



HBPro

HPLC based Fully Automated HbA1c analyser



Gold Standard Methodology



Dual Wavelength Detection



Minimize Operation Steps



Precise, Reliable and Accurate Results

HPLC Technology-Gold Standard Methodology :

- NGSP and IFCC Certified
- HbA1c Results within 130 seconds
- 5 samples loading capacity, suitable for medium to small labs

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

Minimize Operation Steps

- No Sample preparation
- Fully automated system cleaning after test
- External barcode scanner for sample identification

Precise , Reliable and Accurate Results

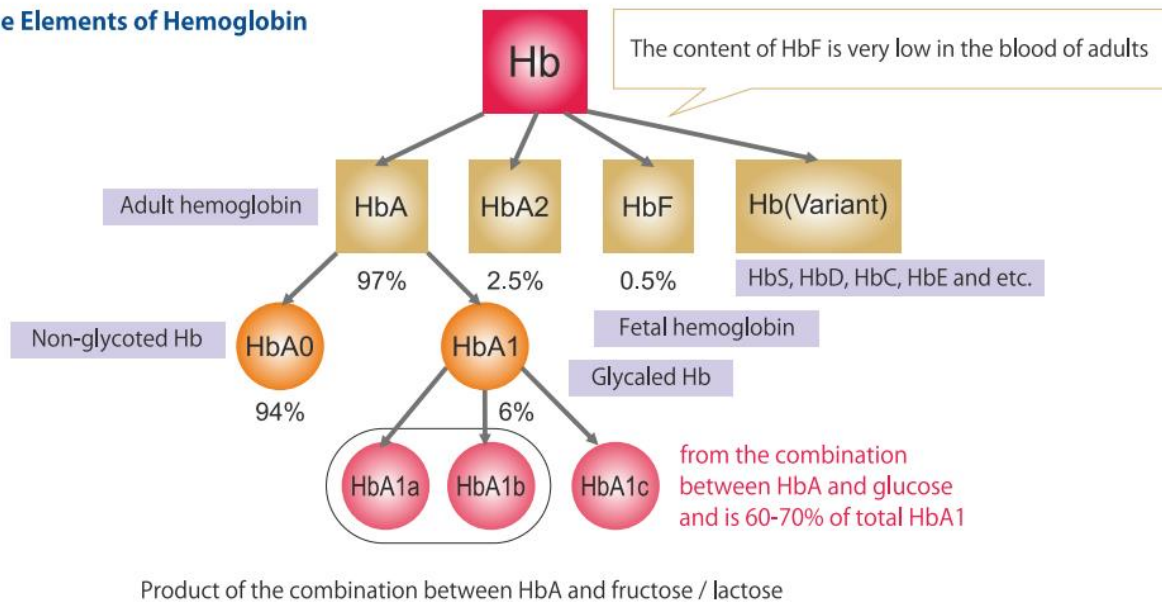
- More Stable Pressure, More Accurate Flow Rate
- To Reduce Background Absorption and Improve Detection Sensitivity
- To Improve the separation effect of Column and Prolong its life time

Outstanding Technology

LifeDx HBPro, is a compact, automated HPLC analyzer that uses ion exchange liquid chromatography for quantitative determination of the glycated haemoglobin (HbA1c) in human whole blood with processing time of 130 seconds that will expedite the laboratory TAT

- Compact automated HPLC system
- Fully automated start-up, maintenance and shutdown
- Barcode scanner for sample identification
- Five samples loading capacity
- NGSP and IFCC certified

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-Pressure Liquid Chromatography (HPLC), to separate HbA1c directly with measuring the absorbance points continually to form chromatogram. Using normal distribution curve fitting auto - **interpretative** algorithm to get precise HbA1c testing result, excluding interference of variant and unstable hemoglobin like LA1c. Standard Analysis Mode will report HbA1a, HbA1b, HbF, HbA1C, HbA0 peak areas and percentage. The result also includes IFCC, NGSP value for diverse client needs.

Precise and Reliable - To serve you consistently

- Inter measuring CV<1.5% and Intra measuring CV's <3%
- Superior quality chromatographic resolution to eliminate interferences

Other Features

- Reagent kit: Eluent A, Eluent B, Hemolysin L, Calibrator, QC material
- Test mode: HbA1c and E/D/S/C variants detected in single mode
- Precision –CV<1.5%
- Test speed 130 secs /test
- Different sample types- Venous blood ,finger peripheral blood , Lyophilized Whole Blood ,10ul (whole blood), 400ul (diluted blood)
- Double detection-with photometer of 415nm+500nm Detector
- Larger display -10.1 "TFT" True color LCD Touch screen
- Result storage -4000 sample results

Technical Specification:

Methodology	High - Performance Liquid Chromatography (HPLC)
Test Modes	HbA1c and E/D/S/C variants detected in single mode
Test Range	3% - 18%
Precision	CV < 1.5%
Test Speed	130 Secs / Test
Sample Type	Venous Blood, Finger Peripheral Blood, Lyophilized Whole Blood 10 ul (whole blood), 400ul (Diluted blood)
Auto Sample Station	5 Positions/Rack
Photometer	415nm + 500nm Detector
Filter	> 400T
Display	10.1 "TFT True Colour LCD Touch Screen
Software	Linux Software with self diagnosis to monitor and detect system errors
Reagent Kit	Eluent A, Eluent B, Hemolysin L, Calibrator; QC Material
Information Input	Scanner to touch keypad
Storage	4000 Sample Results
Connection	USB, LAN, LIS Compatible
Printer	Thermal Printer
Operation	Temperature 10 ~30oC (50 ~86oF)
Humidity	< 80%
Power	AC 100-240V 50/60Hz 120VA
Dimension	450mm (L) x 360mm (W) x 540mm (H)
Weight	32.8 Kg.