

CALIBRATION CERTIFICATE

Calibration of the LIFOTRONICS-H9 (HbA1cAnalyzer) has been carried out as per the recommendations of the principle company SHENZHEN LIFOTRONIC TECHNOLOGY CO.,LTD, China.

| | |
|--|--|
| Customer Name& Address: KRSNAA DIAGNOSTICS LTD, C/O CIVIL HOSPITAL, Pinjore-Swarghat Rd, New NALAGARH, Himachal Pradesh-174101 | InstallationDate:01.11.2022 CalibrationDate:01.11.2022 CalibrationDueDate:01.11.2023 |
|--|--|

| | |
|------------|--------------|
| Serial No: | IA2B00002633 |
|------------|--------------|

Software Version Information:

| | |
|-----------------|------------|
| System Version: | 01.00.22-S |
| MCU1Version: | 01.00.02-H |
| MCU2Version: | 01.00.01-G |

Monitoring Information:

| | |
|---------------------------------|-------|
| Test Mode | 90s |
| HP Pressure pump stepping Value | 105 |
| Column Temp | 40 |
| H9Temp | 28 |
| N.P. | 61 |
| ADC415 | 25230 |
| ADC500 | 17100 |
| ADC | 6200 |

INSTRUMENT CALIBRATION DATAS:

Global Data:

System Parameters:

2D Arm Parameters:

| X-axis | Value |
|------------------------|-------|
| Rack Routine(50-200mm) | 116 |
| SI Routine(50-200mm) | 147 |

| Z-axis | Value |
|--------------------------------|-------|
| Blood Tube Routine(10-250mm) | 116 |
| 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 | 104 |
| Distance from Rack Detector to 1 st Tube(0-50mm) | 4 |
| Distance Between 2 Consecutive Tubes(150-250mm) | 196 |

Operation Parameters:

| | |
|------------------------|-----|
| Test Mode | 96s |
| Reagent Version | A1 |
| E/D/S/C Peak ABS Limit | 50 |
| Variant Ratio Limit | 10 |

Elution Parameters:

| Peaks | Start Time | End Time |
|-------|------------|----------|
| HbA1a | 7 | 14 |
| HbA1b | 14 | 18 |
| HbF | 18 | 23 |
| LA1C | 23 | 28 |
| HbA1C | 32 | 50 |
| HbA0 | 50 | 90 |

Variant Parameters:

| Peaks | Start Time | End Time |
|-------|------------|----------|
| HbA2 | 200 | 239 |
| HbD | 240 | 259 |
| HbS | 260 | 289 |
| HbC | 290 | 310 |

Pressure Settings:

| Parameters | Value |
|-----------------|-------|
| N.P(%) | 63 |
| N.P.(s) | 60 |
| Pressure (Mpa)> | 4 |
| Pressure (Mpa)< | 12 |
| HP Pump(PPS) | 115 |

Flowcell Adjustment:

| Parameters | Value |
|------------|-------|
| DAC_LED | 1915 |
| Gain415 | 25230 |
| Gain500 | 17100 |

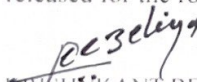
Reagent Setup:

| Parameters | Value |
|-----------------|-------|
| Reagent Version | A1 |
| Test Mode | 96s |

MatrixLabs.
Representatives:
Date:01.11.2022

A. Performed By:

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


KRISHNKANT BELIYA
(Engineer–Customer Support Signature Name)

Redcliffe Lifotech Pvt. Ltd.
C/o Aranya Diagnostic
Infront of City Mall Sangan Traha
New World Rowie (M.P) 486001
No. 83-835-075

B. Verified By:

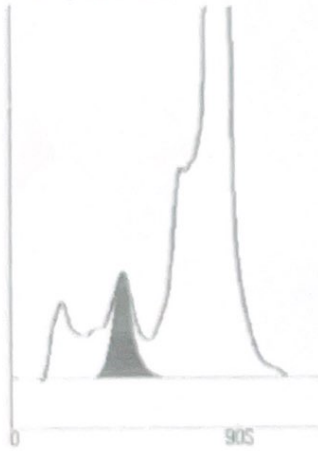
Instrument has been verified& released for the routine operation.



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

HbA1c

Time: 00:04:19
Date: 2022-11-30
Type: QC
Rack No.: 0001
Rack Position: 02
Sample ID: 95X1220010
Running No.: 0002



| Peak | Time | ABS | Area | Area% |
|-------|------|--------|--------|-------|
| HbA1a | 12 | 0.0005 | 0.021 | 0.1 |
| HbA1b | 16 | 0.0041 | 0.170 | 1.4 |
| HbF | 22 | 0.0028 | 0.175 | 1.4 |
| LA1c | 37 | 0.0060 | 0.128 | 1.0 |
| HbA1c | 39 | 0.0063 | 0.784 | 6.0 |
| HbA0 | 71 | 0.1602 | 10.742 | 90.1 |
| V_Win | 0 | 0.0000 | 0.000 | 0.0 |

Total Area: 12.020

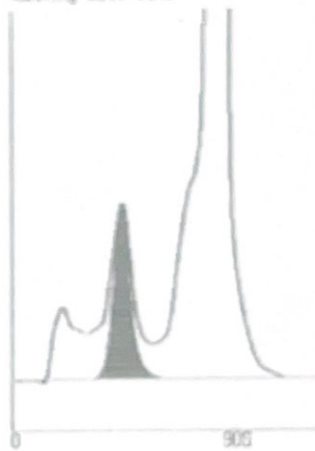
| | | |
|-------|--------------|------|
| HbA1c | 6.0% ↑ | NGSP |
| HbA1c | 42.0mmol/mol | IFCC |
| eAG | 6.9mmol/l | ADA |
| eAG | 125.1mg/dl | ADA |

Reference Range: 4.0%-5.8%
Operator:

Handwritten signature

HbA1c

Time: 00:05:58
Date: 2022-11-30
Type: QC
Rack No.: 0001
Rack Position: 03
Sample ID: 95X1220010
Running No.: 0003



| Peak | Time | ABS | Area | Area% |
|-------|------|--------|-------|-------|
| HbA1a | 12 | 0.0003 | 0.020 | 0.1 |
| HbA1b | 16 | 0.0041 | 0.167 | 1.5 |
| HbF | 22 | 0.0032 | 0.185 | 1.7 |
| LA1c | 37 | 0.0100 | 0.142 | 1.3 |
| HbA1c | 39 | 0.0106 | 1.175 | 11.1 |
| HbA0 | 71 | 0.1337 | 8.964 | 84.3 |
| V_Win | 0 | 0.0000 | 0.000 | 0.0 |

Total Area: 10.653

| | | |
|-------|--------------|------|
| HbA1c | 11.1% ↑ | NGSP |
| HbA1c | 37.2mmol/mol | IFCC |
| eAG | 15.0mmol/l | ADA |
| eAG | 271.0mg/dl | ADA |

Reference Range: 4.0%-5.8%
Operator:

Handwritten signature