

CALIBRATION CERTIFICATE

CERTIFICATE NO:	SBS/CL/23/13348	MECHANICAL	Page No:1 of 1	
Issue Date	07-10-2023			
SRF No & Date	SRF/23/00728-0001 & 07-10-2023			
Receipt Date	07-10-2023			
Calibration Date	07-10-2023			
Calibration Due	06-10-2024			
Customer Name & Address				
GOVERNMENT PRIMARY HEALTH CENTRE, KADAVUR-621311,KARUR DISTRICT.				
Details of Device Under Calibration (DUC)				
Description	: CENTRIFUGE	Make & Model	: LABOTECH & NA	
Range	: 3500 RPM	Sr. No	: 0117601	
Resolution	: 1 RPM	Identification No	: NA	
DUC Condition	: Satisfactory	Location	: LABORATORY	
Environmental Conditions & Standard Operating Procedure Details				
Environmental Details	Temperature: 25.4°C	Relative Humidity	54% Rh	
Calibration Procedure No	SBS/CP/ML/04	Calibration done at	ONSITE	
Reference Standards Details				
S.No	Description	Make/ SI No:	Certificate No	Validity
1	Digital Tachometer	LINE SEIKI / 175-0034V	JRPM-CCTR-A&S-2023-0013	09-06-2024

CALIBRATION RESULTS

S.No	DEVICE UNDER CALIBRATION	STANDARD INSTRUMENTS	DEVIATION	EXPANDED UNCERTAINTY
	RPM	RPM	RPM	%
1	1000	998.9	1.1	4.2
2	2000	1998.6	1.4	4.2
3	3000	2998.7	1.3	4.2

REMARKS

- 1.This Calibration certificate shall not be reproduced except in full, without written approval of the laboratory.
- 2.The user should determine the suitability of the instrument for its intended use.
- 3.The recalibration interval should be determined on the user requirement.
- 4.The results stated in this certificate relate only to the item calibrated.
- 5.The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor k=2.00.
6. Equipment used for Calibration were calibrated & traceable to National & International Standards.

Calibrated By

KSMY
(Calibration Engineer)
K.SATHYAMOORTHY



Authorised Signatory

C. Sivabalan
Quality Manager
(C.SIVABALAN) Chief Executive

SUNSHINE BIOMEDICAL SOLUTIONS

No:68, First Floor, Poomagal Main Road, Ekkattuthangal, Chennai - 600 032, Tel: 044 - 2225 2087,
E-Mail: calibration@sunshinebiomedical.com, Website: www.sunshinebiomedical.com.

CALIBRATION CERTIFICATE

CERTIFICATE NO: SBS/CL/23/13349		MEDICAL DEVICES		Page No:1 of 1
Issue Date	07-10-2023			
SRF No & Date	SRF/23/00728-0002 & 07-10-2023			
Receipt Date	07-10-2023			
Calibration Date	07-10-2023			
Calibration Due	06-10-2024			
Customer Name & Address				
GOVERNMENT PRIMARY HEALTH CENTRE, KADAVUR-621311,KARUR DISTRICT.				
Details of Device Under Calibration (DUC)				
Description	ELECTRICAL SAFETY(MICROSCOPE)	Make & Model	LABOMED & NA	
Range	MULTI	Sr. No	1576848	
Resolution	MULTI	Identification No	NA	
DUC Condition	SATISFACTORY	Location	LABORATORY	
Environmental Conditions & Calibration Procedure Details				
Environmental Details	Temperature:25.5°C	Relative Humidity	55% RH	
Calibration Procedure No	SBS/CP/MD/29	Calibration done at	ONSITE	
Reference Standards Details				
S.No	Description	Make/ SI No:	Certificate No	Validity
1	Electrical Safety Analyser	Rigel Medical & 44L-1059	M-230809-16-4	10-08-2024

ELECTRICAL SAFETY

RESULTS

S.no	SPECIFICATION	MEASURED VALUES	EXPANDED UNCERTAINTY (±)
1	Insulation Resisitance	Measured values in MΩ	Uncertainty in % (±)
	>20MΩ	90	13.92
2	Earth Leakage	Measured values in μA	Uncertainty in % (±)
	<5000μAfor B,BF,CF	175	7.5
3	Enclosure Leakage	Measured values in μA	Uncertainty in % (±)
	<500μAfor B,BF,CF	198	7.3

REMARKS

- This Calibration certificate shall not be reproduced except in full, without written approval of the laboratory.
- The user should determine the suitability of the instrument for its intended use.
- The recalibration interval should be determined on the user requirement.
- The results stated in this certificate relate only to the item calibrated.
- The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor k=2.00 .
- Equipment used for Calibration were calibrated & traceable to National & International Standards.

Calibrated By

Authorised Signatory

K.Sathy
(Calibration Engineer)
K.SATHYAMOORTHY



C.Shanmugaraj
Technical Manager
C.SHANMUGARAJ

Chief Executive

SUNSHINE BIOMEDICAL SOLUTIONS

No:68, First Floor, Poomagal Main Road, Ekkattuthangal, Chennai - 600 032, Tel: 044 - 2225 2087,
E-Mail: calibration@sunshinebiomedical.com, Website: www.sunshinebiomedical.com.

CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13350

Page No : 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE, KADAVUR-621311,KARUR DISTRICT.	SRF No.	SRF/23/00728-0003
	SRF Date	07-10-2023
	Date of Receipt	06-10-2023
	Date of Calibration	07-10-2023
	Due Date for Calibration	06-10-2024
	Issue Date	07-10-2023

Details of Unit Under Calibration

Description	Micro Pipette	Make	DRAGON LAB
Range	10-100µl	Model	NA
Resolution	1µl	Material	PVC
Serial Number	YE214AS01996466	Operating Range	10-100µl
ID Number	NA	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LABORATORY

Environmental Condition				Calibration Method Used	
Temperature (°C)	23.9	Humidity (%RH)	55	National / International Standard	ISO 8655-6:2002
Atmospheric Pressure (mbar)	1006	Water Temperature (°C)	21.6	Cal Procedure No	SBS/CP/ML/08

Standard Used

SI. No.	Description	ID.No. / SI. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Weighing Balance	15112918	TVCSP122/12/2115-01	A&D & GH-252	National Standards	09-12-2023

Z Factor: 1.00319

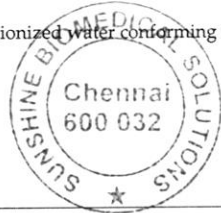
Result of Calibration in µl											
SI. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	10	9.90	9.92	9.88	9.91	9.92	9.91	-0.09	0.01	0.47	
		9.91	9.92	9.93	9.92	9.90					
2	50	49.78	49.76	49.74	49.72	49.74	49.74	-0.26	0.02	0.47	
		49.76	49.75	49.73	49.72	49.71					
3	100	98.92	98.94	98.94	98.96	98.92	98.93	-1.07	0.02	0.47	
		98.91	98.93	98.94	98.92	98.91					

Remarks

- This Calibration certificate shall not be reproduced except in full, without written approval of the laboratory.
- The user should determine the suitability of the instrument for its intended use.
- The recalibration interval should be determined on the user requirement.
- The results stated in this certificate relate only to the item calibrated.
- Equipment used for Calibration were calibrated & traceable to National & International Standards
- The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor k=2.00 .
- Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.

Calibrated By,


(Calibration Engineer)
M.RAGUL



Authorised by:


(Quality Manager/Chief Executive)
C.SIVABALAN

SUNSHINE BIOMEDICAL SOLUTIONS

No:68, First Floor, Poomagal Main Road, Ekkattuthangal, Chennai - 600 032, Tel: 044 - 2225 2087,
E-Mail: calibration@sunshinebiomedical.com, Website: www.sunshinebiomedical.com.



CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13351

Page. No : 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE, KADAVUR-621311, KARUR DISTRICT.	SRF No.	SRF/23/00728-0004
	SRF Date	07-10-2023
	Date of Receipt	06-10-2023
	Date of Calibration	07-10-2023
	Due Date for Calibration	06-10-2024
	Issue Date	07-10-2023

Details of Unit Under Calibration

Description	Micro Pipette	Make	DRAGON LAB
Range	100-1000µl	Model	NA
Resolution	10µl	Material	PVC
Serial Number	YEAA7AC0012472	Operating Range	100-1000µl
ID Number	NA	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LABORATORY

Environmental Condition				Calibration Method Used	
Temperature (°C)	23.9	Humidity (%RH)	55	National / International Standard	ISO 8655-6:2002
Atmospheric Pressure (mbar)	1006	Water Temperature (°C)	21.6	Cal Procedure No	SBS/CP/ML/08

Standard Used

SI. No.	Description	ID.No. / SI. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Weighing Balance	15112918	TVCSP22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

Z Factor: 1.00319

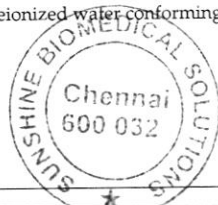
Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	100	100.51	100.52	100.53	100.52	100.51	100.50	0.50	0.02	0.47
		100.49	100.48	100.49	100.49	100.48				
2	500	500.40	500.42	500.43	500.44	500.46	500.43	0.43	0.02	0.47
		500.45	500.44	500.43	500.42	500.41				
3	1000	1001.24	1001.26	1001.23	1001.22	1001.22	1001.22	1.22	0.03	0.47
		1001.18	1001.17	1001.20	1001.24	1001.26				

Remarks

1. This Calibration certificate shall not be reproduced except in full, without written approval of the laboratory.
2. The user should determine the suitability of the instrument for its intended use.
3. The recalibration interval should be determined on the user requirement.
4. The results stated in this certificate relate only to the item calibrated.
5. Equipment used for Calibration were calibrated & traceable to National & International Standards
6. The indicated uncertainties are expanded uncertainty estimated for a confidence level of approximately 95% for a coverage factor k=2.00.
7. Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.

Calibrated By,


 (Calibration Engineer)
 M.RAGUL



Authorised by:


 Quality Manager/Chief Executive
 C.SIVABALAN

SUNSHINE BIOMEDICAL SOLUTIONS

No:68, First Floor, Poomagal Main Road, Ekkattuthangal, Chennai - 600 032, Tel: 044 - 2225 2087,
 E-Mail: calibration@sunshinebiomedical.com, Website: www.sunshinebiomedical.com.