



# Micro Advance Calibration Lab

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

## Calibration Certificate

Page No :- 1 of 1

Certificate No.	MACL/N/23/25-001	<b>Calibration Certificate of Fully Automated Bio Chemistry Analyzer</b>
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)	06/08/2024	

Name & Address of Customer	Identification on UUC (Unit Under Calibration)	
<b>Shankar Diagnostic Center, 8, Laxman Nagar Arjun Nagar Agra (Uttar Pradesh)</b>	Range/ Size	As Per Instrument
	Make / Model No.	(ERBA)EM-200
	Instrument I.D. No.	SDC/LAB/BIO/01
	Instrument Sr. No.	B160410
	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	2.76	Pass
Chassis Leakage	<100μANC	0.06μA	3.32	Pass
	<500μASFC			
Patient Leakge Current	<100μABandB F	0.05μA	3.36	Pass
	<10μACF			
Patient Lead Leakage	<100μABF			
Current Isolation Test	<10μACF	0.04μA	4.32	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 %

**Note :-**

- This Certificate refers only to the particular items submitted for calibration.
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- 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 Godiyas  
Calibration Engineer



APPROVED BY  
  
Rajkumar Shakya  
Authorized Signatory



# Micro Advance Calibration Lab

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

## Calibration Certificate

Page No :- 1 of 1

Certificate No.	MACL/N/23/25-002	<b>Calibration Certificate of SEMI BIOCHEMISTRY ANALYZER</b>
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)	06/08/2024	

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.	Tansasia /CHEM-7
	Instrument I.D. No.	SDC/LAB/BIO/03
	Instrument Sr. No.	N120232
	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	0.03 Ω	3.96	Pass
Chassis Leakage	<100μANC	0.06μA	2.96	Pass
	<500μASFC			
Patient Leakage Current	<100μABandB F	0.05μA	4.36	Pass
	<10μACF			
Patient Lead Leakage	<100μABF			
Current Isolation Test	<10μACF	0.04μA	3.32	Pass
	<2MΩ			

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Ajay Godiyas  
Calibration Engineer



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Rajkumar Shakya  
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# Micro Advance Calibration Lab

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

## Calibration Certificate

Page No :- 1 of 1

Certificate No. Issue Date Service Request No. Service Request Date Calibration Date Calibration Due Date (As per Customer request)	MACL/N/23/25-003 09/08/2023 MACL/N/23/25 07/08/2023 07/08/2023 06/08/2024	<b>Calibration Certificate of Hematology Analyzer</b>
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Name & Address of Customer	Identification on UUC (Unit Under Calibration)	
<b>Shankar Diagnostic Center, 8, Laxman Nagar Arjun Nagar Agra(Uttar Pradesh)</b>	Range/ Size Make / Model No. Instrument I.D. No. Instrument Sr. No. Least Count Location Visual Inspection	As Per Instrument H-560 SDC/LAB/HM/01 1104B214709 As Per Instrument Pathology lab 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 <500μASFC	0.06μA	3.84	Pass
Patient Leakage Current	<100μABandB F <10μACF	0.04μA	3.36	Pass
Patient Lead Leakage	<100μABF			
Current, Isolation Test	<10μACF	0.03μA	4.32	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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Ajay Godiyas  
Calibration Engineer



APPROVED BY:  
  
Rakumar Shakya  
Authorized Signatory



# Micro Advance Calibration Lab

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

## Calibration Certificate

Page No :- 1 of 1

Certificate No. Issue Date Service Request No. Service Request Date Calibration Date Calibration Due Date (As per Customer request)	MACL/N/23/25-004 09/08/2023 MACL/N/23/25 07/08/2023 07/08/2023 06/08/2024	<b>Calibration Certificate of</b>  <b>ESR Analyzer</b>
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Name & Address of Customer	Identification on UUC (Unit Under Calibration)	
<b>Shankar Diagnostic Center,</b> 8, Laxman Nagar Arjun Nagar Agra (Uttar Pradesh)	Range/ Size Make / Model No. Instrument I.D. No. Instrument Sr. No. Least Count Location Visual Inspection	As Per Instrument ESR-20 Plus SDC/LAB/HM/02 4121672 As Per Instrument Pathology lab 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	0.03 Ω	2.96	Pass
Chassis Leakage	<100μANC <500μASFC	0.04μA	3.96	Pass
Patient Leakage Current	<100μABandB F <10μACF	0.03μA	3.36	Pass
Patient Lead Leakage Current, Isolation Test	<100μABF <10μACF	0.02μA	3.32	Pass
Insulation (Optional)	<2MΩ			

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Calibration Engineer



APPROVED BY  
  
Rajkumar Shukya  
Authorized Signatory





# Micro Advance Calibration Lab

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

## Calibration Certificate

Page No :- 1 of 1

Certificate No.	MACL/N/23/25-005	<b>Calibration Certificate of</b>  <b>URINE ANALYZER</b>
Issue Date	09/08/2023	
Service Request No.	MACL/N/23/25	
Service Request Date	07/08/2023	
Calibration Date	07/08/2023	
Customer request)	06/08/2024	

Name & Address of Customer	Identification on UUC (Unit Under Calibration)	
<b>Shankar DiagnosticCenter,</b> <b>8, Laxman Nagar</b> <b>Arjun Nagar Agra(Uttar Pradesh)</b>	Range/ Size	As Per Instrument
	Make / Model No.	ORINALYSAR/U 500
	Instrument I.D. No.	SDC/LAB/SIE/01
	Instrument Sr. No.	297B2000624
	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	Devision Percentage	Remarks Pass/Fail/NA
Ground Wire Resistance	<0.3Ω	0.02 Ω	2.96	Pass
Chassis Leakage	<100μANC	0.06μA	4.96	Pass
	<500μASFC			
Patient Leakage Current	<100μABandB F	0.05μA	3.92	Pass
	<10μACF			
Patient Lead Leakage Current. Isolation Test	<100μABF			
	<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 %

**Note :-**


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CALIBRATED BY

  
Ajay Godiyas  
Calibration Engineer



APPROVED BY

  
Rajkumar Shakya  
Authorized Signatory



# Micro Advance Calibration Lab

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

## Calibration Certificate

Page No :- 1 of 1

Certificate No.	MACL/N/23/25-006	<b>Calibration Certificate of  Electrolyte</b>
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)	06/08/2024	

Name & Address of Customer	Identification on UUC (Unit Under Calibration)	
<b>Shankar Diagnostic Center, 8, Laxman Nagar Arjun Nagar Agra (Uttar Pradesh)</b>	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 Leakage Current	<100μABandB F	0.05μA	3.36	Pass
	<10μACF			
Patient Lead Leakage	<100μABF	0.04μA	3.32	Pass
	<10μACF			
Current Isolation Test	<10μACF			
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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Ajay Godiyas  
Calibration Engineer



APPROVED BY  
  
Rajkumar Shakya  
Authorized Signatory





# Micro Advance Calibration Lab

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

## Calibration Certificate

Page No :- 1 of 1

Certificate No.	MACL/N/23/25-007	<b>Calibration Certificate of Coagulation Analyzer</b>
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)	06/08/2024	

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.	eazy CLOT
	Instrument I.D. No.	SDC/LAB/ECL/01
	Instrument Sr. No.	CG0021115RBK
	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	3.96	Pass
Chassis Leakage	<100µANC <50µASFC	0.06µA	3.92	Pass
Patient Leakage Current	<100µABandB F <10µACF	0.03µA	4.36	Pass
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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CALIBRATED BY

Ajay Gohiya  
Calibration Engineer



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Rajkumar Shakya  
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# Micro Advance Calibration Lab

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

## Calibration Certificate

Page No :- 1 of 1

Certificate No.	MACL/N/23/25-008	<b>Calibration Certificate of Centrifuge Machine</b>
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)	06/08/2024	

Name & Address of Customer	Identification on UUC (Unit Under Calibration)	
Shankar DiagnosticCenter, 8, Laxman Nagar Arjun Nagar Agra(Uttar Pradesh)	Range/ Size	4000 rpm
	Make / Model NO.	Remi/NEYA-2
	Instrument I.D. No.	SDC/CENTRIFUGE / PATHOLOGY /01
	Instrument Sr. No.	ZICN-11146
	Least Count	1 rpm
	Location	Pathology lab
	Visual Inspection	O.K.

Calibration Procedure	MACL/H/CP-01 to 25	Condition of Instrument	O.K.
Reference Standard	-----	Calibration performed at	Site
Environmental Condition	Temperature	30 ± 5 °C	Relative Humidity 30 to 80 % RH

Standard Equipment Used for Calibration					
Instrument Name	Make	I.D No./Sr.No.	Calibrated By	Certificate No.	Due Date
Digital Techometer	Sys/HTM-890	MACL/TM-01	BCL Ghaziabad	BCL/2023/0220F	22/01/2024

## Calibration Results

Parameter	Set Value (UUC) rpm	Standard Value (Ref.) in rpm	Error rpm	Uncertainty of Measurement
RPM				1.0%
Range 4000 rpm	1590	1584	-6	
	2180	2174	-6	
	2645	2637	-8	
	3950	3941	-9	

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*Ajay*  
Ajay Gediya  
Calibration Engineer



APPROVED BY

*Rajkumar*  
Rajkumar Shakya  
Authorized Signatory





# Micro Advance Calibration Lab

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

## Calibration Certificate

Page No :- 1 of 1

Certificate No.	MACL/N/23/25-009	<b>Calibration Certificate of Micro Pipette</b>
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)	06/08/2024	

Name & Address of Customer	Identification on UUC (Unit Under Calibration)	
<b>Shankar DiagnosticCenter, 8, Laxman Nagar Arjun Nagar Agra(Uttar Pradesh)</b>	Range/ Size	100-1000 µl
	Make	CE
	Instrument I.D. No.	SDC/MP/PATHO/01
	Instrument Sr. No.	QL621011
	Least Count	5 µl
	Location	Pathology lab
	Visual Inspection	O.K

Calibration Procedure	MACL/H/CP-01 to 25	Condition of Instrument	O.K.
Reference Standard	-----	Calibration performed at	LAB
Environmental Condition	Temperature	25 ± 2°C	Relative Humidity
			50 ± 20 % RH

Instrument Name	Make	I.D No./Sr.No.	Calibrated By	Certificate No.	Due Date
A Set Of Weight	Bullion	MACL/W-02	BCL Ghaziabad	BCL/2023/0223F	22/01/2024
Weight Box	Bullion	MACL/WT-01	BCL Ghaziabad	BCL/2023/0222F	22/01/2024
Weighing Balance	MH	MACL/WM-01	BCL Ghaziabad	BCL/2023/0221F	22/01/2024

## Calibration Results

Reading (UUC) in µl	Reading (Reference ) in µl	Observed Error in µl
100	100.1	-0.1
500	499.9	0.1
1000	1000.1	-0.1

Note :-

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

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## Calibration Certificate

Page No :- 1 of 1

Certificate No.	MACL/N/23/25-010	<b>Calibration Certificate of Micro Pipette</b>
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)	06/08/2024	

Name & Address of Customer	Identification on UUC (Unit Under Calibration)	
Shankar Diagnostic Center, 8, Laxman Nagar Arjun Nagar Agra (Uttar Pradesh)	Range/ Size	5-50 $\mu$ l
	Make	---
	Instrument I.D. No.	SDC/MP/PATHO/02
	Instrument Sr. No.	DX97188
	Least Count	0.5 $\mu$ l
	Location	Pathology lab
	Visual Inspection	O.K

Calibration Procedure	MACL/H/CP-01 to 25	Condition of Instrument	O.K
Reference Standard	-----	Calibration performed at	LAB
Environmental Condition	Temperature	25 $\pm$ 2 $^{\circ}$ C	Relative Humidity
			50 $\pm$ 20 % RH

Instrument Name	Make	I.D No./Sr.No.	Calibrated By	Certificate No.	Due Date
A Set Of Weight	Bullion	MACL/W-02	BCL Ghaziabad	BCL/2023/0223F	22/01/2024
Weight Box	Bullion	MACL/WT-01	BCL Ghaziabad	BCL/2023/0222F	22/01/2024
Weighing Balance	MH	MACL/WM-01	BCL Ghaziabad	BCL/2023/0221F	22/01/2024

## Calibration Results

Reading (UUC) in $\mu$ l	Reading (Reference) in $\mu$ l	Observed Error in $\mu$ l
5	4.9	0.1
10	10.2	-0.2
50	49.9	0.1

Note :-

Uncertainty of Measurement	The reported uncertainty stated is the expanded uncertainty of measurement obtained $\pm$ 1% by multiplying the standard uncertainty by the coverage factor k=2 correspond to confidence level of 95 %
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