

# H9 Hemoglobin Analyzer (HPLC)

## Specifications

<b>Methodology</b>	High-Performance Liquid Chromatography (HPLC)
<b>Test Modes</b>	Fast Mode, Variant Mode, $\beta$ -thalassemia Mode
<b>Test Range</b>	3% - 18%
<b>Precision</b>	CV $\leq$ 1%
<b>First Sample Result</b>	2.4 Mins
<b>Test Speed</b>	1.2 Mins/sample for Fast Mode, 1.6 Mins/sample for Variant Mode
<b>Sample Type</b>	Venous Blood, Finger Peripheral Blood, Lyophilized Whole Blood
<b>Sample Volume</b>	5ul, Peripheral Blood, 3ul (1000 Dilution Rate)
<b>Auto Sample Station</b>	110 Positions+1 Stat Position
<b>Photometer</b>	415nm+500nm LED, 20000 Hours Life Span
<b>Chromatography Column</b>	Available Tests $\geq$ 1500T
<b>Filter</b>	$\geq$ 400T
<b>Display</b>	8" TFT True Color LCD Touch Screen
<b>Software</b>	Embedded System with Self-Diagnosis to Monitor and Detect System Errors
<b>Reagent Kit</b>	Eluent A, Eluent B, Eluent C, Hemolysin, Calibrator, QC Material
<b>Information Input</b>	Scanner or Touch Keypad
<b>Storage</b>	4000 Sample Results
<b>Connection</b>	Rs232, USB, LIS Compatible
<b>Printer</b>	Thermal Printer and External Laser Printer
<b>Operation Temperature</b>	12~35°C (53~95°F)
<b>Humidity</b>	10~ 70%
<b>Power</b>	AC 100-240V 50/60HZ 150VA
<b>Dimensions</b>	580mm x 500mm x 520mm (22.8"H x 19.7"W x 20.5"D)
<b>Weight</b>	50kg (110lbs)
<b>Barcode Scanner</b>	QC Curve



### Lifotronic Technology Co., Ltd.

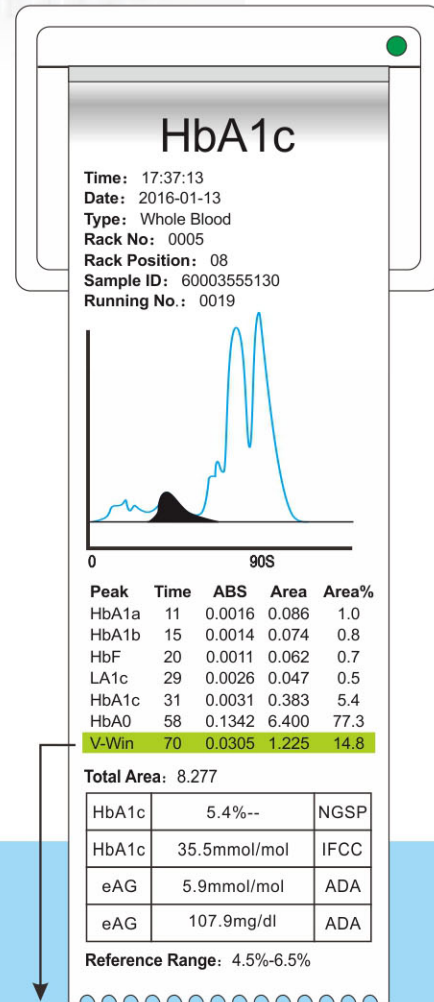
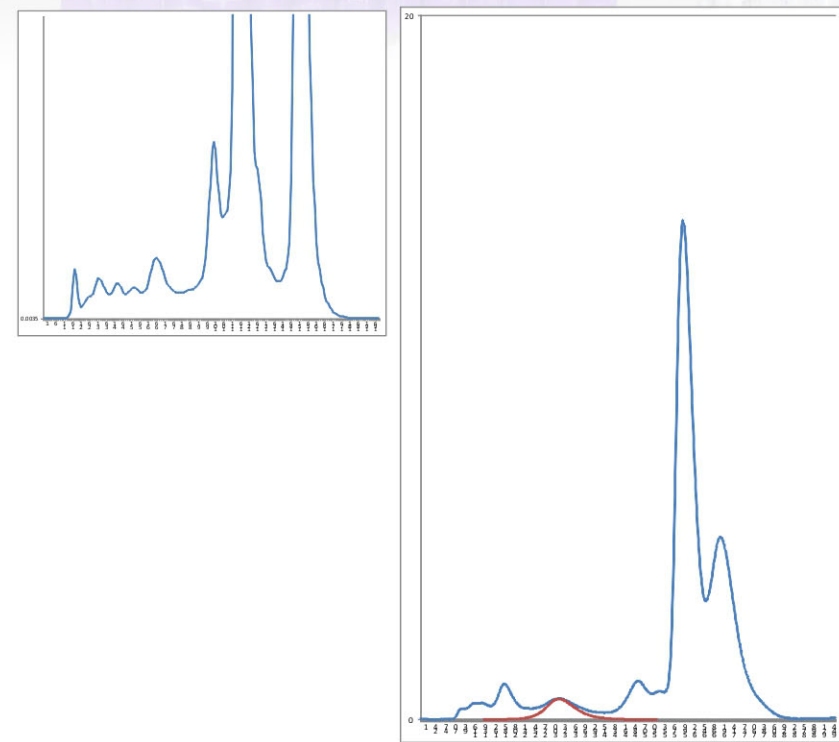
Address: 4th Floor, Building 15, 1008 Songbai Road, Nanshan District, Shenzhen, 518055, China  
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H9  
HPLC



# H9 Hemoglobin Analyzer (HPLC)



Hb Variant Peak





## H9 Hemoglobin Analyzer (HPLC)

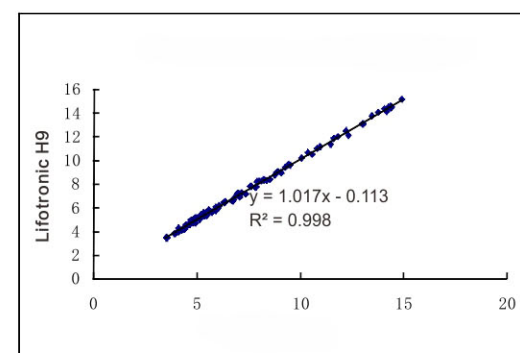
The fully automated Lifotronic H9 Hemoglobin Analyzer offers the fastest available throughput of HbA1c results in just 1.2 minutes, with Hb variant detection, providing the outstanding solution for quick and reliable diabetic monitoring. Patients with hemoglobin variants can be in depth analyzed by simple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

## Gold Standard of Diabetes Diagnose

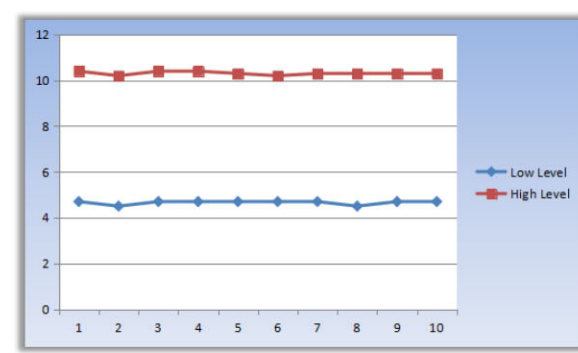
- Glycosylated hemoglobin (HbA1c) is widely recognized as a Gold Standard to monitor diabetes, which can indicate the average plasma glucose concentration over 8~12 weeks.

## HPLC Methodology

- High-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.



Correlation between H9 and a famous HPLC method



Precision Study



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

### 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
- Weight Sensor to Monitor Reagent Residue for Timely Reminder

### 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



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