

SPECIFICATIONS

Model	LD-600	Precision	CV < 2%
Method	HPLC (High Performance Liquid Chromatography)	Column Capacity	3000 tests
Parameters	HbA1c, HbF, HbC, HbA1a, HbA1b, HbA0; HbA2 (optional)	Report Range	3-18%
Test Speed	65 seconds per test	Working Condition	Temperature: 15-30°C
Wavelength	Dual, 420/600nm		Humidity: 30-85%
Sample Type	Whole Blood, Pre-diluted blood	Voltage	100-240VA
Autoloader Capacity	110 tubes, continuous loading for more testing	Frequency	50/60Hz
Reagents Kit	Buffer A, Buffer B, Hemolysis, Chromatography Column	Dimensions	760mm×600mm×570mm



LD-600

HPLC System for HbA1c Testing

NGSP & IFCC Certified



Certificate of Traceability

Manufacturer Certification


This certifies that **Shenzhen Labnovation Technologies, Inc.**, using **HPLC LD-600, LD-620** 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: **Reference Material Institute for Clinical Chemistry Standards (ReCCS) ASRL#1**

The system evaluated was:

Instrument: LD-600, LD-620	Calibrator Lot: 20170703, 20170703	Column Lot #: 20170803
Reagent Lot: 20170803, 20170803, 20170803	Calibrator Assigned Values: 5.3%, 10.4%	

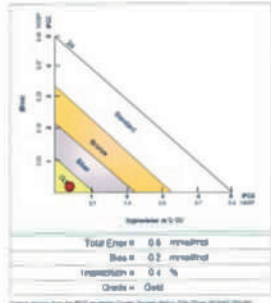
Date of Certification: **November 1, 2017** Certification Expires: **November 1, 2018**

Daniel Sacks *Randee R. Little PhD.* *Wioleta G. Rancova, Ph.D.*
 NGSP Steering Committee Chair NGSP Network Coordinator SRL director/ supervisor



Certificate

Labnovation Technologies, Inc.
 using
HPLC/ Automated HbA1c Analyzer LD-600
 participated in the IFCC HbA1c Certification Programme to demonstrate traceability to the IFCC Reference Measurement Procedure and performed as shown below.



Total Error = 0.8 %
 Bias = 0.2 %
 Imprecision = 0.4 %
 Checks = Good

Date of Commission: 01 January 2018 Date of Expiry: 01 January 2019
Dr. C.W. Wehking
 IFCC Network Coordinator

HPLC System

For Quick HbA1c Testing

With Efficiency



BYKARALAR

— INNOVATIONAL SOLUTIONS —

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FACTS ABOUT DIABETES

The number of patients with diabetes increased from 108 million in the year 1980 to 422 million in the year 2014. In 2014, 8.5% of adults (above age 18) globally has diabetes, and in 1980, this rate was 4.7%. The rate of diabetes is growing faster in the under-developed countries. Diabetes has become the major cause to blindness, kidney failure, heart attack, stroke, and lower limb amputation. In 2012, 1.5 million of cases of death had direct relation with diabetes; another 2.2 million of death was related with high level of blood sugar. Half of the death with high level of blood sugar happened before their age 70. According to WHO, diabetes would become the 7th cause of death by 2030. Glycated Hemoglobin (Hemoglobin A1c, or HbA1c as abbreviation) testing by High Performance Liquid Chromatography (HPLC) method is the golden standard for diabetes diagnosis, and treatment assessment. Every patient with diabetes is advised to have their HbA1c tested for 2-4 times annually. As the education to both the professionals and the patients goes on, the importance of HbA1c testing has been widely accepted and acknowledged.

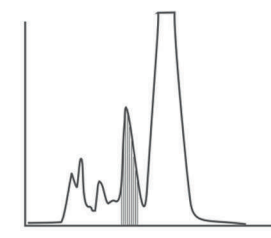


LD-600 HPLC System for HbA1c Testing

- Proven golden standard method for HbA1c testing
- Fast: 65 seconds per test
- Large capacity autoloader for 110 tubes, and one STAT for emergency
- Control & Calibrators by original manufacturer
- IFCC and NGSP certifications
- CV<2%
- Large size touch screen for rich information and easy operation

LABNOVATION

LD600 V03.06			
2017-10-10	18:06	1-7	
null	70		
HbA1c:	33	mmol/mol	
HbA1c:	5.2	%	
HbF :	1.2	%	
	Sec	Area	%
HbA1a	29s	0.1	1.1
HbA1b	31s	0.1	1.9
HbF	34s	0.1	1.2
LA1c	39s	0.1	1.3
SA1c	48s	0.4	5.2
HbA0	65s	6.9	89.4
Total Area Value		7.7	



Proven golden standard method: HPLC

- Avoided interference by HbF and other hemoglobin variants
- CV<2%



Full Automation

- Autoloader for 110 tubes, continuous loading for more testing
- Automatically recognizing sample type, and switching the testing method
- STAT for emergency testing



Smart System

- Robust computing system
- Automatic scanning of barcode
- Integrated protocols for bi-directional data communication



Convenient Operation

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



Quality & Performance

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