

Roan  
Roan  
Roan

### Calibration Certificate

Certificate No.: Analyzer- ATCD2411220RBK -062 / 2023-2024

Date of Calibration: 22-09-2023

Calibration Due on: 21-09-2024

Model Name: PRIETEST TOUCH  
Sr. No: ATCD2411220RBK  
The Medical Officer,  
Primary health center,  
Labbaikudikkadu.

STANDARD USED FOR CALIBRATION			
Parameters	Inst. Name & Sr. No.	Cert. No.	Valid by
Temperature Calibration	Digital Thermometer	UCS/CAL/21100315	Universal Instrument 31/10/2024
Temperature Calibration	Digital Thermometer	UCS/CAL/21100314	Universal Instrument 31/10/2024
Film readings Calibration	Spectrophotometer, Make: Shimadzu, Model No. UV-1800, Sr. No. A-1145-4702871	REG/28-2207	QC Dept. of Reagent Robonik India Pvt.Ltd 26/07/2024

OBSERVATIONS (Temperature Calibration)		Cuvette Temperature
Incubator Temperature		
Temperature Details	0.25	01.2
Thermometer Sr. No.	37.5c	37.4°C
Obtained Value		
Range	37°C (± 1°C)	37°C (± 0.5°C)

OPTICAL FILM READING CALIBRATION			
Wavelength	Film Type	Range	Absorbance Obtained
340 nm	ISP	0.549 - 0.619	0.590
	1HP + ISP	0.843 - 0.975	0.914
	1TP	1.027 - 1.853	1.737
	2DP + 1HP	2.643 - 3.427	2.714
405 nm	ISP	0.307 - 0.348	0.318
	1TP	0.929 - 1.062	1.007
	2DP + 1HP	1.432 - 1.642	1.572
	3TP	2.809 - 3.318	3.034
510 nm	ISP	0.299 - 0.337	0.300
	1TP	0.913 - 1.054	0.997
	2DP + 1HP	1.306 - 1.576	1.505
	3TP	2.784 - 3.332	2.997
545 nm	ISP	0.264 - 0.313	0.286
	1TP	0.844 - 0.956	0.918
	2DP + 1HP	1.287 - 1.446	1.393
	3TP	2.512 - 2.849	2.790
578 nm	ISP	0.265 - 0.302	0.292
	1TP	0.791 - 0.964	0.874
	2DP + 1HP	1.200 - 1.391	1.337
	3TP	2.387 - 2.702	2.660
630 nm	ISP	0.300 - 0.352	0.331
	1TP	0.977 - 1.115	1.065
	2DP + 1HP	1.443 - 1.648	1.584
	3TP	2.806 - 3.230	3.165

Biochemistry Analyzer bearing serial no. ATCD2411220RBK has been calibrated for above parameter and found to be within its acceptance criteria.



calibrated by:

M. J. A.

Approved by:

[Signature]



## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/22-23/04440

Page No: 1 of 1

GOVERNMENT UPGRADED COMMUNITY HEALTH CENTRE, LABBAIKUDIKADU-621108	SRF No.	SBS/SRF/22-23/0082-013
	SRF Date	02-06-2022
	Date of Receipt	02-06-2022
	Date of Calibration	06-06-2022
	Due Date for Calibration	05-06-2023
	Issue Date	06-06-2022

**Details of Unit Under Calibration**

Description	Micro Pipette	Make	THERMO SCIENTIFIC
Range	100-1000 $\mu$ l	Model	FINNPIPETTE F3
Resolution	1 $\mu$ l	Material	PVC
Serial Number	PW16745	Operating Range	100-1000 $\mu$ l
ID Number		Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LAB

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 Semi Micro Balance	15112918	TVCSPL21/12/1587-01	A&D & GH-252	National Standards	10-12-2022

Z Factor: 1.00319

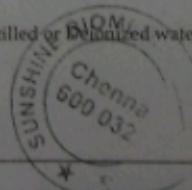
Result of Calibration in $\mu$ l											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (t)	
1	100	99.65	99.67	99.64	99.65	99.63	99.72	-0.28	0.09	0.47	
		99.63	99.83	99.82	99.83	99.82					
2	500	499.75	499.76	499.74	499.76	499.77	499.75	-0.25	0.01	0.47	
		499.75	499.74	499.75	499.76	499.76					
3	1000	999.56	999.54	999.53	999.56	999.53	999.53	-0.47	0.02	0.47	
		999.52	999.51	999.54	999.53	999.52					

**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.

Checked & Issued by:

(Calibration Engineer)  
 M.BALAJI



Authorised by:

(Quality Manager/Chief Executive)  
 D.VETRI SELVI

**SUNSHINE BIOMEDICAL SOLUTIONS**

No.68, First floor, Poomagal Main Road, Ekkattuthangal, Chennai - 600 032, Tel: 044 - 2225 2087



# CALIBRATION CERTIFICATE

CERTIFICATE NO: SBS/CL/22-23/04428

MEDICAL DEVICES

Page No. 1 of 1

Issue Date : 06-06-2022  
 SRF No & Date : SBS/SRF/22-23/00082 -001 & 02-06-2022  
 Receipt Date : 02-06-2022  
 Calibration Date : 02-06-2022  
 Calibration Due : 01-06-2023

Customer Name & Address :  
 GOVERNMENT UPGRADED COMMUNITY HEALTH CENTRE,  
 LABBAIKUDIKADU-621108.

### Details of Device Under Calibration (DUC)

Description : BIO CHEMISTRY ANALYZER  
 Range :  
 Least Count :  
 C Condition : SATISFACTORY

Make & Model : ROBONIK & PRIETEST TOUCH  
 Sr. No : ATCD2411220RBK  
 Asset No :  
 Location : LAB

### Environmental Conditions & Calibration Procedure Details

Environmental Details : Temperature: 25.5° C, Relative Humidity : 53% RH  
 Calibration Procedure No : SSS/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	Ma-210809-17-3	10-06-2022

### RESULTS

S.no	Specification	Measured values in $\Omega$	Allowable limit in $\Omega$	Uncertainty in $\Omega$ (%)	Remarks
1	Earth Bond Resistance	0.225	<20	0.02	PASS Remarks: FAIL
2	Insulation Resistance	29.0	>2M $\Omega$	3.44	PASS Remarks: FAIL
3	Earth Leakage (NC)	154	<5000 $\mu$ A for B,BF,CF	16.45	PASS Remarks: FAIL
4	Earth Leakage (SFC)	121	<10000 $\mu$ A for B,BF,CF	15.21	PASS Remarks: FAIL
5	Enclosure Leakage (NC)	9	<100 $\mu$ A for B,BF,CF	3.20	PASS Remarks: FAIL
6	Enclosure Leakage (SFC)	214	<500 $\mu$ A for B,BF,CF	18.98	PASS Remarks: FAIL

### 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

*[Signature]*  
 Calibration Engineer/  
 C SIVABALAN

Authorized Signatory

*[Signature]*  
 Quality Manager  
 (D VETRI SELVI)

Chief Executive



SUNSHINE BIOMEDICAL SOLUTIONS

No:68, First floor, Poomagal Main Road, Ekattuhangal, Chennai - 600 032, Tel: 044 - 2225 2087

vivo Y20s

2023.09.30 11:49



# CALIBRATION CERTIFICATE

Page No: 1 of 1

Certificate No: SBS/CL/22-23/04441  
GOVERNMENT UPGRADED COMMUNITY HEALTH CENTRE  
LARBIAKUDIRADU-621108

SER No.	SBS/SER/22-23/0082-014
SER Date	02-06-2022
Date of Receipt	02-06-2022
Date of Calibration	06-06-2022
Due Date for Calibration	05-06-2023
Issue Date	06-06-2022

### Details of Unit Under Calibration

Description	Micro Pipette	Make	THERMO SCIENTIFIC
Range	5-50µL	Model	PINNIPETTE P3
Resolution	0.1µL	Material	PVC
Serial Number	NW12565	Operating Range	5-50µL
ID Number		Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LAB

### Calibration Method Used

Environmental Condition	
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. / SL No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Semi Micro Balance	15112938	TVCSPP/21/2/1597-01	A&D & CH-252	National Standards	10-12-2022

### Result of Calibration in µL

SI No.	Nominal Value	Observed Readings						Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
		1	2	3	4	5	6				
1	10	9.86	9.84	9.82	9.80	9.86	9.84	-0.16	0.02	0.47	
		9.84	9.86	9.85	9.86	9.84					
2	30	29.94	29.92	29.94	29.96	29.94	29.94	-0.06	0.02	0.47	
		29.91	29.93	29.94	29.96	29.92					
3	50	49.92	49.91	49.94	49.91	49.89	49.93	-0.07	0.02	0.47	
		49.96	49.92	49.94	49.96	49.94					

### 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 Water conforming Grade3 as specified in ISO 3696
- Calibration Liquid Used: Distilled Water conforming Grade3 as specified in ISO 3696

Checked & Issued by:

*(Signature)*  
(Calibration Engineer)  
M.BALAJI



Authorized by:  
(Quality Manager/Chief Executive)  
D.VETRI SELVI