



C and I Calibrations Pvt. Ltd.

(NABL Accredited Testing & Calibration Laboratory)

J-448, Sitapura Industrial Area, Jaipur-302022 (Rajasthan) India

Phone : 0141-2771849

e-mail : infocicpl@gmail.com, ashokpatnijain@gmail.com, web: www.cicpl.in



CC-2216

CALIBRATION CERTIFICATE

C&IJ/FOR/11

Certificate No.: C&IJ/CAL/21-04/012

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Name and address of customer :-	M/s. Vishwakarma Pathology Laboratory, X-Ray & ECG Nagar Palika Road, Nr. Govt. Hospital, Sumerpur(Pali), Rajasthan-306902.
Reference	
Customer Reference Number :-	Letter Dt. 05.04.2021
Date of receipt of UUC :-	April 6, 2021
Condition of UUC :-	Physically O. K.
Location of calibration :-	Lab.
Calibration Certificate Details	
Date of issue :-	April 8, 2021
Date of calibration :-	April 8, 2021
Suggested Due Date :-	April 8, 2022
ULR No. :-	CC221621000000777F
Description of unit under calibration	
Name :-	micro Pipette
Serial No. :-	MP/10-100/01
Make :-	Human
Model :-	-----
Range & Accuracy :-	10 -100 μ l LC 0.5 μ l
Environmental conditions of measurements:-	
Temperature :-	25 \pm 3°C
Relative Humidity :-	50 \pm 10%

NOTE:

1. This calibration certificate refers only to the particular item submitted for calibration.
2. This certificate shall not be reproduced except in full, unless written permission for the publication of an approved abstract has been obtained from C and I Calibrations, Jaipur.
3. The calibration results reported in this certificate are valid at the time of an under stated condition of measurement.

CALIBRATED / CHECKED BY



AUTHORISED SIGNATORY

Satish Trivedi
Quality Manager

CERTIFICATE OF CALIBRATION

NABL Accredited Calibration Laboratory
In Electro-Technical, Mechanical,
Thermal & Flow

Issued By:
C and I Calibrations Pvt. Ltd.
Jaipur



CC-2216

Certificate No.: C&IJ/CAL/21-04/012
ULR No. : CC221621000000777F

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Description of standards used for calibration :-				
Reference standard	Calibration valid	Certificate No.	Traceability	Parameter
Standrad Weight with Digital Balance Sr. No.: WB-01 Model: E2 Class Make: Weigh India	24-Sep-23	BBT/046/JUL/20	National Standard through NABL Accreditation CC-3082	Mass

Calibration procedure:	C&IJ/PROC/82
Comparison Method At least 4 measurements were made for each calibration point and an average of these was reported in the results at 27 °C.	

Mechanical Calibration

Calibration data:

Mass (Volume)

Marked Value On UUC (M)	Avg. Value of Standrad At 27°C (S)	Error (M-S)
μl	μl	μl
10.00	10.03	-0.03
50.00	50.06	-0.06
100.00	100.08	-0.08

Reading are converted by weight & density of liquid used.

Uncertainty of measurement (at 95% approx. confidence level, $k=2$): $\pm 0.20 \mu\text{l}$

Results: For Status refer above calibration data

REMARKS :-

- For $k=2.00$
The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2.00$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with NABL requirements.
- For $k \neq 2.00$
The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k , for which a t-distribution corresponds to a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with NABL requirements.
- The reported uncertainty applies only to the measured values and gives no indication of the long term stability of device.
- Any anomaly/discrepancy in this calibration certificate should be brought to our notice within 45 days from the date of issue.
- The calibration certificate is valid for scientific and industrial purpose only.

--- End of certificate ---

CALIBRATED/CHECKED BY

AUTHORISED SIGNATORY



Satish Trivedi
Quality Manager



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Certificate No.: C&I/CAL/21-04/013

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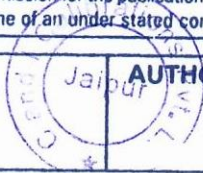
Name and address of customer	:-	M/s. Vishwakarma Pathology Laboratory, X-Ray & ECG Nagar Palika Road, Nr. Govt. Hospital, Sumerpur(Pali), Rajasthan-306902.
Reference		
Customer Reference Number	:-	Letter Dt. 05.04.2021
Date of receipt of UUC	:-	April 6, 2021
Condition of UUC	:-	Physically O. K.
Location of calibration	:-	Lab.
Calibration Certificate Details		
Date of issue	:-	April 8, 2021
Date of calibration	:-	April 8, 2021
Suggested Due Date	:-	April 8, 2022
ULR No.	:-	CC221621000000778F
Description of unit under calibration		
Name	:-	micro Pipette
Serial No.	:-	MP/100-1000/01
Make	:-	Human
Model	:-	-----
Range & Accuracy	:-	100 - 1000 μ l
		L.C: 5 μ l
Environmental conditions of measurements:-		
Temperature	:-	25 \pm 3 $^{\circ}$ C
Relative Humidity	:-	50 \pm 10%

NOTE:

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Satis Trivedi
Quality Manager

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Calibration procedure: C&I/PROC/82
Comparison Method At least 4 measurements were made for each calibration point and an average of these was reported in the results at 27 °C.

Calibration data: Mass (Volume)

Marked Value On UUC (M)	*Avg. Value of Standrad At 27°C (S)	Error (M-S)
µl	µl	µl
100	100.58	-0.58
500	501.25	-1.25
1000	1002.38	-2.38

Reading are converted by weight & density of liquid used.

Uncertainty of measurement (at 95% approx. confidence level, $k=2$): $\pm 0.25 \mu\text{l}$

Results: For Status refer above calibration data

REMARKS :-

- For $k=2.00$
The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2.00$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with NABL requirements.
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- The reported uncertainty applies only to the measured values and gives no indication of the long term stability of device.
- Any anomaly/discrepancy in this calibration certificate should be brought to our notice within 45 days from the date of issue.
- Calibration of Glassware usage is limited to scientific and industrial purpose only, not applicable for any commercial aspects.

--- End of certificate ---

CALIBRATED/CHECKED BY 		AUTHORISED SIGNATORY Satish Trivedi Quality Manager
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