

## Technical Specification

Method	High-Performance Liquid Chromatography (HPLC)
Sampling	Cap-piercing of primary sample tubes; sample cuvette
Working Mode	A1c-R Mode, A1c Mode, A2/F Mode
Throughput	A1c-R Mode: 30T/H, A1c Mode: 24T/H, A2/F Mode: 12T/H
Precision	CV≤1.5%
Auto Sample Loader	15 sample positions,CAL1(QC1),CAL2(QC2), STAT sample position
Sample Type	Venous Blood, Finger Peripheral Blood
Test Sample Volume	5uL Whole Blood
Linearity Range	HbA1c: 3~20%, 14~191mmol/mol; HbF: 0.3~18%; HbA2: 0~10%
Heating System	Column temperature control within 40°C±0.2%
Photometer	415nm LED
Printing	57mm*50mm
USB Interface	Support LIS system, support remote online upgrade
Barcode	Optional external barcode scanner
Display	10.4 Inch Touch Screen
Storage	7500 sample results
Report Parameters	HbA1a, HbA1b, HbF, LA1c, A1c, HbA0, A2, Variant (E/D/S/C)
Operation	5~40°C
Humidity	30~75%
Power	115/230V, 50/60Hz
Dimensions	378mm*610mm*470mm
Reagent System	Eluent A, Eluent B, Eluent C, Hemolysin L



# Laffinite<sup>®</sup> II

1 System, 3 Test Modes

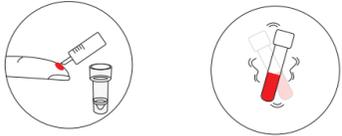
## HPLC Hemoglobin Analyzer



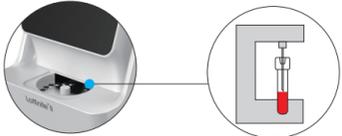
**Product Advantages**

**Flexible sample loading**

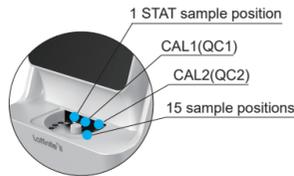
- Support for fingertip blood samples
- Automatic sample mixing



- Cap-piercing of primary sample tubes



- Auto Sample Loader

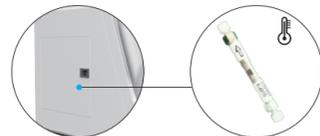


**Fast turnaround time**

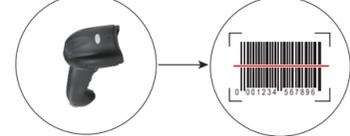
- Three mode using same reagent
- A1c-R: 118s/Test
- A1c: 150s/Test
- A2/F: 300s/Test

**Simple Operation**

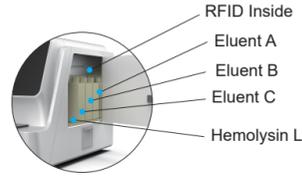
- Store the column at room temperature



- Patient specimen information automatic barcode scanning



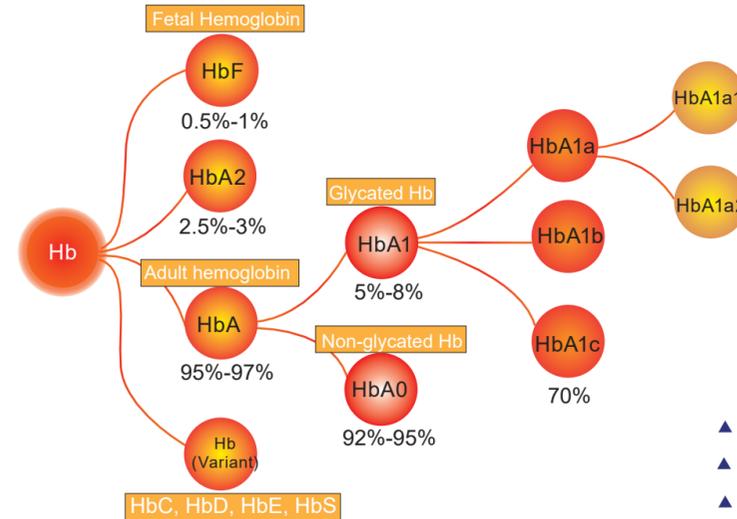
- Reagent inside the analyzer



- 10.4-inch HD touch screen
- Simple and intuitive user interface



**Principle**



- Normal Range:  $4.0\% \leq \text{HbA1c} \leq 6.0\%$
- High Risk Area:  $6.0\% \leq \text{HbA1c} \leq 6.5\%$
- Diagnostic Cut Point:  $6.5\% > \text{HbA1c}$

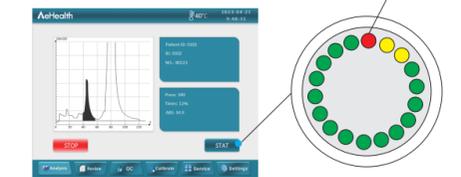
**Product Advantages**

**Easy Maintenance**

- Daily maintenance conducted automatically by the machine
- Supporting original calibration products and QC products

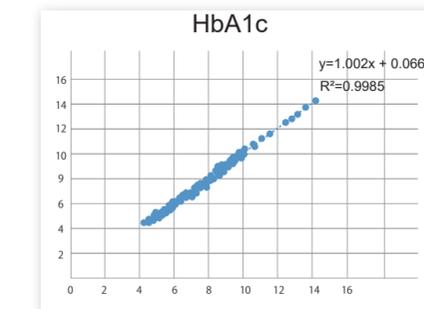


**STAT Mode**



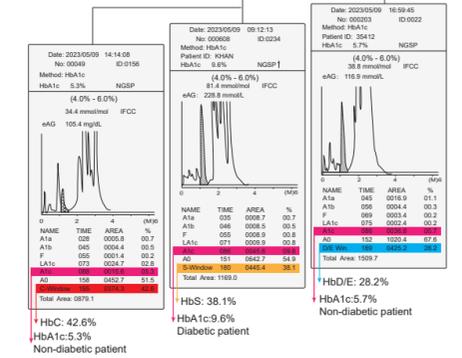
**Reliable results**

- No clinical interference with labile A1c, Variant HbC, HbD, HbE, HbS
- Excellent precision: CV $\leq$ 1.5%
- Excellent Performance Comparison

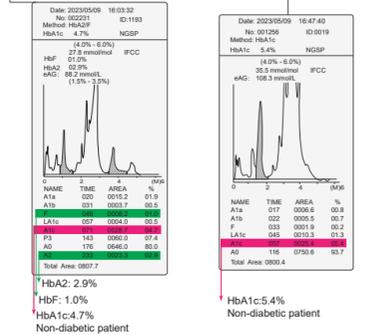


**Detailed Chromatographic Result**

- Common hemoglobin variants appear in dedicated windows



- $\beta$ -thalassemia results can be reported
- Quick test mode



**Authorized Certification**

- Laffinite II successfully obtained NGSP institutional certification

