

CALIBRATION REPORT

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Details of the Under Calibration:

Calibration Certificate No: SBS/CL/20-21/00434

| Customer Name | DIA CARE DIAGNOSTICS | Customer | #2/751, |
|----------------------|-----------------------|---------------|-----------------|
| | | Address: | VEPPANAPALLI, |
| | | | KRISHNAGIRI DT, |
| | | | TAMILNADU |
| Location: | BIO CHEMISTRY | Serial No: | 61004297 |
| Description: | BIO CHEMISTRYANALYZER | Tag/Asset No: | NA |
| Make: | EMP | Date of | 25.01.2021 |
| | | Calibration: | |
| Model: | EMP-168 | Date of Due: | 24.01.2022 |

Traceability Details:

| S.No | Standard Used | Make | Model | Serial No | Validity |
|------|----------------------------|-------|--------|-----------|------------|
| 1 | Electrical Safety Analyzer | Fluke | ESA615 | 2244202 | 24.01.2022 |

Environmental Conditions and Standard Operating Procedure Details:

| Temperature | 24° C | Calibration Done at | ONSITE |
|----------------------|-------|-----------------------------|------------------|
| Humidity (40-70% RH) | 59% | Calibration Procedure No | CP-BM001-2019/ES |

REMARKS:

The above mentioned instruments has been calibrated using standard manufacturer recommended protocols, using equipments having traceability to National/ International Standards. Partial reproduction of the certificates is not permitted.

Electrical Safety Test Passed :

| Voc | / | No |
|-----|---|-----|
| 168 | | 140 |

| Electrical safety test | | | | |
|-------------------------------|------------------|-------------------------|--|--|
| Parameters Used | Measured in Test | Limits | | |
| | Gadget | | | |
| Voltage N-E | 2.6 V | < 3 V | | |
| Voltage P-E | 228V | < 230 V | | |
| Voltage P-E | 227 V | < 230 V | | |
| Maximum Current Taken by the | 0.2 | As per Manufacture | | |
| DUT | | specification | | |
| Earth Leakage Current NC | 121 μΑ | < 500 μA for B, BF, CF | | |
| Earth Leakage Current SFC | 237 μΑ | < 1000 μA for B, BF, CF | | |
| Enclosure Leakage Current NC | 5.1 μΑ | < 100 µA for B, BF, CF | | |
| Enclosure Leakage Current SFC | 5.4 μΑ | < 500 μA for B, BF, CF | | |
| Insulation Resistance M-P.E | Good | More than 100 Mohm | | |
| Insulation Resistance M-A.P | Good | More than 100 Mohm | | |
| Insulation Resistance A.P-P.E | Good | More than 100 Mohm | | |

| CALIBRATION RESUL' | <u>Γ:</u> |
|---------------------------|---------------------------------|
| | Corrective maintenance required |
| | Removed from use |
| | Acceptable for use |
| Calibration Engineer Sign | 9-10-1 |



CALIBRATION REPORT

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This is to certify that, 168-EMP Semi Automated Analyzer bearing Serial No. #61004297

Installed at DIACARE DIAGNOSTICS, VEPPANAPALLI is performing satisfactorily.

168- EMP is calibrated last on 25th January 2021 by our Service Engineer, Mr. M. BALAJI.

| Optical System Check | Dark Current | Dark Current Range | Remarks |
|-----------------------------|--------------|--------------------|---------------------|
| 340 nm | 72 | | |
| 405 nm | 78 | | |
| 450 nm | 82 | | |
| 510 nm | 81 | -200 | D 1 (1 |
| 546 nm | 83 | <200 | Dark current values |
| 578 nm | 81 | | are within range |
| 630 nm | 85 | | |
| 670 nm | 89 | | |

| Optical System Check | Background | Back ground Range | Remarks |
|----------------------|------------|-------------------|--------------|
| 340 nm | 52000 | | |
| 405 nm | 53500 | | |
| 450 nm | 54200 | | |
| 510 nm | 56500 | | |
| 546 nm | 55300 | 48000 to 62000 | Back ground |
| 578 nm | 54100 | | values are |
| 630 nm | 51200 | | within range |
| 670 nm | 54100 | | |



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| Software Communication | Status | Remarks |
|---|--------|---------|
| Operation Software Initialization Check | Normal | Nil |
| Communication between PCand Analyzer | Normal | Nil |
| Shutdown Check | Normal | Nil |

| Reagent Unit Check | Status | Remarks |
|------------------------------|---------|---------|
| Sample/Reagent Syringe Check | Normal | Nil |
| Reagent Unit | Normal | Nil |
| Reaction Unit | Normal | Nil |
| Dust Filters | Cleaned | Nil |
| Distilled Water filter | OK | Nil |

Next Calibration Due on 24th January 2022

Calibrated by:

(Calibration Engineer)

Authorized Signatory:

(Technical Manager)



