

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, LANDMARK COMPLEX, SHOP NO-203, 2 ND FLOOR,100 FEET RD, NEAR SEEMA HALL,AHMEDABAD,GUJARAT- 380015.	Installation Date : 25-11-2022 Calibration Date : 25-11-2022 Calibration Due Date: 25-11-2023
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Serial No:	IA2B00001391
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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	96 s
HP Pressure pump stepping Value	98
Column Temp	41
H9 Temp	34.9
N.P.	66
ADC 415	25012
ADC 500	18124
ADC	5926

INSTRUMENT CALIBRATION DATAS:

Global Data:

System Parameters:

2D Arm Parameters:

X-axis	Value
Rack Routine(50-200mm)	115
ST Routine(50-200mm)	148

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

Hardware Parameter Settings:

High Pressure Pump Stepping value	115
Distance from Rack Detector to 1 st Tube(0-50mm)	4
Distance Between 2 Consecutive Tubes(150-250mm)	196

Operation Parameters:

Test Mode	Variant 2
Reagent Version	SX
E/D/S/C Peak ABS Limit	51
Variant Ratio Limit	10

Elution Parameters:

Peaks	Start Time	End Time
HbA1a	9	15
HbA1b	15	25
HbF	25	35
LA1C	35	45
HbA1C	45	65
P3	65	90

Variant Parameters:

Peaks	Start Time	End Time
P4	90	110
HbA0	110	165
HbA2	165	220
HbE	220	238
HbD	238	254

HbS	254	290
HbC	290	330

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	2000
Gain 415	25241
Gain 500	18652

Reagent Setup:

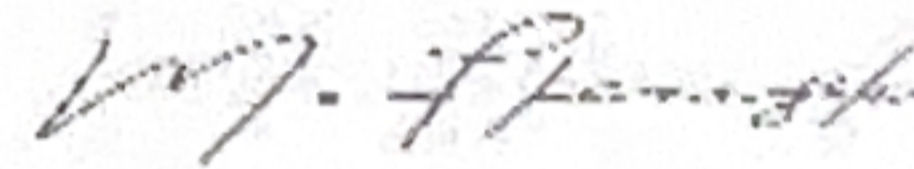
Parameters	Value
Reagent Version	SX
Test Mode	Variant 2

Representatives: M HARISH

Date: 25-11-2022

A. Performed By:

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



M HARISH
(SR SERVICE ENGINEER-MATRIXLABS)

B. Verified By:

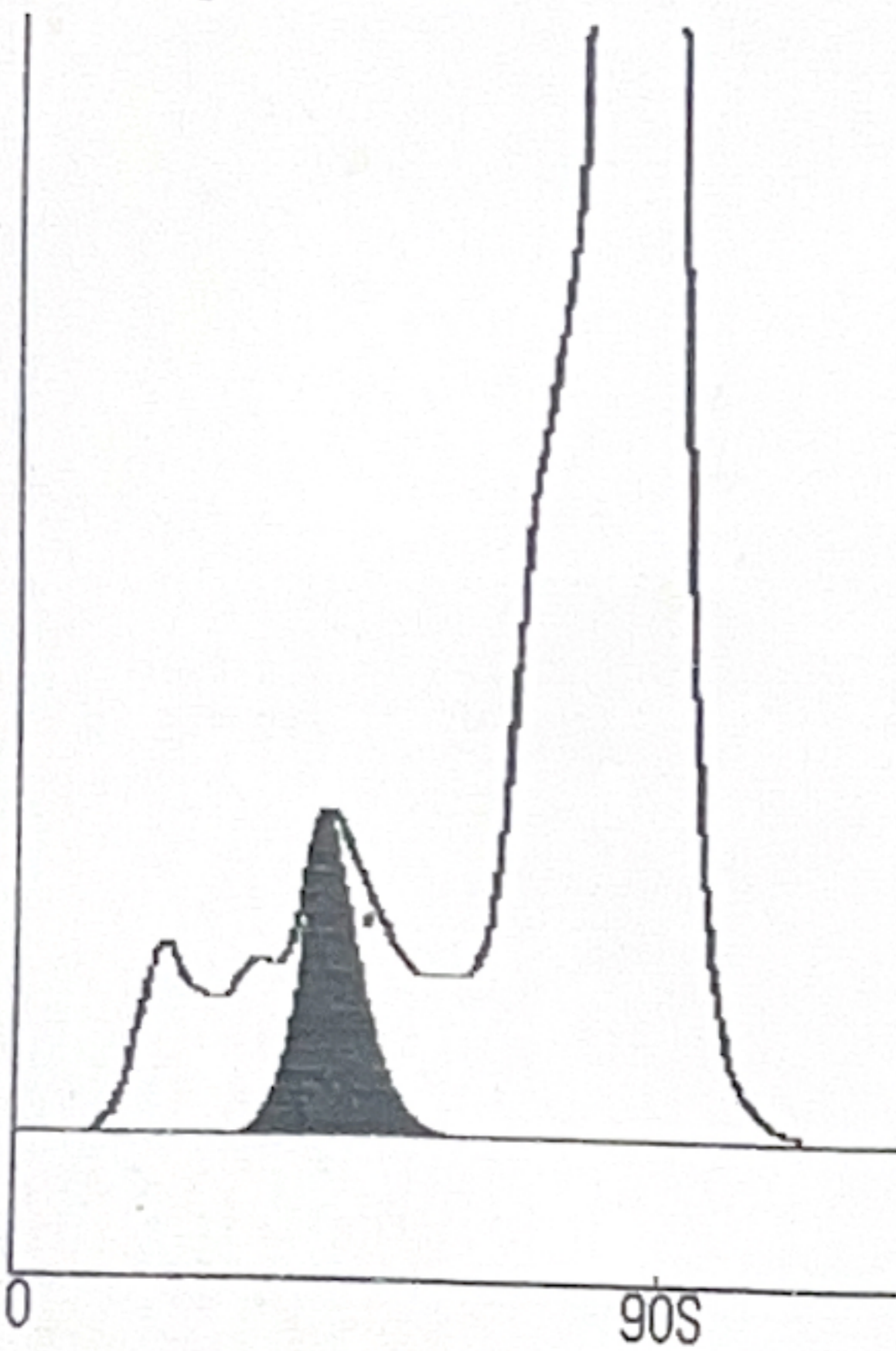
Instrument has been verified & released for the routine operation.



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

HbA1c

Time: 08:49:36
 Date: 2023-04-19
 Type: QC
 Rack No.: 0001
 Rack Position: 02
 Sample ID: 85851
 Running No.: 0002



Peak	Time	ABS	Area	Area%
HbA1a	12	0.0006	0.022	0.1
HbA1b	16	0.0032	0.129	0.8
HbF	22	0.0029	0.169	1.0
LA1c	36	0.0066	0.142	0.9
HbA1c	38	0.0063	0.903	5.5
HbA0	72	0.1912	14.159	91.7
V_Win	0	0.0000	0.000	0.0

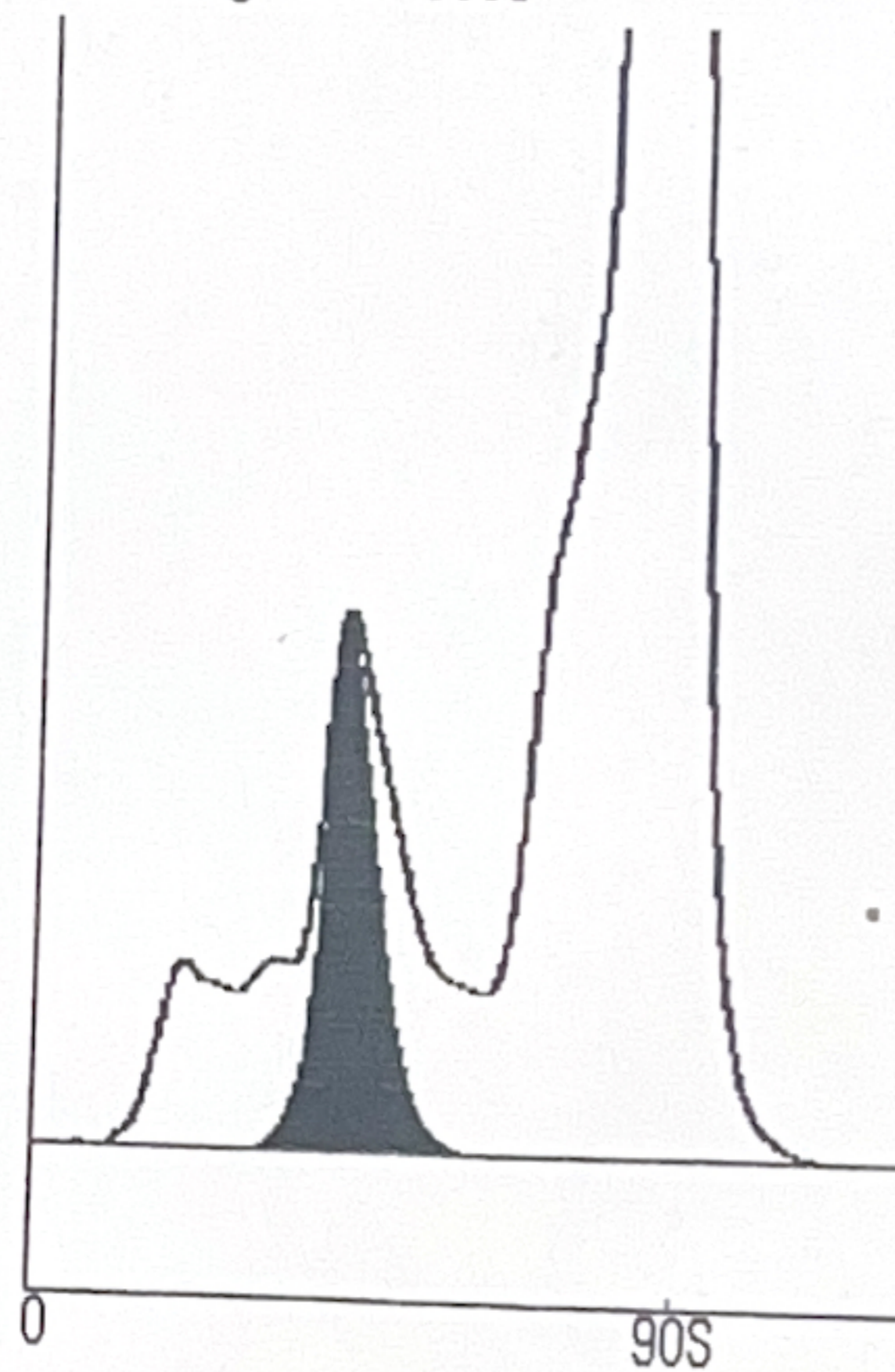
Total Area: 15.524

HbA1c	5.5% -	NGSP
HbA1c	36.6mmol/mol	IFCC
eAG	6.1mmol/l	ADA
eAG	110.7mg/dl	ADA

Reference Range: 4.0%-6.1%
 Operator:

HbA1c

Time: 08:51:16
 Date: 2023-04-19
 Type: QC
 Rack No.: 0001
 Rack Position: 03
 Sample ID: 85852
 Running No.: 0003



Peak	Time	ABS	Area	Area%
HbA1a	12	0.0005	0.020	0.1
HbA1b	16	0.0031	0.123	0.8
HbF	22	0.0033	0.180	1.2
LA1c	36	0.0108	0.163	1.1
HbA1c	38	0.0101	1.338	9.1
HbA0	72	0.1667	12.356	87.7
V_Win	0	0.0000	0.000	0.0

Total Area: 14.180

HbA1c	9.1% ↑	NGSP
HbA1c	75.9mmol/mol	IFCC
eAG	11.8mmol/l	ADA
eAG	213.8mg/dl	ADA

Reference Range: 4.0%-6.1%
 Operator:

Handwritten signature and date:
 19/4/2023