

CALIBRATION CERTIFICATE

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

Customer Name & Address:

**REDCLIFFE LIFE TECH PVT.LTD,
M-16, Old DLF Road, Near SBI Bank,
Sec-14, Gurugam.**

Installation Date : 06.12.2023
Calibration Date : 06.12.2023
Calibration Due Date: 05.12.2024

Instrument Serial No:

IA2B00002649

Software Version Information:

System Version:	01.00.22-S
MCU1 Version:	01.00.02-H
MCU2 Version:	01.00.01-G

Monitoring Information:

Test Mode	96s-HbA1C
HP Pressure pump stepping Value	105
Column Temp	42
H9 Temp	41
ADC 415	25300
ADC 500	18100
ADC	7226

INSTRUMENT CALIBRATION DATAS:

Global Data:

System Parameters:

2D Arm Parameters:

X-axis	Value
Rack Routine(50-200mm)	116
ST Routine(50-200mm)	148

Z-axis	Value
Blood Tube Routine(10-250mm)	115
Diluted Tube Routine(10-250mm)	46
Diluting Cup Routine(10-250mm)	200
Press Cap Routine(10-100mm)	50

Hardware Parameter Settings:

High Pressure Pump Stepping value	105
Distance from Rack Detector to 1 st Tube(0-50mm)	3
Distance Between 2 Consecutive Tubes(150-250mm)	197

Operation Parameters:

Test Mode	96s-HbA1C
Reagent Version	A1
HbA1C Area Ratio	100
Variant Ratio Limit	10

Elution Parameters:

Peaks	Start Time	End Time
HbA1a	7	14
HbA1b	14	18
HbF	18	23
LA1C	23	28
HbA1C	34	47
HbA0	50	90

Pressure Settings:

Parameters	Value
Pressure (Mpa) >	3
Pressure (Mpa) <	12
HP Pump(PPS)	105

Flow cell Adjustment:

Parameters	Value
DAC_LED	1960
Gain 415	25300
Gain 500	18100

Reagent Setup:

Parameters	Value
Reagent Version	SX
Test Mode	96s-HbA1C

Matrix Labs. Representatives: Date:
06.12.2023

A. Performed By

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

JAWHAR RAJ L
(Manager – Customer Support Signature & Name)

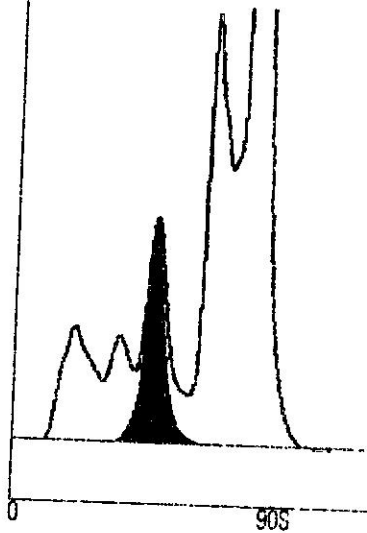
B. Verified By:

Instrument has been verified & released for the routine operation.


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

HbA1c

Time: 12:58:10
 Date: 2024-03-06
 Type: QC
 Rack No.: 0001
 Rack Position: 03
 Sample ID: 9SX1230080
 Running No.: 0003



Peak	Time	ABS	Area	Area%
HbA1a	12	0.0015	0.051	0.4
HbA1b	16	0.0050	0.214	1.7
HbF	22	0.0043	0.254	2.1
LA1c	40	0.0109	0.164	1.3
HbA1c	42	0.0108	1.177	10.0
HbA0	70	0.1923	10.043	84.5
V_Win	0	0.0000	0.000	0.0

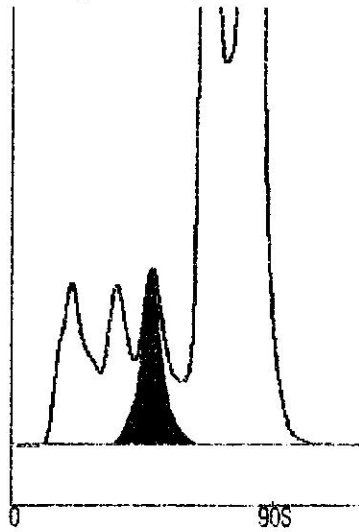
Total Area: 11.903

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

Reference Range: 4.0%-5.7%
 Operator: *[Signature]*
 6/3/24

HbA1c

Time: 12:56:31
 Date: 2024-03-06
 Type: QC
 Rack No.: 0001
 Rack Position: 02
 Sample ID: 9SX1230080
 Running No.: 0002



Peak	Time	ABS	Area	Area%
HbA1a	12	0.0020	0.072	0.4
HbA1b	16	0.0068	0.294	1.7
HbF	22	0.0049	0.322	1.8
LA1c	40	0.0087	0.201	1.1
HbA1c	42	0.0087	1.077	5.6
HbA0	70	0.2732	15.246	89.4
V_Win	0	0.0000	0.000	0.0

Total Area: 17.212

HbA1c	5.6% -	NGSP
HbA1c	37.7mmol/mol	IFCC
eAG	6.3mmol/l	ADA
eAG	113.6mg/dl	ADA

Reference Range: 4.0%-5.7%
 Operator: *[Signature]*
 6/3/24