



CC-2725

**CERTIFICATE OF CALIBRATION**

Certificate No: CC-22-23-L-436/02

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Customer Name & Address M/s. MALAR DIAGNOSTICS NO. 3/129, A Pillayar Koil Street, K.R.R Complex, Kelambakkam - 603 103.	ULR No.	CC27252200007022F
	SRF No.	VCI-22-23-L-436
	Date of Receipt	06.09.2022
	Date of Calibration	06.09.2022
	Due Date for Calibration	05.09.2023
	Date of Issue	07.09.2022

Details of Unit Under Calibration

Description	Micro Pipette	Make	Biohit Proline
Range	10 - 100 µl	Model	-
Resolution	1 µl	Material	pvc
Serial Number	9099521	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

Sl. No.	Description	ID.No. / Sl. 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	10	10.01	10.02	10.06	10.09	10.13	10.07	0.07	0.05	0.20	
		10.03	10.04	10.07	10.11	10.15					
2	50	50.17	50.19	50.25	50.29	50.35	50.26	0.26	0.07	0.20	
		50.18	50.22	50.27	50.32	50.37					
3	100	100.39	100.45	100.49	100.53	100.57	100.50	0.50	0.07	0.20	
		100.42	100.47	100.51	100.55	100.59					

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)

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