

MEASURE TECHNO LAB

2, B.T. ROAD (JAYANTI CINEMA COMPLEX), BARRACKPORE, KOLKATA - 700120, W.B.

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CALIBRATION CERTIFICATE OF MICRO PIPETTE

CALIBRATION CERTIFICATE NO.:MTL / SQDPL / R13 / 03 - 24

ULR - CC254524000012791F

1.0 Service Request No.: MTL / 18A / 03 / 23 - 24

1.1 Issued to:

M/s. SpectroQ Diagnostics Pvt. Ltd. Plot No. - 853 / 4786, 1st Floor,

Jharapada, Govinda Prasad, Cuttack Road,

Bhubaneswar, Khordha - 751006.

1.2 Description &

a) Name:

Micro Pipette

b) Code No.:

PPT - 06

Identification of item

c) Sl. No.:

19211480

d) Make:

Avantor

to be Calibrated:

e) Model / Type:

N.S.

f) Range:

1000 µl (Fixed)

g) Sensor:

N.A.

h) Resolution:

i) End User:

Lab

j) Accuracy:

N.A. N.S.

k) Calibration done at:

On Site / √ In House

1.3 Date of receipt of item:

16-03-24

1.4 Physical Condition of DUC:

OK

1.5 Date of calibration:

19-03-24

1.6 Recommended date of next calibration:

19-03-25

1.7 Date of Issue:

21-03-24

Temperature:

20 °C ± 2 °C

Humidity:

30 % RH to 75 % RH

Pressure:

1008 mbar

1.9 Method of Calibration:

SOP / MASS / 02 (As Per ISO: 8655 - 6: 2022)

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.

1.8 Environmental Conditions During Calibration:

i) Weights Cal. Certificate No. NC-210

(NSTAR, Ahmedabad) (Cal. Date: 16/05/22, Due Date: 15/05/25)

ii) Digital Thermometer With Sensor Cal. Certificate No. MTL / TH / DTM / R01 / 09 - 23

(MTL, Barrackpore)

(Cal. Date: 15/09/23, Due Date: 15/09/24)

2.1 Result:

Mechanical Calibration: (Mass & Volume)

SI. 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 1000 µl (Fixed)	1000	996.3774	1000.3629	0.3629	0.37

Remarks: i) Cubical Expansion co - efficient of pipette material taken as 10^{-5} μ l / °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.
- iv) Calibrations are carried out without any adjustment or repair.

Issue No. : 2 Issue Date : 10.11.06

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	

S.Mahanatria S **Calibration Engineer**

Form No - MTL/22/2006

Technical Manager

S Pandey Rev. No.: 04 Rev. Date: 01.04.22

ed by: