



CALIBRATION CERTIFICATE

Certificate Number : MES/180122/C4 ULR Number : CC254322000000051P
Customer Details : SEVENA HITECH LAB, PARAPPUR, THRISSUR.
Date of Calibration : 18/01/2022 Date of SRF : 18/01/2022
Next Calibration Due : 17/01/2023 Date of Issue : 18/01/2022

DETAILS OF DEVICE UNDER CALIBRATION(DUC)

Nomenclature : Micropipette Serial No. : YE5A425926
Make / Model : DRAGON LAB ID No. : -
Equipment Condition : Good Resolution : 0.5 µl
Range : 5-50µL Location : BIOCHEMISTRY

DETAILS OF MASTER EQUIPMENT USED

Nomenclature : Electronic Precision Balance Range : 0 – 210 gm
Make : Boeco Readability : 0.01/0.1 mg
Model : BBC-22 Serial No. : 27104178
Certificate No. : TVSPL21/10/227-01 Calibration Due Date : 05.10.2022

ENVIRONMENTAL CONDITIONS

Temperature(°C)	Relative Humidity (%)	Atmospheric Pressure (mbar)	Water Temperature(°C)
26.5	56	1004	26.6

CALIBRATION RESULTS

Sl. No.	Discipline : Set Volume	Mechanical			Parameter		Volume	
		Standard Value	Systematic Error	Acceptable Systematic Error	Random Error	Acceptable Random Error	Expanded Uncertainty	
	µl	µl	µl	± µl	µl	± µl	± µl	
1	5*	5.02*	-0.02*	0.13*	0.05*	0.08*	0.420*	
2	25	25.02	-0.02	0.50	0.07	0.20	0.434	
3	50	50.32	-0.32	0.50	0.07	0.20	0.432	

- Notes: -
- The results in this certificate are only related to DUC submitted calibration and valid at the time of calibration under stated condition of measurements
 - The measurement uncertainty is estimated at a confidence level of 95.45% with coverage factor k=2.
 - Results in this certificate shall not be reproduced except in full without the written approval of this centre.
 - Next calibration due date is mentioned as per customer requirement.
 - Calibration certificate issued for scientific or industrial purpose only.
 - Acceptable error limit is given as per ISO 8655-2:2002(E) Guidelines
 - Calibration is carried out as per ISO 8655-6 Guidelines; MES work procedure: MES/WP/VOLUME.
 - The tests and /or Calibration marked with an * are not accredited by NABLS

Calibrated by

Prabin KP
(Calibration Engineer)



Authorized Signatory

Binoj Thomas
(Technical Manager)