



Technical Specification

| Model | AH80 |
|---|---|
| Testing method | High-performance liquid chromatography (HPLC) |
| Testing Item | HbA1c |
| Printing report | HbA1a,HbA1b,HbF,L-HbA1c,HbA1c,HbAO |
| Testing range | 4.0%~16.0% |
| Linearity | within the testing range, correlation coefficient $r \geq 0.9900$ |
| Precision | $CV \leq 3.0\%$ |
| Analysis speed | Printing report within 130 seconds after analysis |
| Sample type | Venous blood, finger peripheral blood, pre-dilution sample (preparation and use method refer to operation manual for details) |
| Sample volume | Venous blood and finger peripheral blood can be used, sample volume 5-10uL |
| Photometer | 415nmLED Integral flow colorimeter |
| Auto sample loader with 30 sample positions | Batch automatic testing |
| Chromatographic column usage | No less than 1000 tests |
| Reagent system | A Eluent, B Eluent, C Eluent, chromatographic column (optional), Hemolytic agent |
| Display | 8-Inch color touch screen |
| Printer | Built-in 58mm thermal printer, print testing curve and report |
| Report output | IFCC concentration, NGSP area percentage, ADAG average glucose |
| Data storage | 4000(Extensible) |
| Communication interface | USB and RS232 communication interface, connect to HIS/LIS and barcode scanner |
| Power supply | $\sim 220V \pm 22V$ 、 $50Hz \pm 1Hz$ 、250VA |
| Size | 540mmX487mmX260mm |
| Weight | 23kg including auto sample loader |
| Working Environment | Temperature $10^{\circ}C - 30^{\circ}C$ Relative humidity $\leq 70\%$ |

please refer to the operation manual for the taboo contents or matters need attention



AH80

Fully automatic HPLC HbA1c analyzer



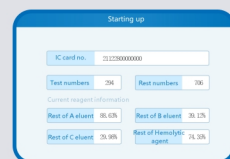
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Automatically prompt the replacement of reagent

The system will automatically detect the current use of the reagents during the use of the instrument, when one kind of the reagent is running out, the system will automatically prompt the replacement of reagent.



Inquiry of quality control

With quality control analysis, inquiry of quality control curve, inquiry of quality control data



Reagent system (Original factory)

Reagent consists of A Eluent, B Eluent, C Eluent, hemolytic agent and chromatographic column (optional)



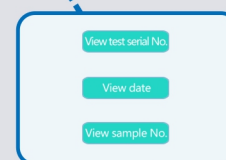
Automatic self-test and cleaning after startup

The instrument has the function of self-test and system cleaning after startup



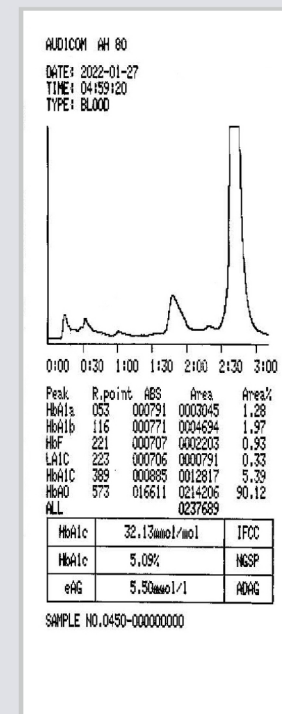
Inquiry of sample

Inquiry of sample according to date, test No. and sample No.



Chromatographic column usage

No less than 1000 tests



Display
8-inch color touch screen



Batch analysis
Intelligent control software, it can display the test curve in real time, and it can monitor and alarm the test results, absorbance, signal potential, peak time and reagent consumption.



Open structure
The instrument adopts fully open structure and solenoid valve flow path.



Degasser/Boosting and bubbles elimination system
HbA1c HPLC degasser system (Patent No.201922361825.7)
HbA1c HPLC boosting and bubbles elimination system (Patent No.201922349450.2)



Display system pressure in real time
Display instrument system pressure in real time during the testing



Auto sample loader with 30 sample positions
Auto sample loader with 30 sample positions, batch automatic testing, emergency insertion at any time



Inquiry of Chromatographic column temperature
The setting temperature of chromatographic column means the temperature to be reached by the chromatographic column under the action of a thermostatic apparatus



Test report
Test report outputs IFCC concentration, NGSP area percentage, ADAG average glucose at the same time