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CALIBRATION CERTIFICATE NO.:MTL / SDC / R03 / 05 - 21

Form No. - MTL/22/2006

CALIBRATION CERTIFICATE OF MICRO PIPETTE



ULR - CC254521000009550F

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11-05-22

1.0 Service Request No.: MTL / 11 / 05 / 21- 22

1.1 Issued to:

M/s. Sun Diagnostic Centre,

IMA Building, Ranihat, Near SCB Medical College,

Cuttack, Odisha - 753007.

1.2 Description &

a) Name:

Micro Pipette

b) Code No.:

SDC / LAB / PIPETTE / 01

Identification of item

c) Sl. No.:

YE168AA0027340

d) Make:

Dragon Lab

to be Calibrated:

e) Model / Type: Micropette

f) Range:

5 μl to 50 μl

g) Sensor:

N.A.

h) Resolution: 0.5 µl

i) End User:

Pathology

N.S.

k) Calibration done at:

j) Accuracy:

1.6 Recommended date of next calibration:

1.3 Date of receipt of item:

10-05-21

On Site / √ In House 1.4 Physical Condition of DUC:

1.5 Date of calibration:

11-05-21

1.7 Date of Issue: 1.8 Environmental Conditions During Calibration:

12-05-21

Temperature:

23 °C ± 2 °C

Humidity:

50 % RH ± 10 % RH

Pressure:

1012.5 mbar

1.9 Method of Calibration:

SOP / MASS / 02 (As Per ISO: 8655 - 6: 2002)

2.0 Traceability:

a)Standards used for calibration are traceable to National standards through NABL Accredited Laboratory. b) The following standards / Equipment have been used.

i) 1 mg to 200 g Weight Box (E1) Cal. Certificate No. WI / May / 19 / 010

(WEIGH INDIA, New Delhi) (Cal. Date: 17/05/19, Due Date: 17/05/22)

ii) Data Acquisition Switch Unit Cal. Certificate No. JRPM - CCTR - ET - 2020 - 0795 (JRPM, Chennai)

(Cal. Date: 01/09/20, Due Date: 31/08/21)

iii) RTD (PT - 100) Cal. Certificate No. TL / 020 / 891.2.1

(TEMPSENS, Udaipur) (Cal. Date: 27/10/20, Due Date: 26/10/21)

2.1 Result:

Mechanical Calibration

Sl. No.	Parameter/ Range	Nominal Value µl	Mass of Water mg	Volume of Water at 20°C µl	Error µl	Measurement Expanded Uncertainty ± µl
1.	Volume	5	4.9740	4.9939	-0.0061	0.039
2.	5 μl to 50 μl	25	24.8873	24.9868	-0.0132	0.39
3.		50	49.7846	49.9837	-0.0163	0.39

Remarks: i) Cubical Expansion co - efficient of pipette material taken as 10⁻⁵ μl / °k.

- ii) This result has an expanded uncertainty with a coverage factor k=2 at approximately 95% confidence level.
- iii) The calibration certificate issued for this instrument is to be used for scientific or industrial purposes only.

DUC - Device Under Calibration

N.S. - Not Specified

N.A. - Not Applicable

Opinions and Interpretations					
Calibrated	√	Accepted / Valid for use			
Limited Use		Rejected / Out of use			





