

CALIBRATION CERTIFICATE

Calibration of the LIFOTRONICS-H9 (HPLC Analyzer) has been carried out as per the recommendations of the principle company SHENZHEN LIFOTRONIC TECHNOLOGY CO., LTD, China.

Customer Name & Address:	
REDCLIFF PATHOLOGY LAB, SCHEME NO.	Installation Date: 07-07-2022
140, BUILDING NO. 5, ANANDVAN	Calibration Date: 07-07-2022
BUILDING, INDORE – 462061.	Calibration Due Date: 06-07-2023

Serial No:	IA2B00001124
------------	--------------

Software Version Information:

Sensor Type:	A1	
System Version:	01.00.21-S	
MCU1 Version:	01.00.02-Н	
MCU2 Version:	01.00.01-G	
User Interface version:	B8	

Monitoring Information:

Test Mode	96s
HP Pump PPS	103
Column Temp	40
H9 Temp	25
LED	1910
ADC 415	24518
ADC 500	17944
ABS	5641





INSTRUMENT CALIBRATION DATAS:

System Parameter:

2D Arm Settings:

X-axis	Value
X Axis Rack Routine (50 – 200mm)	116
X Axis ST Routine (50 – 200mm)	147

Y-axis	Value
Z Axis Blood Collection Tube Routine (10-250mm)	117
Z Axis Diluted Tube Routine (10-250mm)	47
Z Axis Diluted Cup Routine (10-250mm)	200
Z Axis Press Cap Routine (10-100mm).	50

Parameter Settings:

Elution Parameter Setting.	Value	
HbA1a Start Time (1 – 250s)	07	
HbA1a End Time (1 – 250s)	14	
HbA1b Start Time $(1 - 250s)$	14	
HbA1b End Time $(1 - 250s)$	18	
HbF Start Time (1 − 250s)	18	
HbF End Time $(1 - 250s)$	23	
La1c Start Time $(1 - 250s)$	23	
La1c End Time (1 – 250s)	28	
HbA1c Start Time (1 – 250s)	34	
HbA1c End Time (1 – 250s)	47	
HbA0 Start Time $(1 - 250s)$	50	
HbA0 End Time (1 – 250s)	90	

Variant Parameter Setting.	Value
HbA2 Start Time $(1 - 250s)$	200
HbA2 End Time (1 – 250s)	239
HbD Start Time $(1 - 250s)$	240
HbD End Time $(1 - 250s)$	259
HbS Start Time $(1 - 250s)$	260
HbS End Time $(1-250s)$	289
HbC Start Time (1 – 250s)	290
HbC End Time $(1 - 250s)$	310



Pressure Settings:

Parameters	Value
High Pressure Limit (10-15MPa)	12
Low Pressure Limit (10-15MPa)	3
N.P (%)	65
N.P <	60
HP Pump Stepping Value (100-200ms/step)	103

Flow cell Adjustment:

Parameters	Value
DAC_LED	2000
Gain 415	24310
Gain 500	17709

Reagent Setup:

Parameters	Value
Reagent Version	A1
Test Mode	96s
Column Version	A2

Matrix Labs. Representatives: SATHISH KUMAR G

Date: 07-07-2022

A. Performed By:

Instrument has been checked thoroughly and ensured the performance of the instrument and can be released for the routine operation.

G Sathish

SATHISH KUMAR G

(Manager – Field Support Signature & Name)

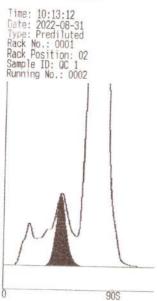
B. Verified By:

Instrument has been verified & released for the routine operation.

A. RAVIKUMAR

(G.M.-Engineering Services Signature & Name)

HbA1c



Peak HbA1a HbA1b HbF LA1c HbA1c HbA0 V_Win Time ABS 12 0.0018 16 0.0039 22 0.0034 39 0.0087 41 0.0088 68 0.2698 0 0.0000 Area 0.065 0.170 0.212 0.164 1.170 19.203 0.000 Area% 0.3 0.8 1.0 0.7 5.9* 91.3 0.0

Total Area: 20.984

HbA1c	5.9% *	NGSP
НьА1с	40.9mmol/mol	IFCC
eAG	6.7mmo1/1	ADA
eAG	122.2mg/dl	ADA

Lab Name:

Lab Address:

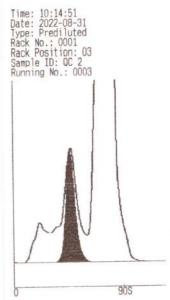
Lab Telephone:

2022-08-30 20:19:45

Error 12:

Pressure Too Low!

HbA1c



Peak HbA1a HbA1b HbF LA1c HbA1c HbA0	12 16 22 39 41 68	ABS 0.0017 0.0037 0.0040 0.0133 0.0139 0.2186	Area 0.059 0.160 0.227 0.180 1.635 15.263	Area% 0.3 0.9 1.2 1.0 10.0 86.6
V Win		0.0000	0.000	0.0

Total Area: 17.524

HbA1c	10.0% ↑	NGSP
HbA1c	85.7mmol/mol	IFCC
eAG	13.3mmol/1	ADA
eAG	239.5mg/dl	ADA

Reference Range:4.0%-5.7% Operator:

Lab Name:

Lab Address:

Lab Telephone: