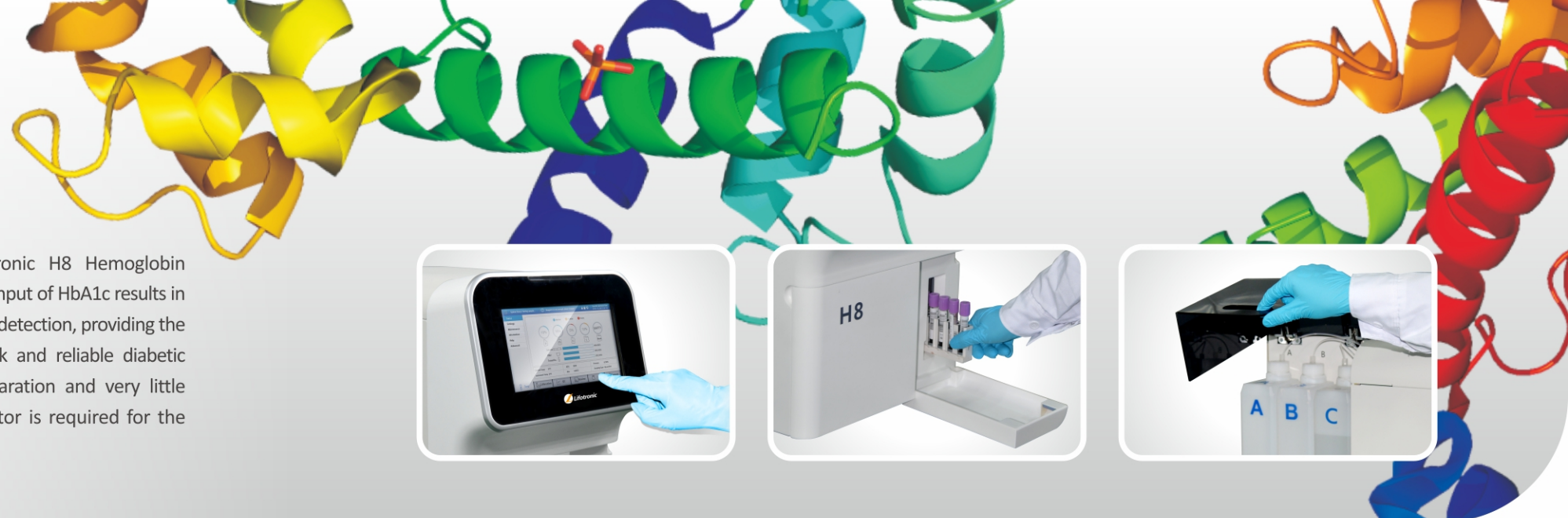
Web: en.lifotronic.com



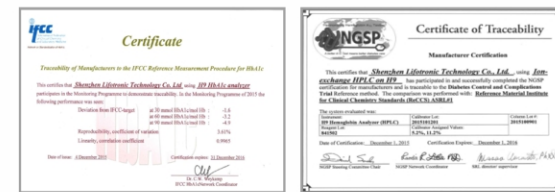
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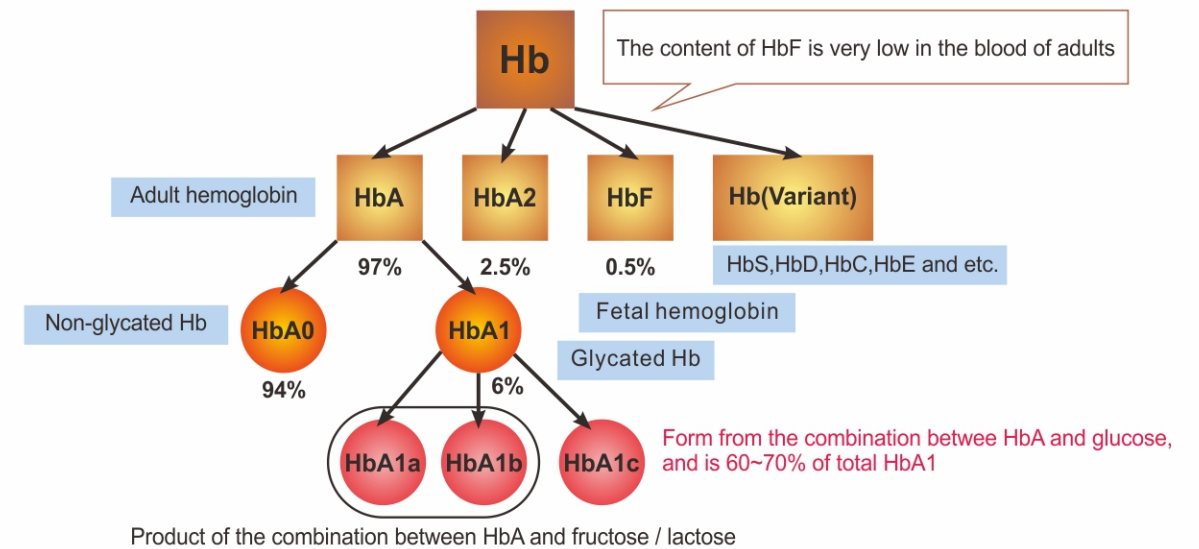
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The Fully automated Lifotronic H8 Hemoglobin Analyzer offers the fast throughput of HbA1c results in 130 seconds, with Hb variant detection, providing the outstanding solution for quick and reliable diabetic monitoring. No sample preparation and very little hands-on time by the operator is required for the H8 Analyzer.



The Elements of Hemoglobin

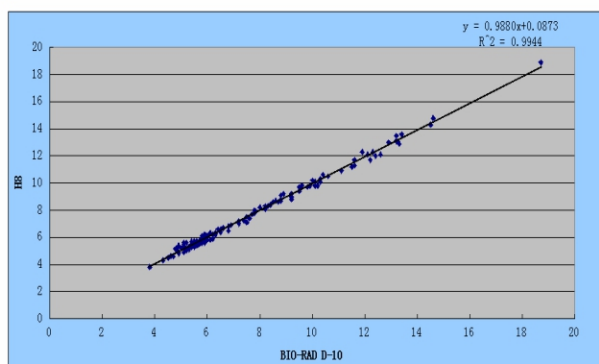


Gold Standard of Diabetes Diagnose

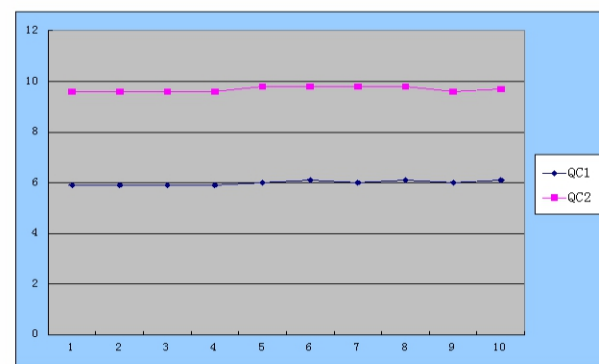
Glycosylated hemoglobin (HbA1c) is widely recognized as a Gold Standard to monitor diabetes, which can indicate the average plasma glucose concentration over 8~12 weeks.

HPLC Methodology

High-PressureLiquid Chromatography (HPLC), to separate HbA1c 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 like HbF. Standard Analysis Mode will report HbA1a, HbA1b, HbF, HbA1c, LA1c, HbA0 peak areas and ratio. And the result also includes IFCC, NGSP and ADAG value for diverse client needs.



Correlation between H8 and a famous HPLC method



Precision Study

HPLC Technology – Gold Standard Methodology

- NGSP and IFCC certified
- HbA1c results in 130 seconds

Fully Automated - To Minimize Operation Hassles

- Primary Tube Sampling with Cap Piercing
- Fully Automated Start-up, Maintenance and Shutdown
- Barcode Scanner for Sample identification

Precise and Reliable – To Serve You Consistently

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

Dual Wavelength Effect

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

Dual Wavelength Effect

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

Compact Size - To Minimize Space Requirements

- Small Footprint Reduces Bench Space Needed

