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Supporting Care to Cure

A Division of Orchard Medical



G 21

Auto Glycated Hemoglobin Analyzer

High Pressure Ion Exchange Liquid Chromatography(HPLC)

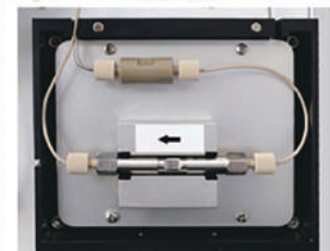
Easy Operation

- 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



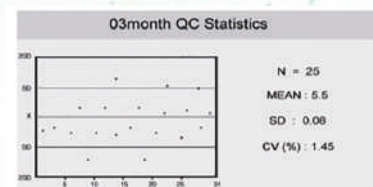
Easy Maintenance

- 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.



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 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.

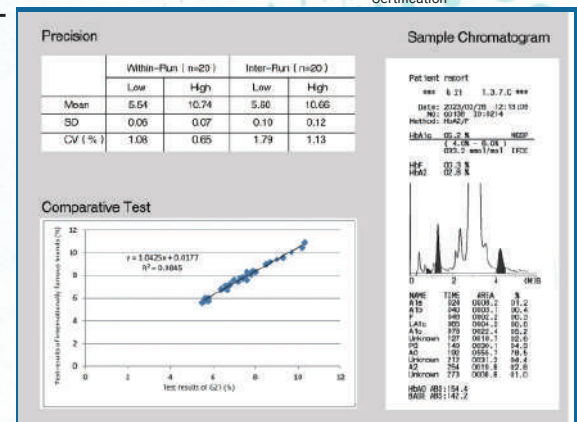
Performance

- Method : High Pressure Ion Exchange Liquid Chromatography(HPLC)
- Sampling system : Primary tube puncture injection, sample cup hemolysis mode injection.
- Throughput : ≤ 3 mins per sample
- Sample Volume : 5 μ L
- Sample Tray : 15 samples position CAL1(QC1)&CAL2(QC2) position, STAT
- 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 : 500test/sieve plate. 8/set
- Report : IFCC & NGSP result
- Sample dilution rate : 1:300

International NGSP Authority Certification

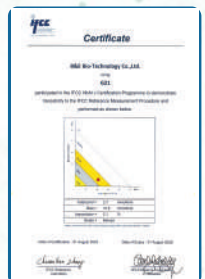


G-Series Glycated Hemoglobin Analyzer
Awarded Authority of International NGSP
Certification



Hardware

- Pump : HPLC pump, The maximum pressure can be 200KG/c square meters (2000psi), with pressure sensing ability, pressure fluctuation $\pm 5\%$. The analysis column heating module has the ability to control the constant temperature of the analysis column. The temperature control environment range is 5°C-40°C and the temperature fluctuation is $\pm 0.20^\circ\text{C}$
- 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 x 360mm x 500mm



Parameter	Unit	Target	Actual
HbA1c	%	5.0-10.0	5.5
HbA2	%	2.0-7.0	3.5
HbA0	%	0.0-1.0	0.5
LA1c	%	0.0-1.0	0.5
LA2	%	0.0-1.0	0.5
LA0	%	0.0-1.0	0.5
Unknown	%	0.0-1.0	0.5

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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