

CALIBRATION CERTIFICATE

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

Customer Name & Address: REDCLIFFE LAB Plot.No:144/C, Groundfloor, Chandrasekharpur, Bhubaneswar, Odisha - 751016.	Installation Date : 15.07.2022 Calibration Date : 15.07.2022 Calibration Due Date: 16.07.2023
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Serial No:	IA2B00001128
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Software Version Information:

System Version:	01.00.21-S
MCU1 Version:	01.00.10-S
MCU2 Version:	01.00.01-G

Monitoring Information:

	96s-HbA1c
Test Mode	97
HP Pressure pump stepping Value	42
Column Temp	25
H9 Temp	66
N.P.	24966
ADC 415	17665
ADC 500	7201
ADC	

INSTRUMENT CALIBRATION DATAS:

Global Data:

System Parameters:

2D Arm Parameters:

X-axis	Value
Rack Routine(50-200mm)	117
ST Routine(50-200mm)	148

Z-axis	Value
Blood Tube Routine(10-250mm)	116
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	97
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	SX
E/D/S/C Peak ABS Limit	100
Variant Ratio Limit	10

Elution Parameters:

Peaks	Start Time	End Time
HbA1a	7	14
HbA1b	14	23
HbF	18	23
LA1C	23	28
HbA1C	34	47
P3	65	90

Pressure Settings:

Parameters	Value
N.P(%)	66
N.P.(s)	60
Pressure (Mpa) >	3
Pressure (Mpa) <	12
HP Pump(PPS)	115

Flow cell Adjustment:

Parameters	Value
DAC_LED	1930
Gain 415	24963
Gain 500	17665

Reagent Setup:

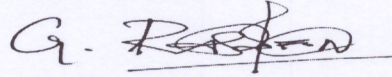
Parameters	Value
Reagent Version	SX
Test Mode	Variant 2

Matrix Labs. Representatives:

Date: 17.07.2022

A. Performed By:

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

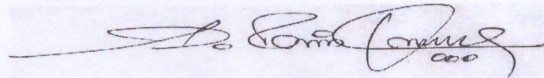


G.RAYAPPAN

(Sr. Service Engineer – Customer Support Signature & Name)

B. Verified By:

Instrument has been verified & released for the routine operation.

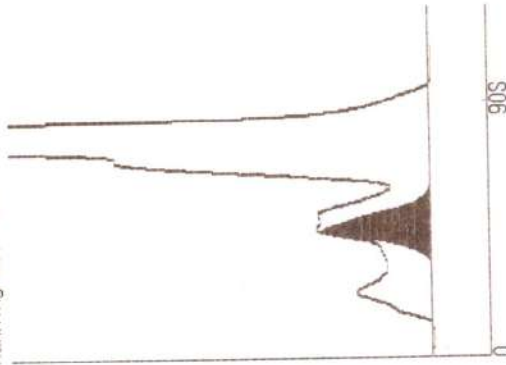


A.RAVIKUMAR

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

HbA1c

Time: 12:01:33
Date: 2022-08-27
Type: QC
Rack No.: 0001
Rack Position: 03
Sample ID: H9SX220072
Running No.: 0003



Peak	Time	ABS	Area	Area%
HbA1a	12	0.0008	0.027	0.2
HbA1b	16	0.0025	0.110	1.1
HbF	22	0.0035	0.193	1.9
LA1c	37	0.0056	0.126	1.3
HbA1c	38	0.0052	0.868	9.7
HbA0	66	0.0989	8.407	85.8
V_Win	0	0.0000	0.000	0.0

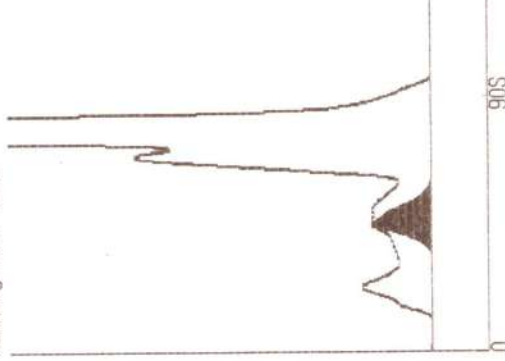
Total Area: 9.731

HbA1c	9.7%	↑	NGSP
HbA1c	82.5	mmol/mol	IFCC
eAG	12.8	mmol/l	ADA
eAG	230.9	mg/dl	ADA

Reference Range: 4.0%-6.1%
Operator:

HbA1c

Time: 11:59:52
Date: 2022-08-27
Type: QC
Rack No.: 0001
Rack Position: 02
Sample ID: H9SX220072
Running No.: 0002



Peak	Time	ABS	Area	Area%
HbA1a	12	0.0006	0.021	0.2
HbA1b	16	0.0022	0.096	1.2
HbF	22	0.0029	0.170	2.1
LA1c	38	0.0032	0.093	1.1
HbA1c	40	0.0032	0.492	6.0
HbA0	67	0.0829	7.083	89.4
V_Win	0	0.0000	0.000	0.0

Total Area: 7.957

HbA1c	6.0%	-	NGSP
HbA1c	42.0	mmol/mol	IFCC
eAG	6.9	mmol/l	ADA
eAG	125.1	mg/dl	ADA

Reference Range: 4.0%-6.1%
Operator: