



# Excellent Services

A HOUSE OF CALIBRATION

B-34&35, B-54, G-7, Ganpati Paradise, Central Spine, Vidhyadhar Nagar, Jaipur-302039

Tel : 0141-2231774, Mob. : 09314501796, 9414011796

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visit us : www.excellentservices.co.in



CC-2597

## CALIBRATION CERTIFICATE

<b>Name and Address of Customer</b>  <b>Modren The Peoples Lab Jaipur</b> <b>(A Unit of Kovid Educational Society)</b>  Shope No. A-1, Shopping Center, Sector-7, Pratap Nagar, Jaipur, Tehsil: Sanganer, Distt.- Jaipur (Raj.)	Page Number	1 of 1
	ULR Number	CC259723000005073F
	Certificate Number	2304/0581/05
	Job Request Number & Date	2023/0581/05 & 20/04/2023
	Date of Receipt	22/04/2023
	Calibration Date	22/04/2023
	Recommended due on (as per customer request)	21/04/2024
	Certificate Issue Date	25/04/2023

### Description & Identification of UUC

Name	RPM Measurement of Blood Mixer			Condition on Receipt	OK
Make/Model	-----/ SR-20A	Sr.No.	874N	Calibration Performed At	Site
Range	70 rpm	ID.No.	-----	Calibration Parameter	RPM
L.C.	-----	Location	-----		

<b>Environment Condition</b>		<b>Calibration Procedure Number</b>	
Temperature / Humidity	25 ± 4°C / <70%RH	ES/SOP/M/24 based on IS: 12508:2018 and NABL -129-1(A)	

Details of Standard / Master Equipment Used					
Nomenclature	Sr. No.	Range	Certificate No.	Validity	Calibrated By
Digital Tachometer with Source	S231371	0-99999rpm	2206/0562/01	31/05/2023	NABL Cert. No. CC-2597

### MECHANICAL CALIBRATION - DIMENSION

#### CALIBRATION RESULTS

Sr. No.	Specified Value on UUC (rpm)	Avg. Value on Standard (rpm)	Expanded Uncertainty (±)
1.	70	70.2	1.2 rpm
2.		70.4	
3.		70.1	
4.		70.3	
5.		70.5	
<b>Average</b>		<b>70.3</b>	

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Engineer-Calibration

Krishna Kr. Singh



Authorized Signature

Abhishek Singh  
(Dy. Technical Manager)



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<b>Modren The Peoples Lab Jaipur</b> (A Unit of Kovid Educational Society)  Shope No. A-1, Shopping Center, Sector-7, Pratap Nagar, Jaipur, Tehsil: Sanganer, Distt.- Jaipur (Raj.)	ULR Number	CC259723000005072F
	Certificate Number	2304/0581/04
	Job Request Number & Date	2023/0581/04 & 20/04/2023
	Date of Receipt	22/04/2023
	Calibration Date	22/04/2023
	Recommended due on (as per customer request)	21/04/2024
	Certificate Issue Date	25/04/2023

### Description & Identification of UUC

Name	RPM Measurement of Centrifuge			Condition on Receipt	OK
Make/Model	Electra BL (12T) / Eura	Sr.No.	202108285-12	Calibration Performed At	Site
Range	0-4000 rpm	ID.No.	-----	Calibration Parameter	RPM
L.C.	10 rpm	Location	-----		

<b>Environment Condition</b>	<b>Calibration Procedure Number</b>
Temperature / Humidity $25 \pm 4^{\circ}\text{C}$ / <70%RH	ES/SOP/M/24 based on IS: 12508:2018 and NABL -129-1(A)

Details of Standard / Master Equipment Used					
Nomenclature	Sr. No.	Range	Certificate No.	Validity	Calibrated By
Digital Tachometer	S231371	0-99999rpm	2206/0562/01	31/05/2023	NABL Cert. No. CC-2597

### MECHANICAL CALIBRATION - DIMENSION

#### CALIBRATION RESULTS

Sr. No.	Average Value on UUC (rpm)	Average Value on Standard (rpm)	Error (rpm)	Expanded Uncertainty ( $\pm$ )
1.	500	500.3	-0.3	13 rpm
2.	1000	1001	-1	16 rpm
3.	2000	2002	-2	16 rpm
4.	3000	3003	-3	32 rpm
5.	4000	4003	-3	32 rpm

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#### Engineer-Calibration

Krishna K. Singh



#### Authorized Signature

Abhishek Singh  
(Dy. Technical Manager)



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<b>Modren The Peoples Lab Jaipur</b> (A Unit of Kovid Educational Society)  Shope No. A-1, Shoping Center, Sector-7, Pratap Nagar, Jaipur, Tehsil: Sanganer, Distt.- Jaipur (Raj.)	<b>ULR Number</b>	CC259723000005076F
	<b>Certificate Number</b>	2304/0581/08
	<b>Job Request Number &amp; Date</b>	2023/0581/08 & 20/04/2023
	<b>Date of Receipt</b>	22/04/2023
	<b>Calibration Date</b>	22/04/2023
	<b>Recommended due on (as per customer request)</b>	21/04/2024
	<b>Certificate Issue Date</b>	25/04/2023

### Description & Identification of UUC

<b>Name</b>	Micropipette			<b>Condition on Receipt</b>	OK
<b>Make/Model</b>	Dragon Lab	<b>Range</b>	5 to 50 µl	<b>Calibration Parameter</b>	Volume
<b>Sr. No.</b>	YE213AS0145576	<b>Least Count</b>	0.5 µl	<b>Location</b>	-----
<b>Id No.</b>	-----	<b>Calibration Performed At</b>	Lab		
<b>Environment Condition</b>		<b>Calibration Procedure Number</b>			
Temperature / Humidity	23 ± 2°C / 35 to 85%RH	ES/SOP/M/16A based on ISO:8655-6:2002 (E) & NABL-129-1(D)			

### Details of Standard / Master Equipment Used

Nomenclature	Sr. No.	Class	Certificate No.	Validity	Calibrated By
A Set of Weights with Digital Balance	6663	E1	BBT/188/OCT/21	11/10/2024	NABL Cert. No. CC-3082

### MECHANICAL CALIBRATION - VOLUME

#### CALIBRATION RESULTS

Nominal Value on UUC in µl	Average Value on Standard in µl	Error in µl	Expanded Uncertainty (±) µl
10.0	9.75	0.25	0.03
30.0	29.42	0.58	0.03
50.0	49.33	0.67	0.03

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- Readings are taken without adjustment and readings are average of 10 sets of readings.
- All standard equipments used for calibration are traceable to National Standards.
- UUC: Unit Under Calibration.

Engineer-Calibration

Prashant Kr. Singh



Authorized Signature

Abhishek Singh  
(Dy. Technical Manager)



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	ULR Number	CC25972300005077F
	Certificate Number	2304/0581/09
	Job Request Number & Date	2023/0581/09 & 20/04/2023
	Date of Receipt	22/04/2023
	Calibration Date	22/04/2023
	Recommended due on (as per customer request)	21/04/2024
	Certificate Issue Date	25/04/2023

### Description & Identification of UUC

Name	Micropipette			Condition on Receipt	OK
Make/Model	Erba	Range	10 to 100 µl	Calibration Parameter	Volume
Sr. No.	YE212AS0143372	Least Count	1 µl	Location	-----
Id. No.	-----	Calibration Performed At	Lab		

<b>Environment Condition</b>		<b>Calibration Procedure Number</b>	
Temperature / Humidity	23 ± 2°C / 35 to 85%RH	ES/SOP/M/16A based on ISO:8655-6:2002 (E) & NABL-129-1(D)	

### Details of Standard / Master Equipment Used

Nomenclature	Sr. No.	Class	Certificate No.	Validity	Calibrated By
A Set of Weights with Digital Balance	6663	E1	BBT/188/OCT/21	11/10/2024	NABL Cert. No. CC-3082

### MECHANICAL CALIBRATION - VOLUME

#### CALIBRATION RESULTS

Nominal Value on UUC in µl	Average Value on Standard in µl	Error in µl	Expanded Uncertainty (±) µl
10	9.64	0.36	0.42
50	49.15	0.85	0.45
100	98.98	1.02	0.42

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	ULR Number	CC259723000005078F
	Certificate Number	2304/0581/10
	Job Request Number & Date	2023/0581/10 & 20/04/2023
	Date of Receipt	22/04/2023
	Calibration Date	22/04/2023
	Recommended due on (as per customer request)	21/04/2024
Certificate Issue Date	25/04/2023	

### Description & Identification of UUC

Name	Micropipette			Condition on Reciept	OK
Make/ Model	Erba	Range	100 to 1000 µl	Calibration Parameter	Volume
Sr. No.	QH606301	Least Count	5 µl	Location	-----
Id No.	-----	Calibration Performed At	Lab		

Environment Condition		Calibration Procedure Number	
Temperature / Humidity	23 ± 2°C / 35 to 85%RH	ES/SOP/M/16A based on ISO:8655-6:2002 (E) & NABL-129-1(D)	

### Details of Standard / Master Equipment Used

Nomenclature	Sr. No.	Class	Certificate No.	Validity	Calibrated By
A Set of Weights with Digital Balance	6663	E1	BBT/188/OCT/21	11/10/2024	NABL Cert. No. CC-3082

### MECHANICAL CALIBRATION - VOLUME

### CALIBRATION RESULTS

Nominal Value on UUC in µl	Average Value on Standarad in µl	Error in µl	Expanded Uncertainty (±) µl
100	98.89	1.11	0.24
500	497.92	2.08	0.24
1000	996.19	3.81	0.24

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	ULR Number	CC259723000005074F
	Certificate Number	2304/0581/06
	Job Request Number & Date	2023/0581/06 & 20/04/2023
	Date of Receipt	22/04/2023
	Calibration Date	22/04/2023
	Recommended due on (as per customer request)	21/04/2024
	Certificate Issue Date	25/04/2023

### Description & Identification of UUC

Name	Digital Thermo Hygrometer			Condition on Receipt	OK	
Make/Model	-----/ HTC-1	Sr. No.	-----	Calibration Performed At	Lab	
Range	-10 to 50°C	10 to 99% RH	ID. No.	TPL/TH-02	Calibration Parameter	Temperature / Humidity
L.C.	0.1°C	1% RH	Location	-----		

Environment Condition		Calibration Procedure Number
Temperature/Humidity	25 ± 2°C / 50 ± 20%RH	ES/SOP/T/02 based on ITS-90 and NABL 129-5

Details of Standard / Master Equipment Used				
Nomenclature	Sr. Number	Certificate Number	Validity	Calibrated By
Digital Thermo Hygrometer with Sensor & Source	ES/TH/THM-01	30061452	22/11/2023	NABL Cert. No. CC-2733

### THERMAL CALIBRATION- TEMPERATURE

### CALIBRATION RESULTS

Calibration Range : 5 to 50°C & 20 to 95%RH									
Temperature @50%RH					Humidity @ 25°C				
Sr. No.	Avg. Reading Master in	Avg. Reading UUC in	Error in	Expanded Uncertainty (±)	Sr. No.	Avg. Reading Master in	Avg. Reading UUC in	Error in	Expanded Uncertainty (±)
	°C	°C	°C	°C		% RH	% RH	% RH	% RH
1.	5.18	5.1	-0.08	0.46	1.	20.38	20	-0.38	1.47
2.	15.45	15.3	-0.15	0.46	2.	50.69	50	-0.69	1.47
3.	30.21	30.0	-0.21	0.46	3.	75.94	75	-0.94	1.47
4.	50.09	49.8	-0.29	0.46	4.	95.24	94	-1.24	1.47

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#### Engineer-Calibration

Piyush Mandal



#### Authorized Signature

Brijesh Kumar Singh  
(Technical Manager)



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	ULR Number	CC259723000005071F
	Certificate Number	2304/0581/03
	Job Request Number & Date	2023/0581/03 & 20/04/2023
	Date of Receipt	22/04/2023
	Calibration Date	22/04/2023
	Recommended due on (as per customer request)	21/04/2024
	Certificate Issue Date	25/04/2023

### Description & Identification of UUC

Name	Temperature Indicator with Sensor (Single Position)		Condition on Receipt	OK
Make/Model	----	Sr. No.	----	Calibration Performed At
Range	-20°C to 10 °C	ID. No.	TPL/DF-01	Calibration Parameter
L.C.	0.1 °C	Location	-----	Site
				Temperature

<b>Environment Condition</b>		<b>Calibration Procedure Number</b>
Temperature / Humidity	25 ± 2°C / 50 ± 20%RH	ES/SOP/T/03 based on ITS-90 and NABL 129-5

<b>Details of Standard / Master Equipment Used</b>				
<b>Nomenclature</b>	<b>Sr. Number</b>	<b>Certificate Number</b>	<b>Validity</b>	<b>Calibrated By</b>
Temperature Indicator with 4 wire RTD Sensor	ES/TH/RTD-02	2207/0702/02	30/06/2023	NABL Cert. No. CC-2597

### THERMAL CALIBRATION - TEMPERATURE

### CALIBRATION RESULTS

Calibration Points : -20, -10, -5, 10°C				
Sr. No.	Average UUC °C	Average Standard °C	Error °C	Expanded Uncertainty (±) °C
1	-20.1	-20.33	0.23	1.7
2	-10.2	-10.31	0.11	1.7
3	-5.0	-5.06	0.06	1.7
4	10.2	10.29	-0.09	1.7

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