



CALIBRATION CERTIFICATE

CERTIFICATE NO: SBS/CL/23/14890	MEDICAL DEVICES	Page No:1 of 1
Issue Date	17-10-2023	
SRF No & Date	SRF/23/00906-0001 & 16-10-2023	
Receipt Date	16-10-2023	
Calibration Date	16-10-2023	
Calibration Due	15-10-2024	

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
MUTTAM-608309,CUDDALORE DISTRICT.

Details of Device Under Calibration (DUC)

Description : SEMI AUTO ANALYZER	Make & Model : ROBONIK & PRIETEST TOUCH
Range : MULTI	Sr. No : AT0171010RBK
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 Resistance >20MΩ	Measured values in MΩ 92	Uncertainty in % (±) 13.92
2	Earth Leakage <5000µAfor B,BF,CF	Measured values in µA 172	Uncertainty in % (±) 7.5
3	Enclosure Leakage <500µAfor B,BF,CF	Measured values in µA 221	Uncertainty in % (±) 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


(Calibration Engineer)
P.PRASANNA



Authorised Signatory


Technical Manager
C.SHANMUGARAJ

Chief Executive



CALIBRATION CERTIFICATE


CERTIFICATE NO:	SBS/CL/23/14891	MECHANICAL	Page No:1 of 1	
Issue Date	17-10-2023			
SRF No & Date	SRF/23/00906-0002 & 16-10-2023			
Receipt Date	16-10-2023			
Calibration Date	16-10-2023			
Calibration Due	15-10-2024			
<u>Customer Name & Address</u>				
GOVERNMENT PRIMARY HEALTH CENTRE, MUTTAM-608309,CUDDALORE DISTRICT.				
Details of Device Under Calibration (DUC)				
Description	: CENTRIFUGE	Make & Model	: REMI & NA	
Range	: 5250 RPM	Sr. No	: ZBEN-12429	
Resolution	: 10 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

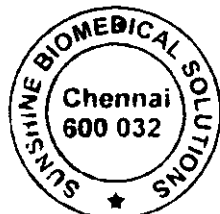
CALIBRATION RESULTS

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


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- 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

(Calibration Engineer)
P.PRASANNA



Authorised Signatory

 Quality Manager (C.SIVABALAN)	<input type="checkbox"/> Chief Executive
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CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/14892

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Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE,
MUTTAM-608309, CUDDALORE DISTRICT.

SRF No.	SRF/23/00906-0003
SRF Date	16-10-2023
Date of Receipt	15-10-2023
Date of Calibration	16-10-2023
Due Date for Calibration	15-10-2024
Issue Date	17-10-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	10-100µl	Model	FINNPIPETTE F3
Resolution	0.2µl	Material	PVC
Serial Number	PW14218	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	TVCSP22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

Z Factor: 1.00319

Result of Calibration in µl

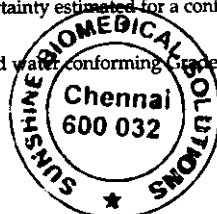
SI. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	10.0	9.91	9.92	9.93	9.92	9.91	9.92	-0.08	0.01	0.47
		9.92	9.90	9.93	9.94	9.95				
2	50.0	49.95	49.96	49.97	49.98	49.99	49.95	-0.05	0.03	0.47
		49.90	49.91	49.92	49.92	49.96				
3	100.0	99.96	99.97	99.98	99.97	99.96	99.97	-0.03	0.01	0.47
		99.96	99.97	99.98	99.99	99.96				

Remarks


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- 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 Grade 3 as specified in ISO 3696.

Calibrated By,


 (Calibration Engineer)
 M.RAGUL



Authorised by:


 (Quality Manager/Chief Executive)
 C.SIVABALAN



CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/14893

Page. No: 1 of 1

Customer Name & Address

GOVERNMENT PRIMARY HEALTH CENTRE, MUTTAM-608309, CUDDALORE DISTRICT.	SRF No.	SRF/23/00906-0004
	SRF Date	16-10-2023
	Date of Receipt	15-10-2023
	Date of Calibration	16-10-2023
	Due Date for Calibration	15-10-2024
	Issue Date	17-10-2023

Details of Unit Under Calibration

Description	MICRO PIPETTE	Make	THERMO SCIENTIFIC
Range	100-1000µl	Model	FINNPIPETTE F3
Resolution	1µl	Material	PVC
Serial Number	QW10290	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	TVCSPL22/12/2115-01	A&D & GH-252	National Standards	09-12-2023

Z Factor: 1.00319

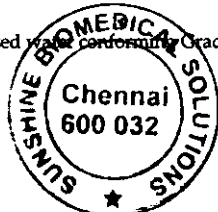
Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	100	99.94	99.96	99.97	99.95	99.90	99.96	-0.04	0.02	0.47
		99.96	99.95	99.97	99.98	99.98				
2	500	499.85	499.82	499.83	499.82	499.81	499.83	-0.17	0.01	0.47
		499.82	499.83	499.84	499.85	499.82				
3	1000	999.88	999.89	999.87	999.88	999.85	999.87	-0.13	0.01	0.47
		999.85	999.86	999.85	999.87	999.87				

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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 to Grade3 as specified in ISO 3696.

Calibrated By,

 (Calibration Engineer)
 MRACUL



Authorised by:

 (Quality Manager/Chief Executive)
 C.SIVABALAN