



Centrifuge

### CALIBRATION CERTIFICATE

CERTIFICATE NO: SBS/CL/23/13134      MECHANICAL      Page No:1 of 1

Issue Date	06-10-2023
SRF No & Date	SRF/23/00679-0002 & 05-10-2023
Receipt Date	05-10-2023
Calibration Date	05-10-2023
Calibration Due	04-10-2024

**Customer Name & Address**  
GOVERNMENT URBAN PRIMARY HEALTH CENTRE,  
KILAKARAI-623517,RAMANATHAPURAM DISTRICT.

**Details of Device Under Calibration (DUC)**

Description	CENTRIFUGE	Make & Model	LABOTECH & BDI-152
Range	3500 RPM	Sr. No	NA
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**

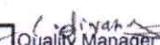
S.No	DEVICE UNDER CALIBRATION	STANDARD INSTRUMENTS	DEVIATION	EXPANDED UNCERTAINTY
	RPM	RPM	RPM	%
1	1000	998.6	1.4	4.2
2	2000	1998.6	1.4	4.2
3	3000	2998.7	1.3	4.2

**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  
  
 (Calibration Engineer)  
 M.DINESH



Authorised Signatory  
 Quality Manager  
  
 (C.SIVABALAN)       Chief Executive



NAPL Certificate

10-100ul

### CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13136		Page No: 1 of 1	
Customer Name & Address			
GOVERNMENT URBAN PRIMARY HEALTH CENTRE, KILAKARAI-623517, RAMANATHAPURAM DISTRICT.	SRF No.	SRF/23/00679-0004	
	SRF Date	05-10-2023	
	Date of Receipt	05-10-2023	
	Date of Calibration	05-10-2023	
	Due Date for Calibration	04-10-2024	
	Issue Date	06-10-2023	

Details of Unit Under Calibration			
Description	Micro Pipette	Make	THERMO SCIENTIFIC
Range	10-100µl	Model	FINNPIPETTE F3
Resolution	0.2µl	Material	PVC
Serial Number	RW10509	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						
Sl. No.	Description	ID.No. / Sl. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Weighing Balance	15112918	TVCSP/22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

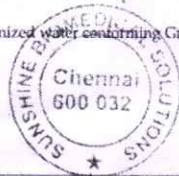
Z Factor: 1.00319

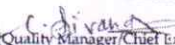
Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	10.0	9.47	9.46	9.48	9.47	9.46	9.45	-0.55	0.02	0.47	
		9.42	9.43	9.43	9.44	9.45					
2	50.0	49.57	49.56	49.58	49.56	49.56	49.56	-0.44	0.01	0.47	
		49.54	49.56	49.57	49.56	49.54					
3	100.0	98.92	98.94	98.93	98.94	98.93	98.91	-1.09	0.02	0.47	
		98.91	98.92	98.89	98.88	98.88					

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- 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.SIVARALAN

### 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.





100-1000 ul

### CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13135 Page No: 1 of 1

Customer Name & Address		SRF No.	SRF/23/00679-0003
GOVERNMENT URBAN PRIMARY HEALTH CENTRE, KILAKARAI-623517, RAMANATHAPURAM DISTRICT.		SRF Date	05-10-2023
		Date of Receipt	05-10-2023
		Date of Calibration	05-10-2023
		Due Date for Calibration	04-10-2024
		Issue Date	06-10-2023

Details of Unit Under Calibration			
Description	Micro Pipette	Make	THERMO SCIENTIFIC
Range	100-1000µl	Model	FINNPIPETTE 53
Resolution	1µl	Material	PVC
Serial Number	RW13714	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)	23.8	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. / Sl. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Weighing Balance	15112918	TVCSP/22/12/2115-01	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	99.92	99.91	99.92	99.91	99.90	99.91	-0.09	0.01	0.47	
		99.92	99.91	99.91	99.92	99.92					
2	500	499.67	499.68	499.67	499.68	499.67	499.68	-0.32	0.01	0.47	
		499.68	499.67	499.68	499.68	499.67					
3	1000	999.66	999.65	999.64	999.63	999.62	999.63	-0.37	0.02	0.47	
		999.65	999.64	999.62	999.62	999.61					

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  - Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.

Calibrated By,  
  
 (Calibration Engineer)  
 MRAGUL



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.



Semi Auto Analyser

### CALIBRATION CERTIFICATE

<b>CERTIFICATE NO: SBS/CL/23/13133</b>		<b>MEDICAL DEVICES</b>		Page No:1 of 1
Issue Date	06-10-2023			
SRF No & Date	SRF/23/00679-0001 & 05-10-2023			
Receipt Date	05-10-2023			
Calibration Date	05-10-2023			
Calibration Due	04-10-2024			
<b>Customer Name &amp; Address</b>				
GOVERNMENT URBAN PRIMARY HEALTH CENTRE, KILAKARAI-623517,RAMANATHAPURAM DISTRICT.				
<b>Details of Device Under Calibration (DUC)</b>				
Description	SEMI AUTO ANALYZER	Make & Model	ALPHA TECHNOLOGIES & ALPHA CHEM 100	
Range	MULTI	Sr. No	BCAA17062631	
Resolution	MULTI	Identification No	NA	
DUC Condition	SATISFACTORY	Location	LABORATORY	
<b>Environmental Conditions &amp; Calibration Procedure Details</b>				
Environmental Details	Temperature:25.6°C	Relative Humidity	52% RH	
Calibration Procedure No	SBS/CP/MD/20	Calibration done at	ONSITE	
<b>Reference Standards Details</b>				
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	<b>Insulation Resistance</b>	<b>Measured values in MΩ</b>	<b>Uncertainty in % (±)</b>
	>20MΩ	98	13.92
2	<b>Earth Leakage</b>	<b>Measured values in μA</b>	<b>Uncertainty in % (±)</b>
	<5000μAfor B,BF,CF	175	7.5
3	<b>Enclosure Leakage</b>	<b>Measured values in μA</b>	<b>Uncertainty in % (±)</b>
	<500μAfor B,BF,CF	226	7.2

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6. Equipment used for Calibration were calibrated & traceable to National & International Standards.

Calibrated By

Authorised Signatory

*M.D*  
(Calibration Engineer)  
M.DINESH



*C.S*  
Technical Manager  
C.SHANMUGARAJ

Chief Executive

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