



CC-2146

Indian Calibration Services

An Exclusive House for Validation & Calibration of Analytical Instruments

304 & 313, Laxmi Deep, District Centre, Near Nirman Vihar Metro Station, Laxmi Nagar, Delhi-110092

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CALIBRATION CERTIFICATE

Page 1 of 1

CALIBRATION CERTIFICATE OF MICROPIPETTE

Certificate No:	21700000018	Issued On:	06/01/2021
ULR No:	CC214621700000018F	Calibration Date:	05/01/2021
Job Identification No:	ICS/C/MVD/01/18	Next Calibration Date:	04/01/2022
Ref. No:	SRF, Dated - 04/01/2021		

CALIBRATED FOR:

M/s Alaknanda Diagnostic Lab.
H-1, Vikrmaditya Tower, (Basement),
Alaknanda Shopping Complex, Alaknanda, New Delhi-110019.

EQUIPMENT DESCRIPTION

Name	Variable Micropipette		
Make/Model	---	Visual Inspection	Ok
Serial No.	YE4A217917	I.D. No.	---
Range	5 μ l - 50 μ l	Least Count	0.5 μ l
Location	---	Calibration Site	In-Lab

ENVIRONMENTAL CONDITIONS

Temperature	25.0 $^{\circ}$ C \pm 3.0 $^{\circ}$ C	Humidity	50 \pm 10 % RH
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STANDARD EQUIPMENT DETAILS

Traceable to National Standards

Name	Make	Certificate No.	Calibration Agency	Calibration Date	Valid Upto
Stainless Steel Wire Weights	E ₁ Class as per OIML recom.	WMCL/E/2020-05/3364	WMCL	31/05/2020	30/05/2023
RTD Sensor with Digital Indicator	Udian	ERTL(N)/2020/AR0878	ERTL (NORTH)	25/02/2020	25/02/2021

USED EQUIPMENT DETAILS

Calibrated Balance, Distilled Water & Glass wares

PRINCIPLE/METHODOLOGY OF CALIBRATION:

As per Calibration Procedure No.: ICS/CAL/SOP-M03 (Gravimetric Method), ISO 8655-6

RESULTS: Mechanical CalibrationBelow Volume is determined at 27 $^{\circ}$ C

U.U.C. Reading (in ml)	Standard Measured Volume (in ml) (Average)	Uncertainty at approx 95% C.L and coverage factor k=2
0.0050 (05.0 μ l)	0.004941 (0004.941 μ l)	\pm 0.3 μ l
0.0250 (25.0 μ l)	0.024905 (0024.905 μ l)	\pm 0.3 μ l
0.0500 (50.0 μ l)	0.049863 (0049.863 μ l)	\pm 0.3 μ l


REMARKS: The recommended date for next calibration is mentioned, as asked by the customer.

END OF REPORT

- Note : 1. This report is not to be reproduced wholly or in part and cannot be used as an evidence in the Court of Law and should not be used in any advertising media without our special permission in writing.
2. The result listed refer only to the tested samples and applicable parameters. Endorsement of products is neither inferred nor implied.
3. Total liability of our Organisation is limited to the invoiced amount.
4. Samples will be destroyed after one month from the date of issue of Calibration Certificate unless otherwise specified.
5. In case any reconfirmation of contents of this Calibration Certificate is required. Please contact our office.
6. The calibration certificate/Test Report is valid only for the condition of the UUC at the time under stated condition of calibration.

For and on behalf of
Indian Calibration Services

Checked by


Authorised Signatory
RAJESH KAPOOR
Operation-Head



NABL/ILAC/0115 CC-2743
Format No.: 7.8-QF-02

Calibration Certificate

Issue Dated: 01-06-2020

Recommended Date for the Next Calibration Mentioned As Per Request of the Customer	Page	No. of Pages
Date: 30-05-2023	-1-	-2-

Certificate No.: WMCL/E/2020-05/3364
ULR - CC27432000000864F

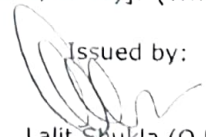
Date of Calibration: 31-05-2020

- Calibrated for : INDIAN CALIBRATION SERVICES
304 & 313, Laxmi Deep,
District Center, Laxmi Nagar,
Near Nirman Vihar Metro Station,
Delhi - 110 092, INDIA
- Customer Reference : RGP No.: NIL, Dated: 21/05/2020
- Description of Instrument : Make - "WEIGHTRONICS"
0.5 g to 0.001 g : Stainless Steel Wire Type Weights
- Identification No : WT/AS-I/2015/2423
- Assumed Density (d) : (7 950 ± 50) kg/m³; (k=2) for Stainless Steel
- Environmental Conditions : Temperature : (23.0 ± 2.0)^oC
: Relative Humidity : (50.0 ± 10.0) %
[Change in Temperature and Relative Humidity during the calibration were less than ± 0.3^oC per hour and ± 5.0 % per 4 hours respectively]
- Standard (s) used : WMCL working standard of mass with uncertainty Better than one-third of the reported uncertainty of measurement
- Traceability Standard (s) : The Standard used for Calibration are Traceable from "NPL" New Delhi, INDIA vide Calibration Certificate No.: 19100739/D1.01/C-117, Dated: 11/12/2019 valid up to Dated: 11/12/2022
- Balance used for Calibration : Precision Balances of Appropriate Accuracy Traceable to Mass Standards
- Methodology of Calibration Adopted : The Method of comparison with standard (s) using Sub - Division Weighing Method from 1 mg to 500 mg (Cal. Procedure No.: WMCL/ Doc-13/Cal- PR-03) and (ABBA or ABA) Weighing Cycle. The Reported Mass Value(s) is (are) the conventional mass value(s) (M_C) related to the true mass value(s) (M_T) by formula: $M_C = M_T [1 - 1.2(1/d - 1/8000)]$. (Where, 'd' is in kg/m³).

Calibrated by:


Arun Pathak
Technical Manager

Issued by:


Lalit Shukla (Q.M.)
Authorized Signatory

