



Micro Advance Calibration Lab

524, Suresh Nagar Thatipur Morar Gwalior (M.P.) 474006

Calibration Certificate

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Certificate No.	MACL/N/23/25-006	Calibration Certificate of Electrolyte
Issue Date	09/08/2023	
Service Request No.	MACL/N/23/25	
Service Request Date	07/08/2023	
Calibration Date	07/08/2023	
Calibration Due Date (As per Customer request)	06/08/2023	

Name & Address of Customer	Identification on UUC (Unit Under Calibration)	
Shankar Diagnostic Center, 8, Laxman Nagar Arjun Nagar Agra (Uttar Pradesh)	Range/ Size	As Per Instrument
	Make / Model No.	Erba/ EC 90
	Instrument I.D. No.	SDC/LAB/BIO/02
	Instrument Sr. No.	4029-2-202205
	Least Count	As Per Instrument
	Location	Pathology lab
	Visual Inspection	OK

Calibration Procedure	MACL/H/CP-01 to 25	Condition of Instrument	OK
Reference Standard	-----	Calibration Performed at	Site
Environmental Condition	Temperature	25 ± 5°C	Relative Humidity 50 ± 20 % RH

Standard Equipment Used for Calibration				
Instrument Name	Make	Model	Serial No.	Calibration Valid
Electrical Safety Analyzer	Fluke Biomedical	ESA 612	5544503	02/09/2023

Calibration Results

Parameter	Permitted Values	Measured Values	Devison Percentage	Remarks Pass/Fail/NA
Ground Wire Resistance	<0.3Ω	0.02 Ω	2.96	Pass
Chassis Leakage	<100μANC	0.06μA	3.96	Pass
	<500μASFC			
Patient Leakge Current	<100μABandB F	0.05μA	3.36	Pass
	<10μACF			
Patient Lead Leakage	<100μABF			
Current Isolation Test	<10μACF	0.04μA	3.32	Pass
Insulation (Optional)	<2MΩ			

Uncertainty of Measurement ± 1 %	The reported uncertainty stated is the expanded uncertainty of measurement obtained by multiplying the standard uncertainty by the coverage factor k=2 correspond to confidence level of 95 %
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Note :-

- This Certificate refers only to the particular items submitted for calibration.
- This Certificate shall not be reproduced, except in full, without the written permission of C.E.O. Micro Advance Calibration Lab Gwalior.
- Result Reported are Valid at the of and under the stated conditions of measurement.
- Laboratory Standards are traceable to National Standards.
- Calibration Certificate issue for weight & Measure parameters i.e. Mass, Balance, Volumetric equipment, Measuring Scale/Tapes etc. for scientific purpose only and should not be used for Trade / Commerical use.

CALIBRATED BY

Ajay Gadiyas
Calibration Engineer



APPROVED BY

Rajkumar Shukla
Authorized Signatory