



FACTUAL CALIBRATION SERVICES (OPC) PVT. LTD.

A House of Complete Solution



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Calibration Certificate

Formal No. : FCS/QF/46

ISSUE DATE 01/07/2023

Page No. : 01 of 01

SERVICE REQUEST & CALIBRATION REPORT DETAILS (As per agreed with the Customer)			
Calibration Request Dated	25.10.2023	Date of Calibration :	26.10.2023
Calibration Request / Job No.	114 / 114-008	Next Date of Calibration	26.10.2024
Certificate No.	FCS/23/114-008	Certificate Issue Date	28.10.2023

CUSTOMER ADDRESS	ENVIRONMENTAL & INSTRUMENT CONDITIONS
M/s Mehla Clinical Laboratory Inside Virk hospital PVT. LTD. 363-364 Randhir Lane, Karnal (HARAYANA)-132001, India	Temperature (25 ± 15) °C Relative Humidity (50 ± 20) %RH Zero Error Null Discipline Medical Instrument Condition In Working (Good)

CALIBRATION CERTIFICATE OF	DESCRIPTION OF (EQP) UNIT UNDER CALIBRATION
ELECTROLYTE ANALYZER	Make / Model Mars Medical System Range / Size As Per Instrument Least Count As Per Range Serial No. NA Asset Code / I.D No. VII/BME/EMT/01/LAB Location Pathology Lab Accuracy/Acceptance Not Specified
Procedure Followed FCS/MD/117 Reference Standard NABL 126 Calibration Performed At At Site	

DETAILS OF REFERENCE STANDARDS AND MAJOR EQUIPMENTS USED FOR CALIBRATION					
Sr. No	Instrument Details	Asst Code	Certificate No.	Calibrated By	Valid upto
1	RTD Sensor with Indicator	FCS/MD/RTD-01	NKERC/23/1001-001	NKERC	01.08.2024
2	Digital Weighing Machine	FCS/MD/PWB-01	NKERC/23/1001-012	NKERC	01.08.2024
3	Process Calibrator	FCS/MD/PC-01	NKERC/23/1001-011	NKERC	01.08.2024
4	Std. Weight set	FCS/MD/SWB-01	NKERC/23/1001-013	NKERC	01.08.2024
5	Electrical Safety Analyzer	FCS/MD/ESA-01	AT23000007411	ASIAN	02.07.2024

The Standards used for calibration are traceable to National Standards.

CALIBRATION RESULT

PARAMETER	DUC VALUE(µl)	STANDARD VALUE(µl)	ERROR(µl)	Uncertainty± (µl)
Volume	200	200.12	-0.12	5.0
	500	500.29	-0.29	5.0
PARAMETER	DUC VALUE(µl)	STANDARD VALUE(µl)	ERROR(µl)	Uncertainty± (µl)
	Aspiration Volume	100	100.52	-0.52
PARAMETER	DUC VALUE(mm)	STANDARD VALUE(mm)	ERROR(mm)	Uncertainty± (mm)
	Low Cell Optical Path	200	200.43	-0.43
	5	5.12	-0.12	5.0
	10	10.19	-0.19	5.0

Maxima Found at	Standard Wavelength	Tolerance Limit
360nm	360.34nm	(upto 400 nm)±1nm
419nm	418.80nm	(400 upto 600 nm)±3nm
537nm	536.40nm	(400 upto 600 nm)±3nm
640nm	638.30nm	(600 upto 1000 nm)±4nm

PARAMETER	DUC VALUE	STANDARD VALUE	ERROR	Uncertainty
Temperature	25.0	25.007	-0.007	0.95
	30.0	30.013	-0.013	0.95
	35.0	35.020	-0.020	0.95

1. Electrical Safety (Visual Test)

S.No	TESTS	REMARKS
1	Power Chords, Cable Check	OK
2	Main Socket Check	OK
3	Equipment Type (B/BF/CF)	B
4	Equipment Class (I/II/III)	I

2. Electrical Safety Test

S.No	PARAMETERS	MEASURE	REMARKS
1	Voltage Between Line & Neutral (V _{ln})	236.5V	OK
2	Voltage Between Line & Earth (V _{le})	243.3V	OK
3	Voltage Between Neutral & Earth (V _{en})	2.2V	OK
4	Patient Leakage Current (P L)	0.7µA	OK

B-BODY TYPE, BF-BODY FLOAT TYPE, CF-CARDIAC FLOAT TYPE, I-PROPERLY EARTHED, II-DOUBLE INSULATED, III WITH EXTRA SAFETY LOW VOLTAGE.

CALIBRATED BY

(Calibration Engineer)

APPROVED BY

(Authorized Signatory)

Note :-

1. UUC = Unit Under Calibration*
2. Uncertainty of measurement at approximately 95% Confidence level with coverage factor k=2, ±20 µm
3. The Calibration Result reported are valid at the time of calibration and under the stated conditions of Measurement.
4. The Calibration report is not valid without sign of (EQ/UM/IM) (Factual Calibration Services (OPC) PVT. LTD.).
5. This Calibration Certificate only to the particular Equipment (Instrument) submitted for Calibration.
6. The Calibration Certificate Should not be regenerated without the permission of Higher Authority of Factual Calibration Services (OPC) PVT. LTD.
7. Calibration Certificate issue for weight & Measure parameters i.e. Mass, Balance, Volumetric equipment, for scientific Purpose only.

A CALIBRATION LABORATORY

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OUR BRANCHES : GHAZIABAD KATHMANDU LUCKNOW REWARI NOIDA PUNJAB

