



CC-2725

**CERTIFICATE OF CALIBRATION**

Certificate No: CC-2223-L-244/01

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Customer Name & Address M/s. NAALVAR DIAGNOSTICS New No.22, Old No.23, Neelakidangu St, Karaikal - 609 602.	ULR No.	CC272522000004644P
	SRF No.	VCI-2223-L-244
	Date of Receipt	28.03.2022
	Date of Calibration	28.03.2022
	Due Date for Calibration	27.03.2023
	Date of Issue	29.03.2022

Details of Unit under Calibration

Description	Micro Pipette	Make	Dragon Lab
Range	5 - 50 μ l	Model	--
Resolution	0.5 μ l	Material	pvc
Serial Number	YE17BAG0056408	Operating Range	5- 50 μ l
ID Number	ND/QSP/07	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	--

Environmental Condition				Calibration Method Used	
Temperature ($^{\circ}$ C)	23 \pm 2	Humidity (%RH)	55 \pm 15	National / International Standard	ISO 8655-6:2002, ISO 8655-2:2002
Atmospheric Pressure (mbar)	1006	Water Temperature ($^{\circ}$ C)	21.6	Cal Procedure No	VCI-L03-WI-MASS-003

Standard Used

Sl. No.	Description	ID.No. / SI. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Semi Micro Balance	VCI-M-WB-017 / 55492	CC-21-22-S-994/01	Wensar / MAB 250	National Standards	14.10.2022

Z Factor: 1.00319

Result of Calibration in μ l											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (\pm)	
1	5	5.05	5.07	5.11	5.04	5.06	5.08	0.08	0.04	0.20	
		5.02	5.09	5.13	5.10	5.11					
2	25	25.13	25.17	25.23	25.28	25.33	25.24	0.24	0.08	0.20	
		25.15	25.19	25.25	25.31	25.35					
3	50	50.37	50.41	50.45	50.49	50.53	50.46	0.46	0.06	0.20	
		50.39	50.43	50.47	50.51	50.55					

Note: Conformity Statement

Pass: Fail: **Remarks**

- UUC is Defined as the Unit Under Calibration.
- The Measurement uncertainty is expressed at 95.45% confidence level with coverage factor $k=2$.
- This Calibration Certificate relates only to the above UUC & Reported results are valid at the time of and under the stated conditions of measurements.
- Calibration of the UUC are traceable to National / International Standards.
- This report shall not be reproduced in full/ part without prior permission of Venus Calibration and Instruments.
- The recalibration interval shall be determined on the user requirements.
- Nabl-133 guidelines are adopted for use of NABL symbol.
- Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.
- Our Nabl Scope is Upto 10 μ l to 10ml.
- The Deviation is within MPE, So after calibration is not required.

Checked & Issued by:

M. Manju
M.Manju

(Engineer - Calibration)



Authorised by:

C.Dhinakaran

(Technical / Quality Manager)

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