



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 Address:	#2/751, VEPPANAPALLI, KRISHNAGIRI DT, TAMILNADU
Location:	BIO CHEMISTRY	Serial No:	61004297
Description:	BIO CHEMISTRYANALYZER	Tag/Asset No:	NA
Make:	EMP	Date of Calibration:	25.01.2021
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.

SUNSHINE BIOMEDICAL SOLUTIONS

No:68, First floor , Poomagal Main Road, Ekkattuthangal, Chennai - 600 032, Tel: 044 - 2225 2087.

Electrical Safety Test Passed : Yes / No

Electrical safety test		
Parameters Used	Measured in Test Gadget	Limits
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 DUT	0.2	As per Manufacture specification
Earth Leakage Current NC	121 μ A	< 500 μ A for B, BF, CF
Earth Leakage Current SFC	237 μ A	< 1000 μ A for B, BF, CF
Enclosure Leakage Current NC	5.1 μ A	< 100 μ A for B, BF, CF
Enclosure Leakage Current SFC	5.4 μ A	< 500 μ A 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 RESULT:

Corrective maintenance required

Removed from use

Acceptable for use

Calibration Engineer Sign



25th January 2021

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	<200	Dark current values are within range
405 nm	78		
450 nm	82		
510 nm	81		
546 nm	83		
578 nm	81		
630 nm	85		
670 nm	89		

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



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:

M.BALAJI

(Calibration Engineer)

Authorized Signatory:

C. SHANMUGARAJ

(Technical Manager)