

# Efficient HPLC System for HbA1c Testing

## True HPLC System LD-560



**HbA1c Testing**



- Three testing modes: HbA1c, Variant\* & A2/F\*
- 20 sample loading capacity, continuous loading
- Primary tube sampling with cap piercing facility
- Inbuilt sample barcode reader with LIS connectivity
- On screen reagents Inventory & Alarms

★ Coming Soon: Variant & A2/F

# LD-560

## HPLC System for HbA1c Testing

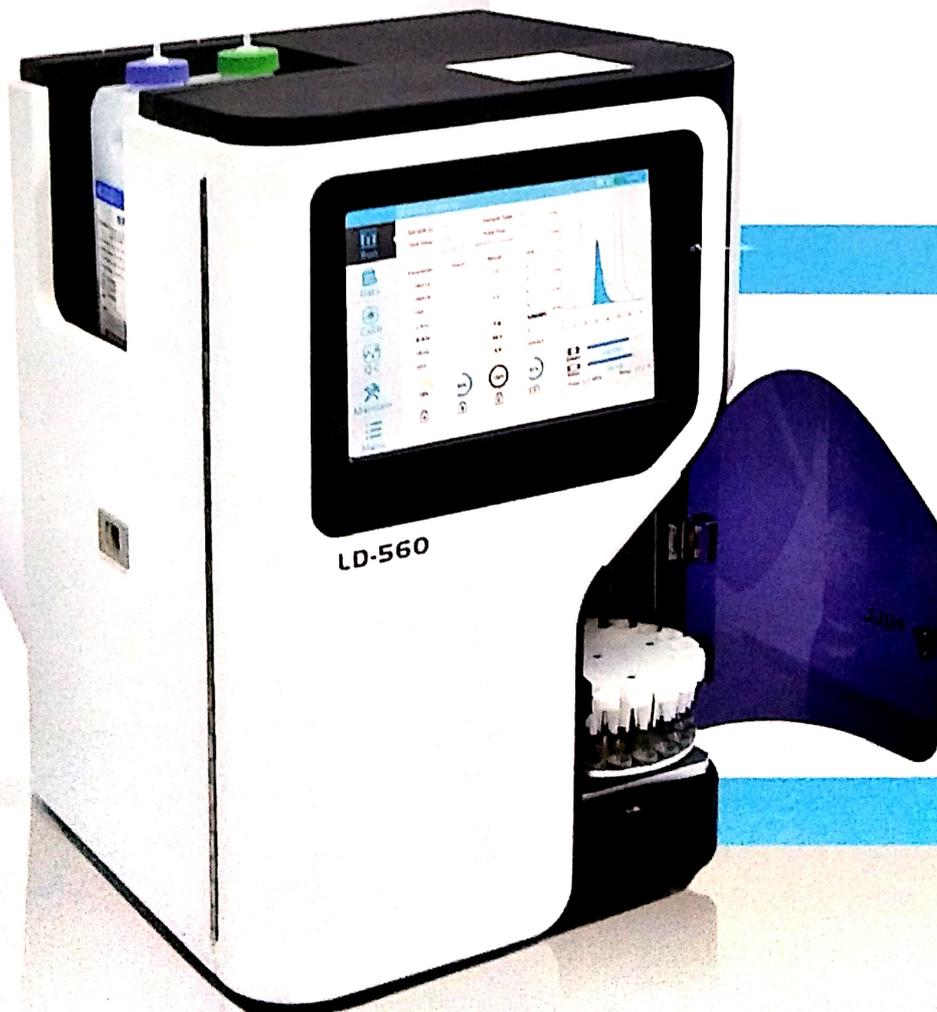
Proven golden standard method for HbA1c testing

Fast: 90 seconds per test

CV < 2%

Large size touch screen for friendly interface

Most cost-effective



### FACTS ABOUT DIAB

The number of patients with diabetes increased from 2007 to 2014, with an estimated 8.5% increase in the year 2014.

In 2014, 8.5% of adults (above age 18) globally had diabetes. In the United States, the rate of diabetes is growing faster in the United States, becoming the major cause to blindness, kidney failure, and lower limb amputation.

In 2012, 1.5 million of cases of death had direct relation to diabetes. In 2012, 1.5 million of cases of death had direct relation to diabetes. Death was related with high level of blood sugar. Half of the deaths happened before their age 70.

According to WHO, diabetes would become the 7th leading cause of death globally by 2030. Glycated Hemoglobin (Hemoglobin A1c, or HbA1c) measurement by High Performance Liquid Chromatography (HPLC) method is the gold standard for diagnosis, and treatment assessment. Every patient with diabetes should have HbA1c tested for 2-4 times annually. As the education goes on, the importance of HbA1c testing has been increasing.



## HPLC

- The most recognized principle for HbA1c testing
- CV < 2%



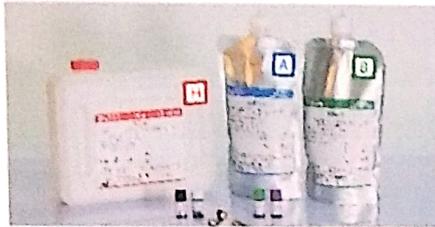
## Full Automation

- Autoloader for 20 tubes
- Automatically recognizing sample type, and switching the testing mode
- Just one click to start testing



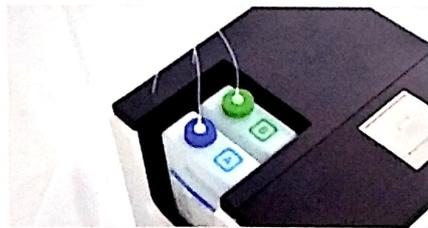
## Smart System

- Robust computing system
- Automatic scanning of barcode
- Automatic sample type recognition
- Reagents level alarm



## Quality & Performance

- IFCC and NGSP certification
- Control & Calibrators from the original manufacturer



## Convenient Operation

- Auto washing for self maintenance at startup
- 10" LCD touch screen to provide rich information
- Easy to change reagents



# DIABETES

increased from 108 million in the year 1980 to 422 million

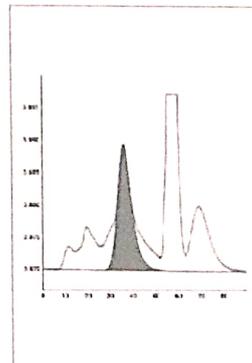
globally has diabetes, and in 1980, this rate was faster in the under-developed countries. Diabetes has complications, kidney failure, heart attack, stroke, and lower limb

had direct relation with diabetes; another 2.2 million of blood sugar. Half of the death with high level of blood sugar

become the 7th cause of death by 2030.

HbA1c, or HbA1c as abbreviation) testing by High Performance Liquid Chromatography (HPLC) method is the golden standard for diabetes management. Every patient with diabetes is advised to have their HbA1c tested. As the education to both the professionals and the patients, HbA1c testing has been widely accepted and acknowledged.

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ID: J094159260		I-7	
<b>HbA1c:</b>	<b>33</b>	<b>mmol/mol</b>	
<b>HbA1c:</b>	<b>5.2</b>	<b>%</b>	
<b>HbF:</b>	<b>1.2</b>	<b>%</b>	
<b>HbA1a</b>	<b>Area</b>	<b>%</b>	
<b>HbA1b</b>	<b>0.1</b>	<b>1.1</b>	
<b>HbF</b>	<b>0.1</b>	<b>1.9</b>	
<b>HbF</b>	<b>0.1</b>	<b>1.2</b>	
<b>LAlc</b>	<b>0.1</b>	<b>1.1</b>	
<b>SAlc</b>	<b>0.4</b>	<b>5.3</b>	
<b>HbA0</b>	<b>6.9</b>	<b>89.4</b>	
<b>Total Area</b>	<b>7.7</b>		



# SPECIFICATIONS

Model	LD-560
Method	HPLC (High Performance Liquid Chromatography)
Parameters	HbA1c, HbF, HbA1a, HbA1b, HbA0; HbA2 (optional)*
Test Speed	90 seconds per test
Wavelength	420nm
Sample Type	Whole Blood, Pre-diluted blood
Autoloader Capacity	20 tubes
Reagents Kit	Eluent A, Eluent B, Eluent C* Hemolysis, Chromatography Column
Precision	CV < 2%
Column Capacity	3000 tests
Report Range	3-18%
Working Condition	Temperature: 15-30 °C Humidity: 30-85%
Voltage	100-240VA
Frequency	50/60Hz
Dimensions	378mm×380mm×510mm

\* Due to continuous upgradation features and color subject to change without prior notice.



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