

## CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/02060 Page No: 1 of 1

ULR NO : CC34042300002060F

**Customer Name & Address**

REGIONAL RESEARCH INSTITUTE OF UNANI MEDICINE, NO.1,WEST MADHA CHURCH ROAD,ROYAPURAM,CHENNAI-600013.	SRF No.	SRF/23/00034-0009
	SRF Date	07-03-2023
	Date of Receipt	07-03-2023
	Date of Calibration	07-03-2023
	Due Date for Calibration	06-03-2024
	Issue Date	07-03-2023

**Details of Unit Under Calibration**

Description	Micro Pipette	Make	ERBAPETTE
Range	50-200µl	Model	NA
Resolution	1µl	Material	PVC
Serial Number	HR64231	Operating Range	100µl
ID Number	RRIUMC EQ BC 010	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	INSTRUMENTATION ROOM,DEPT. OF BIOCHEMISTRY

Environmental Condition				Calibration Method Used	
Temperature (°C)	24.5	Humidity (%RH)	51	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 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	50	49.94	49.96	49.97	49.95	49.98	49.96	-0.04	0.01	0.47
		49.96	49.98	49.97	49.96	49.95				
2	100	99.83	99.85	99.87	99.86	99.84	99.86	-0.14	0.02	0.47
		99.84	99.86	99.88	99.87	99.89				
3	200	199.75	199.77	199.78	199.74	199.76	199.76	-0.24	0.01	0.47
		199.76	199.78	199.75	199.74	199.77				

**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)  
 P.MYILSAMY



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



CC-2144

**CERTIFICATE OF CALIBRATION**

FT-Q-25		Page 1 of 2	
ULR No. :	CC214422000007634F	Date of Issue :	12-12-2022
Certificate No. :	TVCSP 22/12/2115-01	Recom. Due Date :	09-12-2023
Date of Calibration :	10-12-2022	Customer Details :	SRF No. : 2115
M/s.Sunshine Biomedical Solutions, No.68, Poomagal Main Road, First Floor, Ekkatuthangal, Chennai-600032.		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	TVCSP 22/05/694-03	03-May-23	TVCSP, Chennai.
Work Instruction :	WI-M-01		
Environmental Details :	Temperature: 25±5 °C	Relative Humid	40-70 % RH

**MECHANICAL CALIBRATION**

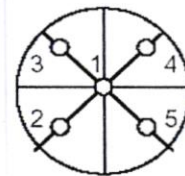
(Weighing Scale & Balance)

**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)

