

CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/01696

Page No : 1 of 1

ULR NO : CC34042300001696F

Customer Name & Address

REGIONAL RESEARCH INSTITUTE OF UNANI MEDICINE, NO.1,WEST MADHA CHURCH ROAD,ROYAPURAM,CHENNAI-600013.	SRF No.	SRF/23/00034-0001
	SRF Date	01-03-2023
	Date of Receipt	01-03-2023
	Date of Calibration	01-03-2023
	Due Date for Calibration	28-02-2024
	Issue Date	04-03-2023

Details of Unit Under Calibration

Description	Micro Pipette	Make	BIOHIT-SARTORIUS
Range	100-1000µl	Model	PROLINE
Resolution	5µl	Material	PVC
Serial Number	14517505	Operating Range	500µl
ID Number	RRIUMC EQ BC 011	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	INSTRUMENTATION ROOM,DEPT. OF BIOCHEMISTRY

Environmental Condition

Calibration Method Used

Temperature (°C)	24.8	Humidity (%RH)	53	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	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	99.92	99.94	99.93	99.93	99.96	99.95	-0.05	0.02	0.47
		99.94	99.95	99.96	99.95	99.98				
2	500	499.88	499.87	499.88	499.87	499.89	499.89	-0.11	0.01	0.47
		499.89	499.89	499.90	499.90	499.91				
3	1000	999.77	999.78	999.75	999.76	999.77	999.76	-0.24	0.02	0.47
		999.75	999.75	999.73	999.78	999.80				

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)
 F.MYLSAMY



Authorised by:

 (Quality Manager/Chief Executive)
 D.VETRI SELVI

SUNSHINE BIOMEDICAL SOLUTIONS



CC-2144

CERTIFICATE OF CALIBRATION

FT-Q-25		Page 1 of 2	
ULR No.	: CC214422000007634F	Date of Issue	: 12-12-2022
Certificate No.	: TVCSPL 22/12/2115-01	Recom. Due Date	: 09-12-2023
Date of Calibration	: 10-12-2022	Customer Details	: M/s.Sunshine Biomedical Solutions, No.68, Poomagal Main Road, First Floor, Ekkatuthangal, Chennai-600032.
SRF No.	: 2115	Calibrated at	: On-Site
Date of Receipt	: 10-12-2022	Cond. On Receipt	: Satisfactory
Details of Test Instrument:			
Description	: Electronic Weighing Balance	Model No.	: GH-252
Range	: 0 to 101g/ 220g	Serial No	: 15112918
Least Count	: 0.00001 g/0.0001g	Identification No.	: SBS/MLAB/EWB/013
Make	: A&D	Class(OIML)	: Class I
Working range	: --	Location	: Mechanical Lab
Verification Interval(e)	: 0.0001g/0.001g		
Details of Standard Used			
Name	Certificate No.	Valid upto	Traceability
E1 Class Standard Weights	TVCSPL 22/05/694-03	03-May-23	TVCSPL, Chennai.
Work Instruction	: WI-M-01		
Environmental Details	: Temperature: 25±5 °C	Relative Humid	: 40-70 % RH

MECHANICAL CALIBRATION

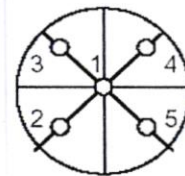
(Weighing Scale & Balance)

Calibration Results

1. Eccentricity

Sr. No.	Position of Weights used	Test Reading (g)	Error between centre(1) and Other points (g)
1	3	50.00002	0.00001
2	4	50.00001	0.00000
3	1	50.00001	0.00000
4	2	50.00002	-0.00001
5	5	50.00002	-0.00001

Maximum Error between centre (1) and other points
0.00001 g



Calibrated by :
K. Kameshwaran
Mr.K.Kameswaran
(Calibration Engineer)

Authorised by:
Anand Manoharan
Mr.Anand Manoharan
(QM & TM)

