

SPECIFICATIONS

Methodology	Ion-Exchange High Performance Liquid Chromatography
Linear Range	3.5% - 20%
Precision	CV < 2%
Test Speed	2 Mins / Sample
Sample Type	Whole blood, Pre-diluted blood
Sample Volume	4μL (Whole blood); 180μL (Pre-diluted blood)
Sample Capacity	10 Samples with 2 Emergency Positions
Column Lifetime	1000 Tests
Wavelength	415 nm
Display	7" LCD Touch Screen
Reagent Kit	Eluent A, Eluent B, Diluent H, Calibrator, QC Material
Storage	10000 Result Records
Printer	Thermal Printer, 56 mm Thermal Paper
Measurement Conditions	Temperature: 10 - 30 °C; Humidity: 20 - 80%RH (No condensation)
Power Supply	AC 100 - 240 V ± 10%, 50/60 Hz, 160 VA
Dimensions	350(D) x 415(W) x 420(H) mm
Weight	24 kg (53 lbs)



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BIOTIME



Dedicated to Better Diagnosis



HLC-100

Automatic HbA1c Analyzer

Fully automated &
Easy-to-use

Fast &
Accurate

Compact &
Reliable



Current diabetes status

Diabetes is one of the fastest growing health challenges of the 21st century. Latest information on diabetes indicates in 2021 approximately 537 million adults were living with diabetes, the total number is predicted to rise to 643 million by 2030 and to 783 million by 2045. The fact that over 3 in 4 people with diabetes live in low-and-middle-income countries should really arouse wider international attention as people in the lowest income countries will be the ones most at risk of diabetes.

Diabetes Population in 2021



537 Million

Death in 2021



Every 5”

An adult died of diabetes and its complications

Undiagnosed Case



240 Million

1 in 2 people living with diabetes are undiagnosed

Predicted Cases by 2045

783 Million

Diabetes is one of the fastest growing health challenges of the 21st century

Quality of Life

\$ 966 Billion

a 316% increase over the last 15 years

Demography

87.5%

Over 3 in 4 adults with diabetes live in low-and middle-income countries

* Resource: WHO & IDF

HbA1c & HPLC Methodology

Diabetes screening blood test is a good preventative method for tracing the development of diabetes at an early stage. **HbA1c**, which reflects the average glucose level in the last 8-12 weeks, is one of the most widely used test in diabetes management.

Ion-exchange HPLC is widely recognized as the gold standard for HbA1c measurement. It is a separation mechanism which allows haemoglobin species (HbA1c and HbA0) to be separated based on the differences in isoelectric point, by employing differences in ionic interactions between the haemoglobin in the blood sample and the cation exchange groups on the column resin surface.

BIOTIME HLC-100 Automatic HbA1c Analyzer

The HLC-100 Analyzer provides comprehensive, automated hemoglobin testing in a compact footprint. Based on HPLC principle, highly-accurate results for HbA1c are available within 2 minutes.

HPLC Technology

- The Gold Standard Method for HbA1c Analysis
- NGSP & IFCC Certified
- Emergency Channel Allowed

Fully automated & Easy-to-use

- No Sample Preparation
- Automatic Sample Type Recognition
- User-Friendly Touch Screen Interface

Fast & Accurate

- HbA1c Results Within 2 Minutes
- Less Than CV 2%

Compact & Reliable

- Small Footprint Reduces Space Needed
- Calibrators & Controls from the Original Manufacturer

