

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 LIFETECH PVT LTD
#31/82A-9-B, RASMI NAGAR NEAR BHU,
EMERGENCY GATE, LANKA,
VARANASI- 221 005.

Installation Date : 16.07.2022
Calibration Date : 16.07.2022
Calibration Due Date: 15.07.2023

Instrument Serial No: IA2B00001118

Software Version Information:

System Version:	01.00.21-S
MCU1 Version:	01.00.01-H
MCU2 Version:	01.00.01-G

Monitoring Information:

Test Mode	96s-HbA1C
HP Pressure pump stepping Value	95
Column Temp	38
H9 Temp	42
ADC 415	25300
ADC 500	18100
ADC	7147

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)	116
Diluted Tube Routine(10-250mm)	48
Diluting Cup Routine(10-250mm)	200
Press Cap Routine(10-100mm)	50

Hardware Parameter Settings:

High Pressure Pump Stepping value	95
Distance from Rack Detector to 1 st Tube(0-50mm)	3
Distance Between 2 Consecutive Tubes(150-250mm)	196

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	35	45
HbA0	50	90

Pressure Settings:

Parameters	Value
Pressure (Mpa) >	3
Pressure (Mpa) <	12
HP Pump(PPS)	95



Flow cell Adjustment:

Parameters	Value
DAC_LED	2000
Gain 415	25300
Gain 500	18100

Reagent Setup:

Parameters	Value
Reagent Version	SX
Test Mode	90s-HbA1C

Matrix Labs. Representatives:

Date: 16.07.2022

A. Performed By:

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

M.Parasuraman

PARASURAMAN M

(Manager – Customer Support Signature & Name)

B. Verified By:

Instrument has been verified & released for the routine operation.

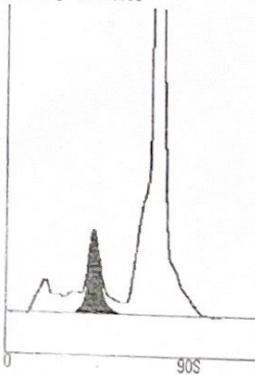
A. Ravikumar

A.RAVIKUMAR

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

HbA1c

Time: 15:56:16
 Date: 2022-11-04
 Type: QC
 Rack No.: 0001
 Rack Position: 03
 Sample ID: h8sx220072
 Running No.: 0003



Peak	Time	ABS	Area	Area%
HbA1a	12	0.0011	0.038	0.7
HbA1b	16	0.0025	0.097	1.8
HbF	22	0.0015	0.060	1.4
LA1c	36	0.0058	0.069	1.3
HbA1c	38	0.0057	0.572	10.5
HbA0	64	0.0976	4.491	84.3
V_Win	0	0.0000	0.000	0.0

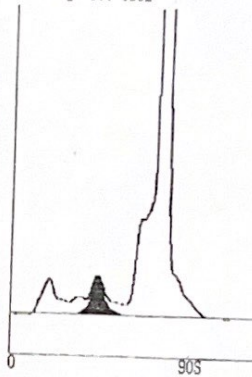
Total Area: 5.347

HbA1c	10.5% ↑	NGSP
HbA1c	91.2mmol/mol	IFCC
eAG	14.1mmol/l	ADA
eAG	253.8mg/dl	ADA

Reference Range:4.0%-6.1%
 Operator:

HbA1c

Time: 15:54:36
 Date: 2022-11-04
 Type: QC
 Rack No.: 0001
 Rack Position: 02
 Sample ID: h8sx220072
 Running No.: 0002



Peak	Time	ABS	Area	Area%
HbA1a	12	0.0011	0.035	0.7
HbA1b	16	0.0027	0.101	2.1
HbF	22	0.0011	0.067	1.4
LA1c	36	0.0028	0.052	1.1
HbA1c	38	0.0028	0.320	6.3
HbA0	64	0.0878	4.122	88.4
V_Win	0	0.0000	0.000	0.0

Total Area: 4.697

HbA1c	6.3% ↑	NGSP
HbA1c	45.3mmol/mol	IFCC
eAG	7.4mmol/l	ADA
eAG	133.6mg/dl	ADA

Reference Range:4.0%-6.1%
 Operator:

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