

CALIBRATION CERTIFICATE

CERTIFICATE NO: SBS/CL/23/13260		MEDICAL DEVICES		Page No:1 of 1
Issue Date	07-10-2023			
SRF No & Date	SRF/23/00706-0001 & 06-10-2023			
Receipt Date	06-10-2023			
Calibration Date	06-10-2023			
Calibration Due	05-10-2024			
Customer Name & Address				
GOVERNMENT PRIMARY HEALTH CENTRE, KATHIRUPPUR -609109,MAYILADUTHURAI DISTRICT				
Details of Device Under Calibration (DUC)				
Description	: SEMI AUTO ANALYZER	Make & Model	: ROBONIK & PRIETEST TOUCH	
Range	: MULTI	Sr. No	: ATCD0510519RBK	
Resolution	: MULTI	Identification No	: NA	
DUC Condition	: SATISFACTORY	Location	: LABORATORY	
Environmental Conditions & Calibration Procedure Details				
Environmental Details	Temperature:25.6 ° C	Relative Humidity	52% RH	
Calibration Procedure No	SBS/CP/MD/20	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	100	13.92
2	Earth Leakage	Measured values in μA	Uncertainty in % (±)
	<5000μAfor B,BF,CF	158	7.6
3	Enclosure Leakage	Measured values in μA	Uncertainty in % (±)
	<500μAfor B,BF,CF	229	7.2

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

K.Sathy
(Calibration Engineer)
K.SATHIYAMOORTHY



Authorised Signatory

C.Sho
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/23/13261	MECHANICAL	Page No:1 of 1
Issue Date	07-10-2023		
SRF No & Date	SRF/23/00706-0002 & 06-10-2023		
Receipt Date	06-10-2023		
Calibration Date	06-10-2023		
Calibration Due	05-10-2024		

Customer Name & Address
 GOVERNMENT PRIMARY HEALTH CENTRE,
 KATHIRUPPUR -609109,MAYILADUTHURAI DISTRICT

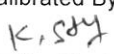
Details of Device Under Calibration (DUC)			
Description	CENTRIFUGE	Make & Model	MICROSIL N/A
Range	3500 RPM	Sr. No	667
Resolution	1 RPM	Identification No	NA
DUC Condition	Satisfactory	Location	LABORATORY

Environmental Conditions & Standard Operating Procedure Details			
Environmental Details	Temperature: 25.3°C	Relative Humidity	55% Rh
Calibration Procedure No	SBS/CP/ML/04	Calibration done at	ONSITE

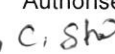
Reference Standards Details				
S.No	Description	Make/ SI No:	Certificate No	Validity
1	Digital Tachometer	LINE SEIKI / 175-0034V	JRPM-CCTR-A&S-2023-0013	09-06-2024

CALIBRATION RESULTS				
S.No	DEVICE UNDER CALIBRATION	STANDARD INSTRUMENTS	DEVIATION	EXPANDED UNCERTAINTY
	RPM	RPM	RPM	%
1	1000	999.2	0.8	4.2
2	2000	1999.6	0.4	4.2
3	3000	2999.6	0.4	4.2

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 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

 (Calibration Engineer)
 K.SATHIYAMOORTHY



Authorised Signatory

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

SUNSHINE BIOMEDICAL SOLUTIONS

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CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13262

Page No : 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE KATHIRUPPUR-609109, MAYILADUTHURAI DISTRICT	SRF No. SRF/23/00706-0003	SRF Date 06-10-2023
	Date of Receipt 05-10-2023	
	Date of Calibration 06-10-2023	
	Due Date for Calibration 05-10-2024	
	Issue Date 07-10-2023	

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	10-100µl	Model	FINNPIPETTE F3
Resolution	0.2µl	Material	PVC
Serial Number	RW09819	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)	23.6	Humidity (%RH)	54	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

Sl. 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	10.0	9.96	9.95	9.98	9.96	9.97	9.97	-0.03	0.01	0.47
		9.98	9.96	9.97	9.98	9.95				
2	50.0	49.86	49.85	49.87	49.86	49.85	49.91	-0.09	0.05	0.47
		49.95	49.96	49.97	49.95	49.95				
3	100.0	99.98	99.97	99.98	99.96	99.98	99.96	-0.04	0.01	0.47
		99.95	99.96	99.94	99.95	99.96				

Remarks

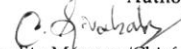
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- 3.The recalibration interval should be determined on the user requirement.
- 4.The results stated in this certificate relate only to the item calibrated.
5. Equipment used for Calibration were calibrated & traceable to National & International Standards
- 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.ADHIBAN



Authorised by:


 (Quality Manager/Chief Executive)
 C.SIVABALAN

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CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13263

Page. No: 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE KATHIRUPPUR-609109, MAYILADUTHURAI DISTRICT	SRF No.	SRF/23/00706-0004
	SRF Date	07-10-2023
	Date of Receipt	06-10-2023
	Date of Calibration	06-10-2023
	Due Date for Calibration	05-10-2024
	Issue Date	07-10-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	100-1000µl	Model	FINNPIPETTE F3
Resolution	1µl	Material	PVC
Serial Number	RW12634	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)	23.5	Humidity (%RH)	52	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

Sl. No.	Description	ID.No. / Sl. 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	99.94	99.96	99.94	99.92	99.93	99.95	-0.05	0.02	0.47	
		99.94	99.95	99.96	99.97	99.98					
2	500	499.85	499.86	499.87	499.89	499.86	499.87	-0.13	0.02	0.47	
		499.86	499.87	499.89	499.85	499.89					
3	1000	999.96	999.97	999.98	999.96	999.95	999.96	-0.04	0.01	0.47	
		999.98	999.94	999.96	999.95	999.95					

Remarks


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