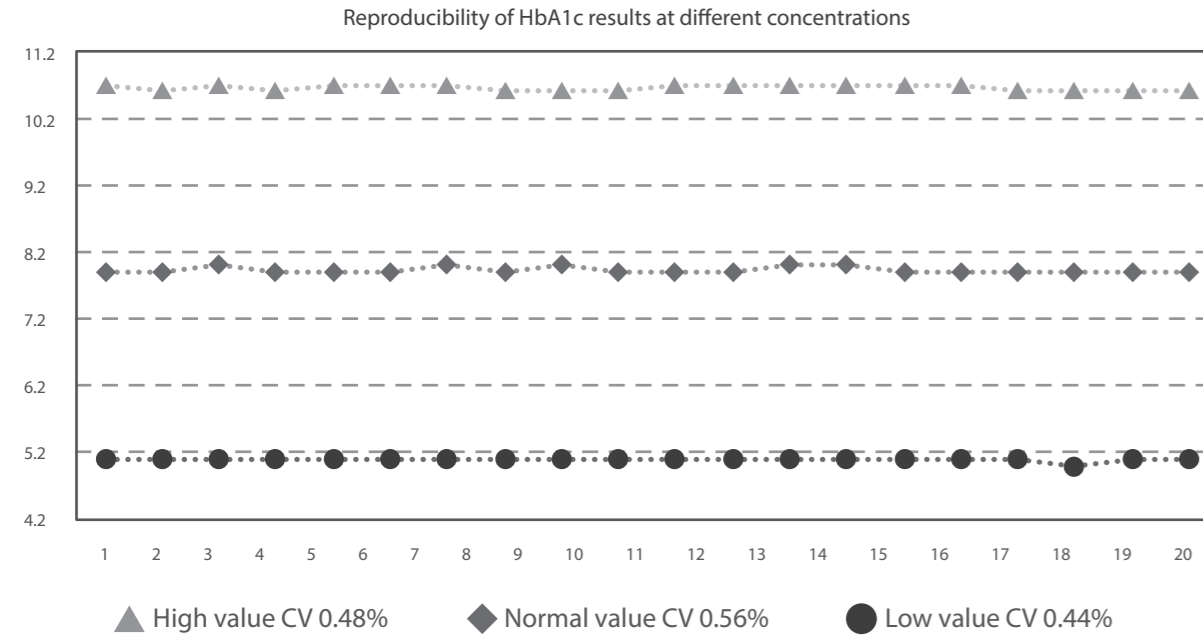


## Low CVs, High precision

With less than 1% CVs, H50 delivers more precise and reliable results of HbA1c, especially around 6.5%, which is the internationally accepted criteria for diagnosis of diabetes.



## Traceability to NGSP and IFCC

HbA1c results generated by H50 are traceable to the international reference method as certified by "National Glycohemoglobin Standard Program (NGSP)" & "International Federation of Clinical Chemistry (IFCC)"



## H50 Automated HPLC Analyzer

### Technical Specifications

Principle  
High Performance Liquid Chromatography (HPLC)

Parameters and Units  
HbF    %  
HbA1c    % and mmol/mol  
HbA1    %  
eAG    mmol/L and mg/dL

Sampling mode  
Autoloader - Whole blood mode  
Autoloader - Prediluted mode  
Closed tube - Whole blood mode

Sample Volume  
Whole blood mode: 16µL  
Prediluted mode: 4µL

Throughput  
Up to 50 samples per hour

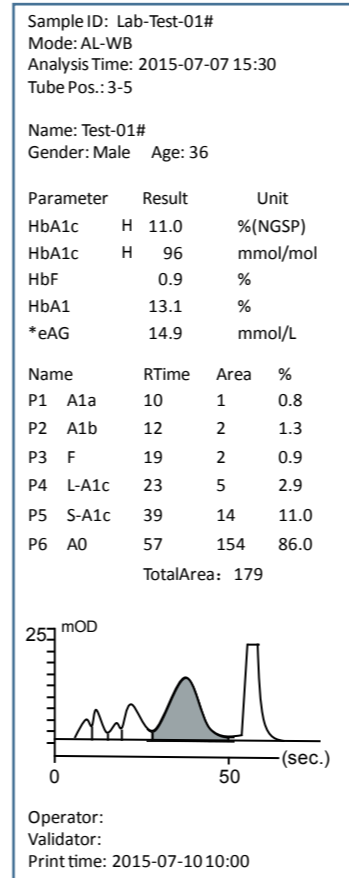
Reagents and Consumable  
Hemolysis solution  
Eluent A  
Eluent B  
Analytical column  
Probe cleanser  
Hemoglobin A1c Calibrator (CAL-1、CAL-2)  
Hemoglobin A1c Control (CRL-1、CRL-2)

Data Storage Capacity  
Up to 50,000 results including numeric and chromatograms information

Power requirement  
Voltage: 100V-240V  
Frequency: 50Hz/60Hz

Operating Environment  
Ambient temperature: 10°C - 32°C  
Relative humidity: 20% - 85%  
Atmospheric pressure: 70kPa - 106kPa

Dimension and Weight  
Width×Height×Depth: 560mm×530mm×572mm  
Weight: <65kg



Representative chromatogram  
of a diabetic patient



## H50 Automated HPLC Analyzer

Gold standard for HbA1c analysis



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Mindray is listed on the NYSE under the symbol "MR"

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P/N: ENG-H50-21285x6-20150728

**mindray**

**mindray 迈瑞**  
生命科技如此亲近

# H50

## Automated HPLC Analyzer

- HPLC method for HbA1c testing
- Method traceability certified by NGSP & IFCC
- 4 parameters: HbF, HbA1c, HbA1, eAG
- Less than 1% CVs
- 8.4 inch large-size LED touch screen
- Up to 50 samples per hour
- First sample result reported within 3 minutes
- 2 sampling modes: autoloader and closed tube
- 40 tubes autoloader with random access
- Intelligent tube rack recognition
- Easy to replace analytical column
- Radio Frequency (RF) technology to read reagent information
- Data storage capacity: 50,000 results with chromatograms
- Supports bi-directional LIS



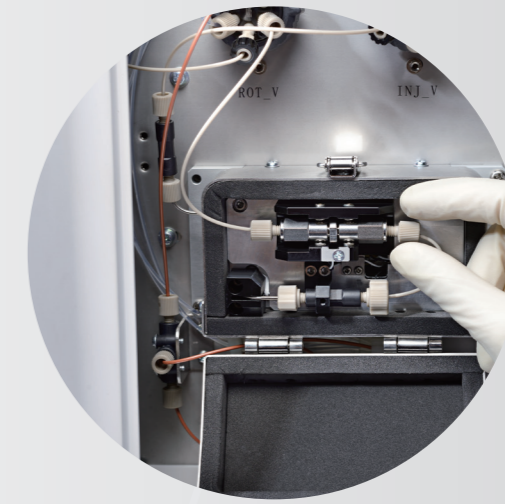
H50 features include the Gold-standard High Performance Liquid Chromatography (HPLC) method, a 50 tests/hour rapid throughput and high precision to measure glycosylated hemoglobin (HbA1c).

The ability of H50, to directly measure HbA1c, HbF as well as other fractions, assists clinicians take quick & confident therapeutic decisions. This greatly improves patient care.

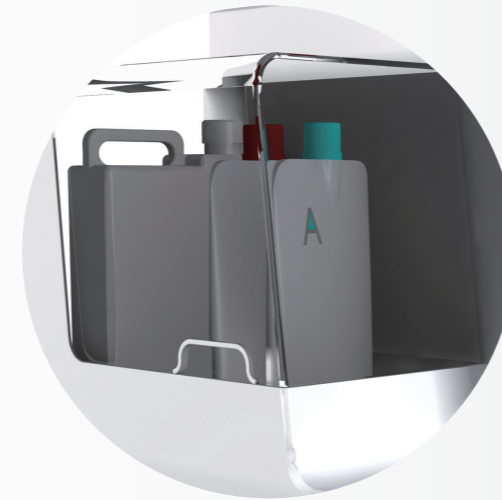
**8.4 inch screen**  
High resolution  
User-friendly software



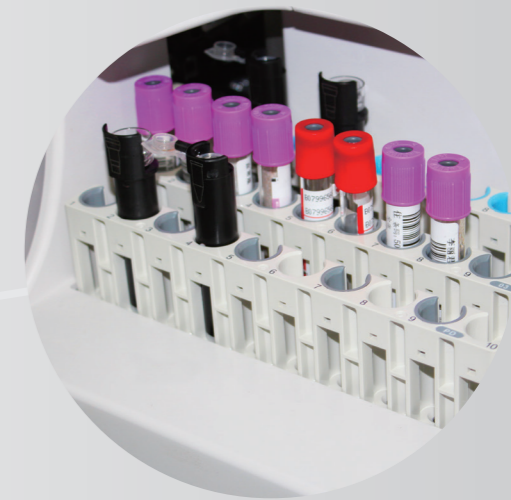
**HPLC column**  
Easy to replace  
3,000 tests at least



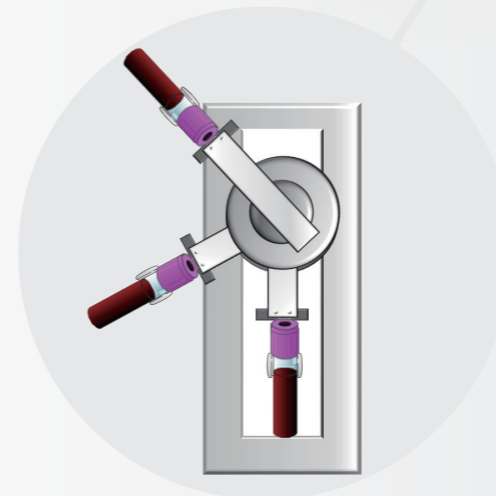
**Reagents**  
3 built-in reagents  
RF\* detection  
Reagents saving



**Autoloader**  
40 tubes load capacity  
Intelligent RF identification



**Sample mixing**  
Better mixing by inversion  
More accurate results



**Closed tube**  
STAT sample  
Cap-piercing



\* RF : Radio Frequency technology