






CC-2725



## CERTIFICATE OF CALIBRATION

Certificate No: CC-22-23-L-499/02				Page No: 1 of 1							
<b>Customer Name &amp; Address</b> M/s. MEDLINE DIAGNOSTICS (PVT) LTD. No. 23-A, Thennur High Road, Tiruchirappalli, Tamil Nadu - 620 017.				ULR No.		CC27252200008204P					
				SRF No.		VCI-22-23-L-499					
				Date of Receipt		06.12.2022					
				Date of Calibration		06.12.2022					
				Due Date for Calibration		05.12.2023					
				Date of Issue		07.12.2022					
<b>Details of Unit Under Calibration</b>											
Description		Micro Pipette		Make		ThermoScientific					
Range		2-20µl		Model		Finnpipette F3					
Resolution		0.02 µl		Material		pvc					
Serial Number		MW13608		Operating Range		2-20µl					
ID Number		--		Condition of UUC		Good					
Cal. At		Mechanical Lab		Instrument Location		--					
<b>Environmental Condition</b>				<b>Calibration Method Used</b>							
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				
<b>Standard Used</b>											
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	National Standards	12.10.2023				
<b>Z Factor: 1.00319</b>											
<b>Result of Calibration in µl</b>											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	2	2.05	2.03	2.11	2.06	2.10	2.07	0.07	0.04	0.20	
		2.04	2.01	2.13	2.09	2.06					
2	10	9.99	9.97	9.95	9.92	9.90	9.94	-0.06	0.03	0.20	
		9.98	9.96	9.93	9.91	9.89					
3	20	19.85	19.80	19.75	19.70	19.68	19.75	-0.25	0.07	0.20	
		19.83	19.79	19.71	19.69	19.65					
<b>Note: Conformity Statement</b>											
Pass: <input checked="" type="checkbox"/>		Fail: <input type="checkbox"/>									
<b>Remarks</b>											
<ol style="list-style-type: none"> <li>1. UUC is Defined as the Unit Under Calibration.</li> <li>2. The Measurement uncertainty is expressed at 95.45% confidence level with coverage factor <math>k=2</math>.</li> <li>3. This Calibration Certificate relates only to the above UUC &amp; Reported results are valid at the time of and under the stated conditions of measurements.</li> <li>4. Calibration of the UUC are traceable to National / International Standards.</li> <li>5. This report shall not be reproduced in full/ part without prior permission of Venus Calibration and Instruments.</li> <li>6. The recalibration interval shall be determined on the user requirements.</li> <li>7. Nabl-133 guidelines are adopted for use of NABL symbol.</li> <li>8. Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.</li> <li>9. Our Nabl Scope is Upto 10µl to 10ml.</li> <li>10. The Deviation is within MPE, So after calibration is not required.</li> </ol>											
<b>Checked &amp; Issued by:</b>											
 R. Bhuvaneshari (Engineer - Calibration)							 Chennai-89 2476 0533				
							<b>Authorised by:</b>  C. Dhinakaran (Technical/Quality Manager)				



CC-2725

**CERTIFICATE OF CALIBRATION**

Certificate No: CC-22-23-L-499/03

Page No: 1 of 1

Customer Name & Address <b>M/s. MEDLINE DIAGNOSTICS (PVT) LTD.</b> No. 23-A, Thennur High Road, Tiruchirappalli, Tamil Nadu - 620 017.	ULR No.	CC272522000008205F
	SRF No.	VCI-22-23-L-499
	Date of Receipt	06.12.2022
	Date of Calibration	06.12.2022
	Due Date for Calibration	05.12.2023
	Date of Issue	07.12.2022

**Details of Unit Under Calibration**

Description	Micro Pipette	Make	ThermoScientific
Range	20 - 200µl	Model	Finnpipette F3
Resolution	0.2 µl	Material	pvc
Serial Number	RW15746	Operating Range	20 - 200 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

**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	National Standards	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	20	20.05	20.06	20.14	20.18	20.11	20.11	0.11	0.06	0.20	
		20.17	20.01	20.12	20.16	20.14					
2	100	100.15	100.19	100.22	100.25	100.29	100.23	0.23	0.05	0.20	
		100.17	100.20	100.23	100.27	100.31					
3	200	200.38	200.45	200.34	200.33	200.45	200.40	0.40	0.05	0.88	
		200.39	200.36	200.37	200.42	200.46					

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 &amp; Issued by:

R. Bhuvaneshwari

(Engineer - Calibration)

Authorised by:

C. Dhinakaran

(Technical/Quality Manager)



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