

GH1C-800 (HPLC)

Glycated Hemoglobin (HbA1c) Analyzer

Hb-Variant Detection | Graph Transfer | Multi-machine Connection



Evolution at its best...

Faster, Easier, Smaller

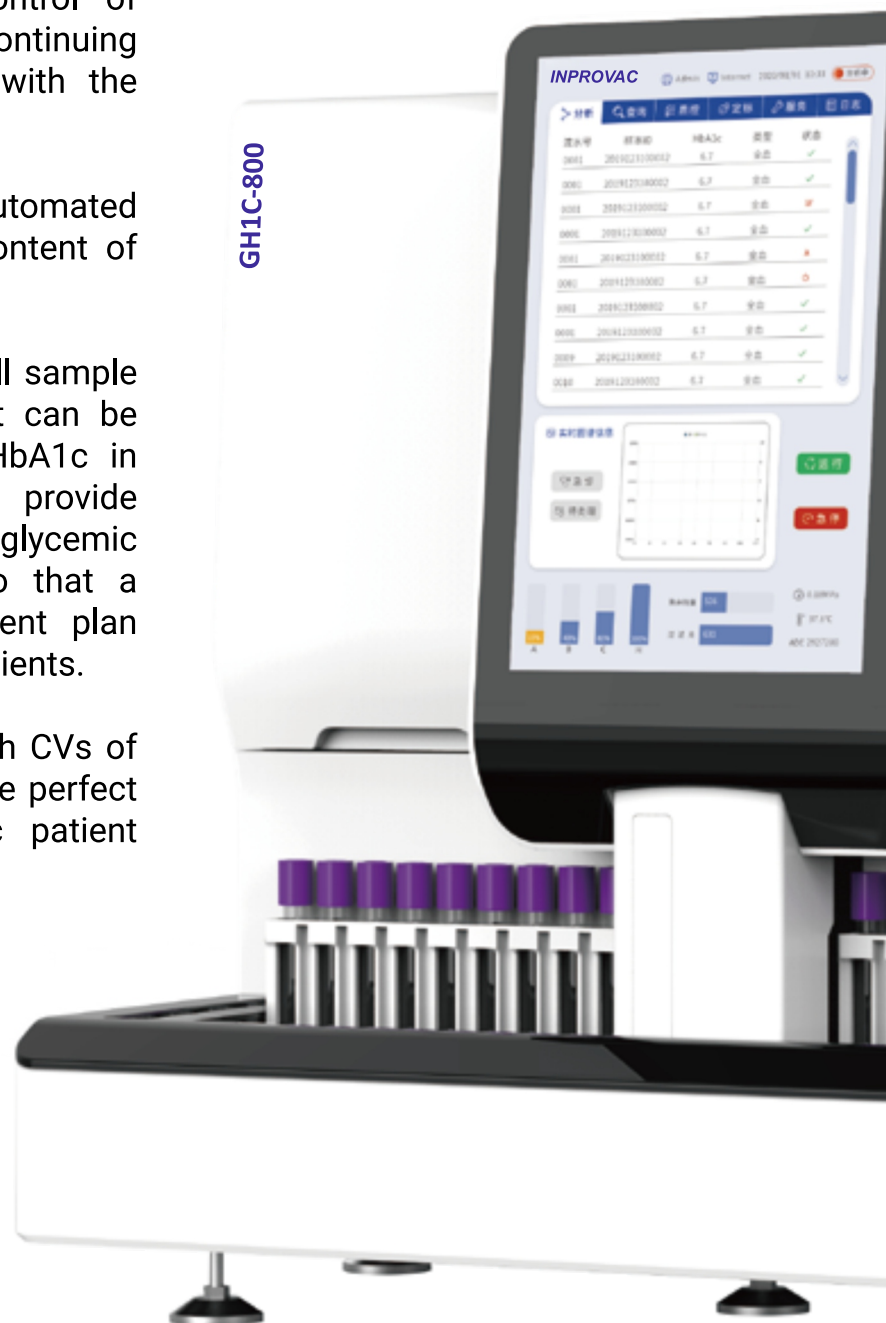
GH1C-800 HPLC ANALYZER

The significance of HbA1c for monitoring the glycemic status in the control of diabetes has increased with the continuing rise in the number of people with the disease.

The GH1C-800 analyzer is an automated instrument for measuring the content of Glycated hemoglobin in the blood.

It has the characteristics of small sample size and fast analysis speed. It can be used to monitor the level of HbA1c in diabetic patients and can provide clinicians with information on the glycemic control of diabetic patients, so that a scientific diagnosis and treatment plan can be formulated for diabetic patients.

Providing fast HbA1c results, with CVs of less than 1%, the GH1C-800 is the perfect solution for improving diabetic patient care



Functional Product with Accurate Results

HPLC Method

- High Performance Liquid Chromatography (HPLC) is considered as the “Golden Standard” method for the HbA1c test
- Ensure that the test results aligned to the Diabetes Control and Complications Trial (DCCT) and the UK Prospective Diabetes Study (UKPDS) reference studies

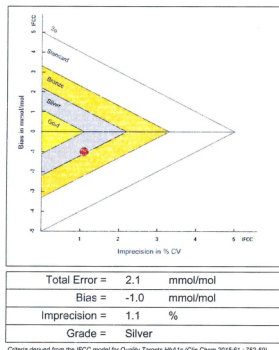
Accurate

- $CV \leq 1\%$, provides better repeatability
- NGSP and IFCC certificate
- Ability to separate common variants, HbE, HbS, HbC, and HbD, providing more information for clinical decisions



Certificate

participated in the IFCC HbA1c Certification Programme to demonstrate traceability to the IFCC Reference Measurement Procedure and performed as shown below.



Date of Certification : 01 January 2025

Date of Expiry : 01 January 2026

Signature
IFCC Network Coordinator
C. Steffens

Efficient

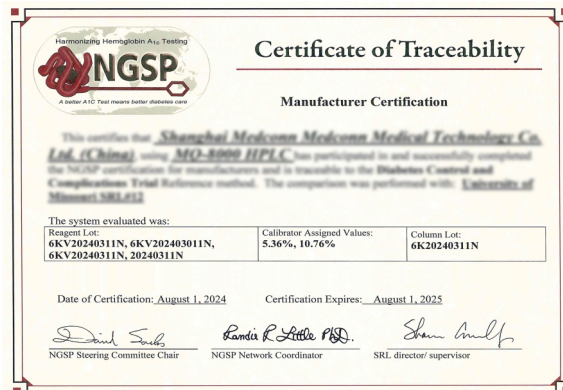
- Only 45 seconds for fast mode
- Automatic barcode reading
- Automatic mixing
- Automatic cap-piercing
- Automatic printing
- Diluted and Whole Blood Sample Auto-switching

LIS specifications

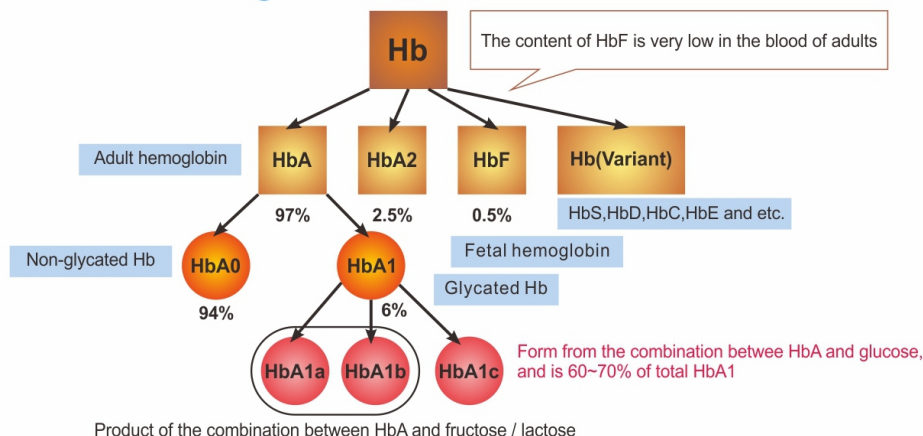
- Graph can be transmitted to the LIS system for easy query
- Supporting bidirectional transmission of results
- Supporting multi-machine connection, and providing higher productivity for large laboratories

Easy to use

- Fully automatic, no manual operation required after running samples
- The 12.1-inch touch screen provides a clear interactive interface to avoid operator error



The Elements of Hemoglobin



Specifications

Principle	Ion Exchange HPLC
Analytes	HbA1c, HbF, HbE, HbD, HbS, HbC, HbA1a, LA1c, HbA0
Speed	45 sec/test for fast mode 60 sec/test for normal mode 110 sec/test for variant mode
Sample Consumption	Whole blood: 4 µL
Loading Capacity	100 Samples
Measuring Range (NGSP)	3.0%-20.1%
Precision	CV≤1%
Data Storage	On-board memory up to 100,000 results with graph
On Board Reagent Volume Detection	Weight Level Sensor
Display	12.1 inch touch screen
Output	Internal Thermal Printer Lis System USB
Sample Handler	Dilution and Whole Blood Sample Auto-switching Internal barcode reader Auto-mixing Cap Piercing
Working Environment	10°C-30°C Humidity: ≤80% Altitude: Self-adaptive
Dimension	536 mm × 580 mm × 538 mm (L*W*H)
Weight	40.3 kg

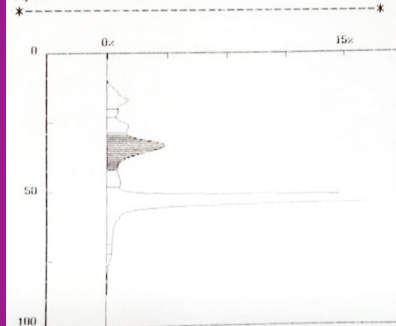
PERFORMANCE DATA

SAMPLE CHROMATOGRAM

IFCC(mmol/mol) HbA1c : 40.5

Result Report:

2024/11/20 15:26:24
TEMP (C) : 29.7 PRESS (MPa) : 2.36
SN: 5 Y=1.22*X+(-0.25)
ID: STATUS: OK
M/N: 3P2X23001



Peak	Time	Area	Ratio
A1a	19.6	0.7745	1.44
F	24.1	0.2219	0.41
LA1c	30.7	0.6566	1.22
SA1c	38.6	2.7817	6.1
P3	53.8	0.5165	0.96
A0	61.3	48.6081	90.56

NGSP(%) HbA1c : 6.1

IFCC(mmol/mol) HbA1c : 42.9



• HbA1c Calibrator



• HbA1c Control



• Column



• Reagent



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