



## H9 Hemoglobin HbA1c / Thalassemia Analyzer (HPLC)

### Specifications

Methodology	High - Performance Liquid Chromatography (HPLC)
Test Modes	HbA1c Mode (Hb F ,HbA1c and Variants Hb E, Hb D, Hb S & Hb C) Thalassemia Mode (Hb F ,HbA1c,Hb A2 and all Variants)
Test Range	3% - 18%
Precision	CV ≤1.5%
Test Speed	130 Sec / T for HbA1c Mode, 380 Sec / T for Thalassemia
Sample Type	Venous Blood, Finger Peripheral Blood, Lyophilized Whole Blood
Sample Volume	HbA1c 5µl / Thalassemia 8µl / Dilution 750µl
Auto Sample Station	110 Positions + Continues loading
Photometer	415nm + 500nm LED, 20000 Hours Life Span
Chromatography Column	1600T
Filter	800T
Display	8 " 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
Information Input	Scanner or Touch Keypad
Storage	4000 Sample Results
Connection	Rs232, USB, LIS Compatible
Printer	Thermal Printer and External Laser Printer
Operation Temperature	10 ~ 30°C ( 50 ~ 86°F )
Humidity	10 ~ 70%
Power	AC 100 - 240V 50/60HZ 150VA
Dimensions	580mm × 500mm × 520mm (22.8" H × 19.7" W × 20.5" D)
Weight	50kg (110lbs)
Barcode Scanner	Internal Automated Scan

## H9 Hemoglobin Analyzer (HPLC)

“Touching Human Lives Through Innovation”



- HbA1c
- Hb variants
- β-Thalassemia



### 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.
- H9 Hemoglobin Analyzer adopts linear gradient chromatographic elution method, with patented result algorithm, to provide accurate result for clinical diagnose and treatment.

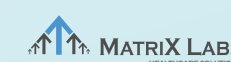


### HPLC Methodology

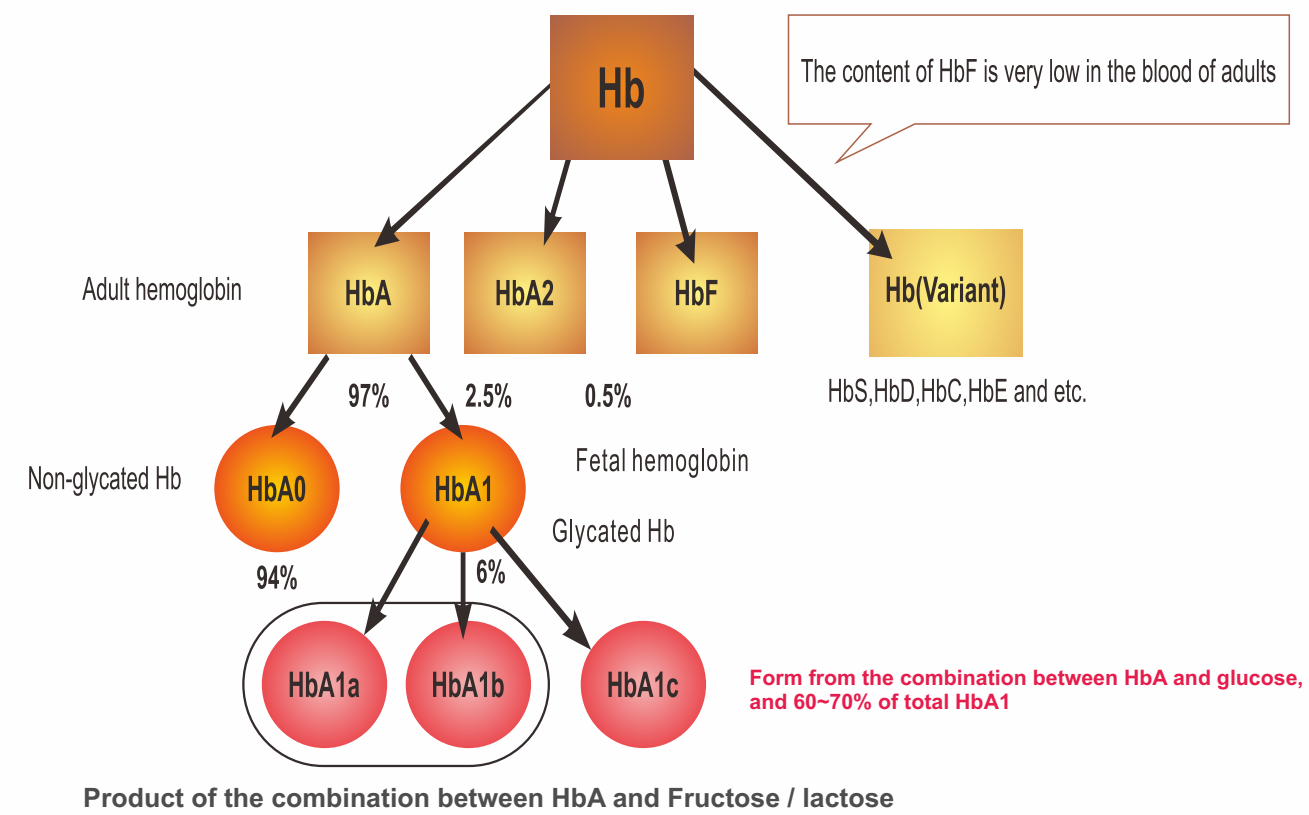
- High - Performance Liquid Chromatography (HPLC), to separate HbA1c directly with measuring the absorbance points continually to form chromatogram. Using normal distribution curve fitting auto - iterative algorithm to get precise HbA1c testing result, excluding interference of variant and unstable hemoglobin like HbF. Standard Analysis Mode will report HbA1a, HbA1b, HbF, HbA1c, P3, HbA0 peak areas and ratio. And the result also includes IFCC, NGSP and eAG value for diverse client needs.



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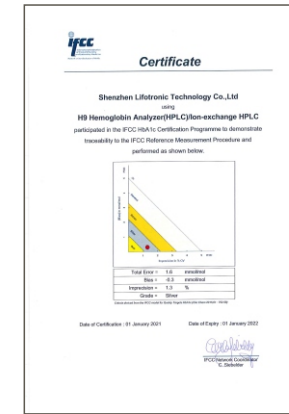
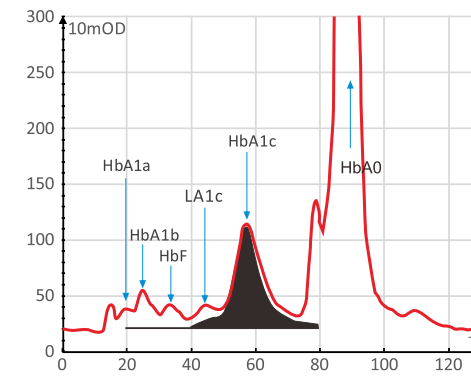


## The Elements of Hemoglobin



## H9 Hemoglobin Analyzer (HPLC)

The fully automated Lifotronic H9 Hemoglobin Analyzer offers the fastest available throughput of HbA1c results in just 1.2 minutes, with Hb variant detection, providing the outstanding solution for quick and reliable diabetic monitoring. Patients with hemoglobin variants can be in depth analyzed by simple mode change to  $\beta$  - thalassemia program.



IFCC



NGSP

No sample preparation and very little hands - on time by the operator is required for the H9 Analyzer. The sampling station accepts bar - coded primary tubes, samples from the closed tube and dilutes and injects the specimen into the chromatographic station for analysis. Results are managed by Lifotronic's Patient Data Management Software™ (PDM), which can be synchronized with the laboratory information system (LIS) in real time. Lifotronic provides complete assay kits for HbA1c and  $\beta$  - thalassemia on the H9 Analyzer.

### HPLC Technology - Gold Standard Methodology

- Anchored to the Diabetes Control and Complication Trial (DCCT) Reference Study
- NGSP and IFCC Certified

### Fast - To Ensure Your Workload is Processed Promptly

- HbA1c Results in 1.2 Minutes
- With \*  $\beta$  - thalassaemia Program

### Fully Automated - To Minimize Operation Hassles

- Automated Piercing
- Fully Automated Start - up, Maintenance and Shutdown
- Internal Auto Barcode Scanner for Sample Identification

### Precise and Reliable - To Serve You Consistently

- HbA1c Inter & Intra Measuring CV's  $\leq 1\%$  to Enable Exceptional Result Management
- Superior Quality Chromatographic Resolution to Minimize Interferences



### User Friendly - To Avoid Operator Error

- 8" TFT Touch Screen LCD with Vivid Color
- Easy to Understand and Pellucid Software
- Only One Type of Sample Rack Required for All Different Tubes

### Flexible - To Satisfy Diverse Laboratory's Needs

- Different Sample Tubes Can Be Loaded in Any Order in Any Rack
- A 110 Sample Loader Available for Laboratory Automation
- Highly Customizable Remarks to Meet Your Needs
- External Laser Printer for Direct Patient Result

### Complex System Functions - For Easy Integration

- USB, USB and RS232 Ports Offer Flexible Connectivity for LIS / HIS Systems
- STAT Position for Emergency Assay

### Compact Size - To Minimize Space Requirements

- Small Footprint Reduces Bench Space Needed