



CC-2725

**CERTIFICATE OF CALIBRATION**

Page No: 1 of 1

Certificate No: CC-23-24-L-058/01 Customer Name & Address M/s. Medical Officer Government Primary Health Centre Kallur Pettai, Tirunelveli.	ULR No.	CC27252300001293F
	SRF No.	VCI-23-24-L-058
	Date of Receipt	11.03.2023
	Date of Calibration	11.03.2023
	Due Date for Calibration	10.03.2024
	Date of Issue	13.02.2023

Description		Micro Pipette	Make	ThermoScientific
Range	100 - 1000 µl		Model	Finnpipette F3
Resolution	1 µl		Material	pvc
Serial Number	QW14032		Operating Range	100 - 1000 µl
ID Number	--		Condition of UUC	Good
Cal. At	Mechanical Lab		Instrument Location	--

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

SI. No.	Description	ID.No. / SI. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Semi Micro Balance	VCI-M-WB-017 / 55492	CC-22-23-S-852/01	Wensar / MAB 250	Venus Calibration CC-2725	12.10.2023

Result of Calibration in µl											
SI. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	100	100.02	100.04	100.07	100.11	100.15	100.08	0.08	0.06	0.88	
		100.05	100.01	100.09	100.13	100.17					
2	500	500.19	500.25	500.29	500.35	500.39	500.31	0.31	0.07	0.88	
		500.23	500.27	500.32	500.37	500.41					
3	1000	1000.42	1000.47	1000.51	1000.55	1000.59	1000.52	0.52	0.06	0.88	
		1000.45	1000.49	1000.53	1000.57	1000.62					

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.

Checked & Issued by:

R.B.
R.Bhuvaneshwari
(Engineer - Calibration)

*****END OF THE CERTIFICATE*****



Authorised by:

C.Dhinakaran
(Technical / Quality Manager)

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

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**CERTIFICATE OF CALIBRATION**

Certificate No: CC-23-24-L-058/02

Page No : 1 of 1

Customer Name & Address M/s. Medical Officer Government Primary Health Centre Kallur Pettai, Tirunelveli.	ULR No.	CC272523000001294P
	SRF No.	VCI-23-24-L-058
	Date of Receipt	11.03.2023
	Date of Calibration	11.03.2023
	Due Date for Calibration	10.03.2024
	Date of Issue	13.02.2023

Details of Unit under Calibration

Description	Micro Pipette	Make	Thermo Scientific
Range	5 - 50µl	Model	FinnPipette F3
Resolution	0.5µl	Material	pvc
Serial Number	QW14533	Operating Range	5- 50µl
ID Number	--	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	--

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-22-23-S-852/01	Wensar / MAB 250	Venus Calibration CC-2725	12.10.2023

Z Factor: 1.00319

Result of Calibration in µl										
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)
1	5	5.05	5.02	5.00	5.07	5.12	5.06	0.06	0.05	0.20
		5.03	5.01	5.05	5.09	5.15				
2	25	25.17	25.20	25.25	25.29	25.35	25.26	0.26	0.07	0.20
		25.19	25.23	25.27	25.32	25.37				
3	50	50.39	50.43	50.47	50.51	50.55	50.48	0.48	0.06	0.20
		50.41	50.45	50.49	50.53	50.57				

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:

R.B.

R.Bhuvanehwari

(Engineer - Calibration)



Authorised by:

C.Dhinakaran

(Technical / Quality Manager)

*****END OF THE CERTIFICATE*****

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CERTIFICATE OF CALIBRATION

Page No: 1 of 1

Certificate No: CC-23-24-L-058/03 Customer Name & Address M/s. Medical Officer Government Primary Health Centre Kallur Pettai, Tirunelveli.	ULR No.	CC272523000001295F
	SRF No.	VCI-23-24-L-058
	Date of Receipt	11.03.2023
	Date of Calibration	11.03.2023
	Due Date for Calibration	10.03.2024
	Date of Issue	13.02.2023

Details of Unit Under Calibration		
Description	Micro Pipette	Make ThermoScientific
Range	10-100 µl	Model Finnpiptette F3
Resolution	1 µl	Material pvc
Serial Number	QW13613	Operating Range 10 - 100µl
ID Number	--	Condition of UUC Good
Cal. At	Mechanical Lab	Instrument Location --

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)	21.4	Cal Procedure No	VCI-L03-WI-MASS-003

Standard Used						
SI. No.	Description	ID.No. / SI. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Semi Micro Balance	VCI-M-WB-017 / 55492	CC-22-23-S-852/01	Wensar / MAB 250	Venus Calibration CC-2725	12.10.2023

Z Factor: 1.00319

Result of Calibration in µl											
SI. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	10	10.02	10.05	10.11	10.15	10.19	10.11	0.11	0.07	0.20	
		10.03	10.09	10.13	10.17	10.20					
2	50	50.25	50.29	50.35	50.39	50.45	50.36	0.36	0.08	0.20	
		50.27	50.32	50.37	50.42	50.47					
3	100	100.49	100.55	100.59	100.65	100.69	100.61	0.61	0.08	0.20	
		100.52	100.57	100.62	100.67	100.72					

Note: Conformity Statement

Pass:

Fail:

Remarks

- UUC is Defined as the Unit Under Calibration.
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Checked & Issued by:

R.B. (Signature)
R.Bhuvaneshwari

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