

Specifications

Principle

Ion exchange
high performance liquid chromatography (HPLC)

Analytes

HbA1c

Sample Type

Whole blood/diluted blood

Sample Volume

3 μ L

Linear Correlation

$r^2 \geq 0.99$

Reagent

Elution Buffer A\B\C,
Hemolysis, HbA1c Calibrator& Control

Consumables

Column/Filter

Configuration

LIS connection

communication USB port

Working Environment

10 ~ 30°C

Dimensions:

564mm x 560mm x 458mm

Weight:

52kg

Power Supply:

100-240V, 50/60Hz

Throughput:

60T/hour

Reaction temperature:

37 \pm 0.1 °C

Others

Color LCD touch screen; Thermal Printer
Reagent Barcode Reader



GSH-60

Automatic HPLC HbA1c Analyzer

Ordering information

Product List	Catalogue number	Pack size
GSH-60 for HbA1c determination		
Instrument		
GSH-60 Automatic HPLC HbA1c Analyzer	GSH-60	1 x 1
Reagent Kits		
HbA1c Elution Buffer A	GH1400	400 mL
HbA1c Elution Buffer A	GH1800	800 mL
HbA1c Elution Buffer B	GH2400	400 mL
HbA1c Elution Buffer B	GH2800	800 mL
HbA1c Elution Buffer C	GH3400	400 mL
HbA1c Elution Buffer C	GH3800	800 mL
Hemolysis	GHL2000	2000 mL
Hemolysis	GHL4000	4000 mL
Calibrators and Controls		
HbA1c Calibrator	HBBZGH	2 x 0.5 mL
HbA1c Control	HBDM072	0.5 mL
HbA1c Control High Level	HBDM072H	0.5 mL



CONTACT

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HbA1c, Glycated haemoglobin, reflects average glucose level over the previous 8-12 weeks. It can be performed at any time of the day and does not require any special preparation such as fasting. These characteristics have made it preferred test for assessing glycemic control in people with diabetes.



HPLC methodology

GSH-60 applies HPLC (High-Performance Liquid Chromatography) to separate HbA1c directly, resulting in dramatic improvement in efficiency and precision.

HPLC methodology utilizes the isoelectric differences between different hemoglobin fractions to separate and quantify the HbA1c. HPLC method is the gold standard for measuring HbA1c and has been regarded as the consensus method by the National Glycohemoglobin Standardization Program (NGSP). GSH-60 is dual certificated by NGSP and IFCC.



Features

Accurate & Precise

- Excellent precision: CV≤1.5%
- Broader test range: 2.8%~18.4%
- Goldsite self-developed high-performance column, Capable of separating different hemoglobin fractions.

High Efficiency

- Test duration only for 1 min.
- STAT position supported.
- 110 sample positions with automatic loading function.

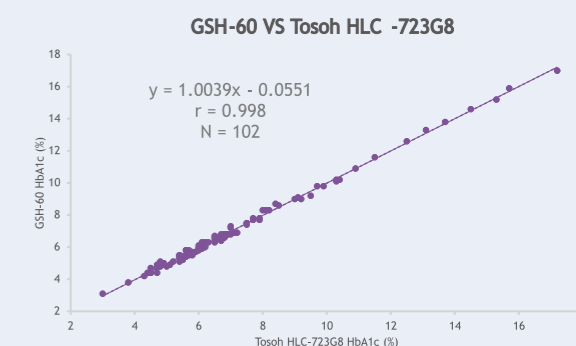
Prolonged Lifespan

- Column can be reused for **8000** times
- Smart liquid path washing system prevents unnecessary reagent-consuming.
- Upgraded reagent extends the life span of column.

Easy Maintenance

- Daily maintenance conducted automatically by the machine.
- Power-saving auto wake-up when loading sample.
- 4~12 Mpa high pressure pump offers steady output and reduce pipe blockage.
- Compatible with barcode reader that facilitates reagent information management

Performance Comparison



Sample Chromatogram

