G21 Auto Glycated Hemoglobin Analyzer

High Pressure Ion Exchange Liquid Chromatography(HPLC)

Performance

Method: High Pressure Ion Exchange Liquid Chromatography(HPLC)

Sampling system: Primary tube puncture injection, sample cup hemolysis mode injection.

Throughput: ≤3mins per sample

Sample Volume：5μL

Sample Tray: 15 samples position,CAL1(QC1)&CAL2(QC2) position,ST

Sample Type: Venous whole blood, peripheral blood

Test Item: HbA1c&β-Thalassemia

Chromatographic column: 4000test/column,calibration report and parameters can be printed after only one calibration.

Sieve plate: 200test/sieve plate,10/set

Report: IFCC&NGSP result

Sample dilution rate:1:300

Hardware

Pump: HPLC pump,The maximum pressure can be 200KG/c square meters (2900psi), with pressure sensing ability, pressure fluctuation ±5%. The analysis column heating module has the ability to control the constant temperature of the analysis column, the temperature control environment range is 5℃-40℃, and the temperature fluctuation is ±0.20℃

Illuminant：LED system,baseline drift 2mv per hour

Sample type: Original tube on the machine, original tube and diluted sample cups can be automatically recognized by the analyzer.

Printer: Thermal printing paper, printing test reports and graphs

USB port: Support LIS system software upgrade online,external barcode scanner optional

Display:10.4 inch LCD colorful touch screen,630mm×360mm×500mm

Software

With online chromatogram sample data saving and query ability

Multi–language operation and reporting software

Monitor instrument parameters real–time

Printing reports including HbA1a, HbA1b, LA1c, HbA1c, HbA0, and reports on abnormal samples.

Warning function for reagent insufficiency and no reagent.

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Visit our website for contact information of our regional sales managers.

Declaration: Our company has the final interpretation and decision–making power over the information provided in this manual.

B&E Bio-tech

G 21

Auto Glycated Hemoglobin Analyzer

High Pressure Ion Exchange Liquid Chromatography(HPLC)

Focusing on blood analysis, trustworthy

G21 Auto Glycated Hemoglobin Analyzer

In recent years, as the number of diabetic patients continues to grow, the need for diabetes diagnosis is increasing. Glycosylated hemoglobin, as an effective indicator for diabetes selection, diagnosis, glycemic control, and efficacy evaluation, has been widely used in clinical practice and is the gold standard for detecting diabetes. And High Pressure Ion Exchange Liquid Chromatography(HPLC) is listed as the gold standard among the reference methods for detecting HbA1c. G21 has also added the HbA2/F function for diagnosing β –thalassemia without the need to change reagents, which greatly improves the range of use of G21.

International NGSP Authority Certification

Certificate of Traceability

Manufacturer Certification

This certifies that B&E Bio-Technology Co., Ltd. using The high pressure ion exchange liquid chromatography (HPLC) on G20 has participated in and successfully completed the NGSP certification for manufacturers and is traceable to the Diabetes Control and Complications Trial Reference method. The comparison was performed with: Zhongshan Hospital ASRL#3

The system evaluated was:

Instrument:	Calibrator Lot: NIM-RM 3626 (220106), NIM-RM-3625(220106)
Reagent Lot: H0025, H0026, H0027, H0028	Calibrator Assigned Values: 5.0%, 10.0%

Date of Certification: December 1, 2022 Certification Expires: December 1, 2023

NGSP Steering Committee Chair NGSP Network Coordinator SRL director/ supervisor

B&E G–Series Glycated Hemoglobin Analyzer Awarded Authority of International NGSP Certification

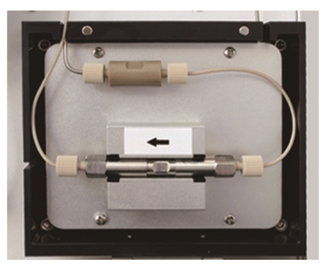
Easy Operation

- Touch screen operation is convenient and fast
- Emergency priority function
- Original tube puncture sampling function
- Batch continuous sampling function
- Samples do not require pre–processing
- Under different working mode ,no need to replace the reagents

Elution Buffer (R1,R2,R3) for G20/G21

GHgb Lyse (Lyse-G) for G20/G21

Cat.No. (Ref. No.)	Items
60200	Auto Glycated Hemoglobin Analyzer -G21
60101	Elution buffer, Model:R1,1L
60102	Elution buffer, Model:R2,1L
60103	Elution buffer, Model:R3,1L
60104	GHgb Lyse, Model:Lyse-G,1L

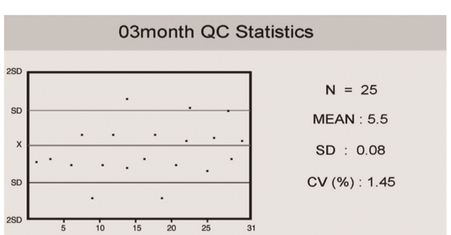


Easy Maintenance

- Abnormal situation automatic warning function
- Automatic cleaning function
- Automatic reagent detection and warning function
- Automatic data processing function

Control/Calibration

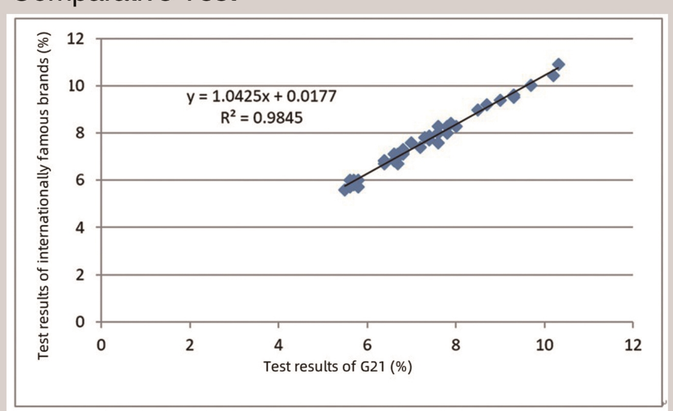
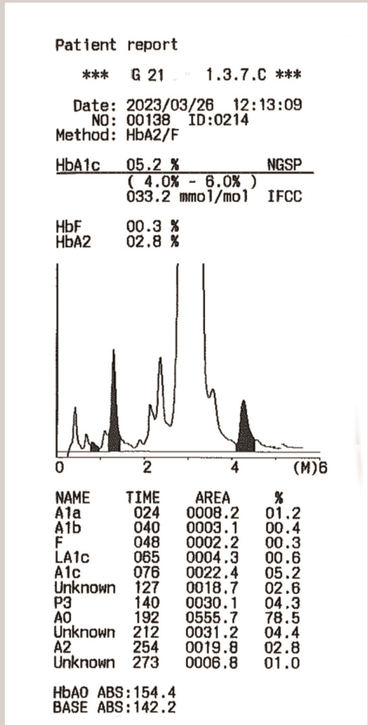
- Automatic calibration, self–calibrating with matched calibration products
- QC in real time, displays QC statistics and graphs.



Precision

	Within–Run (n=20)		Inter–Run (n=20)	
	Low	High	Low	High
Mean	5.54	10.74	5.60	10.66
SD	0.06	0.07	0.10	0.12
CV (%)	1.08	0.65	1.79	1.13

Comparative Test



Sample Chromatogram