

CALIBRATION CERTIFICATE

Certificate No : 393096/7

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Customer Name & Address	N Laboratories t/a MBFi	Date of Calibration	27/01/2025
	Plot 144 Avenue 2, Modder East	Due Date	26/01/2026
	Orchards, Delmas 2210	Date Issue	27/01/2025

DETAILS OF UNIT UNDER CALIBRATION (UUC)

Name of Instrument	: Micropipette	Identification No.	: SJ54564
Make	: Gilson	Serial no.	: SJ54564
Model	: 10-100µl	Accuracy	:
Range	: 10 to 100 µL	Location	: Labfix
Resolution/Least Count	: 0.2 µL	Condition of Instrument	: Satisfactory
Calibration Location	: In House	Calibration Procedure	: CM03

Environmental Conditions:	Temperature : 24.8 °C	Humidity: 66.3 %RH
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DETAILS OF MASTER EQP USED FOR CALIBRATION

Instrument	Serial No.	Certificate No.	Expiry Date
Analytical Balance	LCA 11/62	185943	20/09/2025
Barometer	23020795077	181744	31/03/2025
Digital Thermometer	LCA 11/440	190883	15/11/2025

DISCIPLINE : Mechanical - Volume

Calibration Results

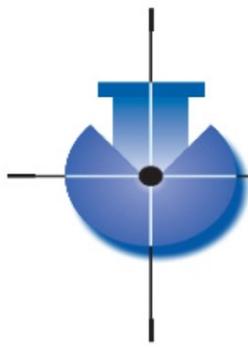
Nominal Value	Measured Mass of Distilled water	Actual Volume Delivered	Expanded Uncertainty (±)
µL	g	µL	µL
10.0	0.01021	10.2	0.3
50.0	0.05047	50.5	0.6
100.0	0.10005	100.1	0.6

Notes :

- . The results reported relate only to the calibration item/s mentioned above.
- . The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2, which provides a level of confidence of approximately 95%, the uncertainty of measurement has been estimated in accordance with the principles defined in the GUM, Guide to Uncertainty of Measurement, ISO, Geneva, 2008.
- . The results reflected on this certificate was entered directly on the PC.



Calibrated By	Technical Signatory
Kajodhaparsadh	Seshum Naidoo
Calibration Technician	Metrologist



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VALIDITY/CONDITIONS OF CALIBRATION

1. The values of this certificate and its results were correct at the time of calibration. Subsequent accuracy will depend on various factors such as handling, frequency of use, operating temperature and operation other than specified by the manufacturer.
2. It is recommended that re-calibration be undertaken at an interval that will ensure that the instrument remains within the desired limits. The results of the measurements are traceable to the national or international measurement standards.
3. The uncertainty limits quoted refer to the measured values only, with no account being taken of the instruments ability to maintain its calibration.
4. In the event of any erroneous calibration / certification of work performed for the applicant, any legal liability arising shall be limited to the cost of re-calibration and / or certification. LABFIX will not be held responsible for any claims, consequential damage or loss.
5. The calibration status expires if the seal is broken, or the instrument is adjusted or tampered with.
6. This certificate may not be reproduced except in full without the written approval of LABFIX.

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Kajodhaparsadh	Seshum Naidoo
	
Calibration Technician	Metrologist