



CC-2725

**CERTIFICATE OF CALIBRATION**

Certificate No: CC-22-23-L-297/02

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Customer Name & Address M/s. Life Care Diagnostics 11, Vaithyanatha Iyyer, 1st Street, Madurai - 625 020.	ULR No.	CC272522000004786F
	SRF No.	VCI-22-23-L-297
	Date of Receipt	05.07.2022
	Date of Calibration	06.07.2022
	Due Date for Calibration	05.07.2023
	Date of Issue	07.07.2022

**Details of Unit Under Calibration**

Description	Micro Pipette	Make	ThermoScientific
Range	100 - 1000µl	Model	Finnpipette F3
Resolution	1 µl	Material	pvc
Serial Number	RW02179	Operating Range	100 - 1000µl
ID Number	LCD/MDU/MOL/EQP/20	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	Molecular Biology Lab

Environmental Condition				Calibration Method Used	
Temperature (°C)	23±2	Humidity (%RH)	55±15	National / International Standard	ISO 8655-6:2002, ISO 8655-2:2002
Atmospheric Pressure (mbar)	1006	Water Temperature (°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 µl**

Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	100	100.02	100.03	100.11	100.15	100.19	100.11	0.11	0.07	0.20
		100.05	100.06	100.13	100.17	100.21				
2	500	500.23	500.27	500.32	500.37	500.42	500.33	0.33	0.07	0.88
		500.25	500.29	500.35	500.39	500.45				
3	1000	1000.47	1000.51	1000.55	1000.59	1000.65	1000.57	0.56	0.07	0.88
		1000.49	1000.53	1000.57	1000.62	1000.67				

**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 10µl 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)

No.16, 6th Street, Annai Sathya Nagar, Poothapedu Ramapuram, Chennai - 89.

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