

CALIBRATION CERTIFICATE

Certificate No: SBS/CL/23/13089		Page No: 1 of 1	
Customer Name & Address			
GOVERNMENT UPGRADED PRIMARY HEALTH CENTRE, KELIANUR 624102, VILLUPURAM DISTRICT.		SRF No.	SRF/23/00550-0005
		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	THORMO SCIENTIFIC
Range	10-100ul	Model	FIRNPIPEPTE P5
Resolution	0.2ul	Material	PVC
Serial Number	PW03412	Operating Range	10-100ul
ID Number	NA	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	LABORATORY

Environmental Condition		Calibration Method Used	
Temperature (°C)	23.7	Humidity (%RH)	56
Atmospheric Pressure (mbar)	1036	Water Temperature (°C)	21.6
		National / International Standard	ISO 9005-6:2002
		Cal Procedure No	SBS/CL/08

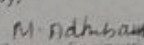
Standard Used						
SI. No.	Description	ID.No. / SI. No.	Certificate No.	Make/Model	Traceability	Valid till
	Electronic Weighing Balance	15112918	TVCSP/22/12/2115-01	A&D & CH-252	National Standards	09-12-2023

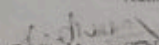
Z Factor: 1.00319

Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	10.0	9.94	9.97	9.95	9.96	9.93	9.95	-0.05	0.02	0.47	
		9.98	9.95	9.92	9.97	9.96					
2	50.0	49.85	49.86	49.87	49.82	49.83	49.85	-0.15	0.02	0.47	
		49.87	49.85	49.82	49.89	49.87					
3	100.0	99.85	99.87	99.85	99.84	99.89	99.87	-0.13	0.02	0.47	
		99.89	99.87	99.89	99.87	99.90					

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 or Deionized water conforming Grade3 as specified in ISO 3696

Calibrated By:

 (Calibration Engineer)
 MADHBAN

Authorised by:

 Quality Manager/Chief Executive
 CSIVABALAN

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