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

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CALIBRATION CERTIFICATE NO.:MTL / SDC / R06 / 05 - 21

Form No. - MTL/22/2006

CALIBRATION CERTIFICATE OF MICRO PIPETTE



ULR - CC254521000009553F

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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 &

Identification of item

a) Name: c) Sl. No.: Micro Pipette

b) Code No.:

SDC / LAB / PIPETTE / 04

to be Calibrated:

e) Model / Type:

V58804 Micropette d) Make:

Accupipet

g) Sensor:

f) Range:

1 µl to 100 µl

i) End User:

N.A.

h) Resolution: 1 ul

Pathology

j) Accuracy:

N.S.

k) Calibration done at:

1.8 Environmental Conditions During Calibration:

On Site / √ In House

1.3 Date of receipt of item: 1.5 Date of calibration:

10-05-21

1.4 Physical Condition of DUC: 1.6 Recommended date of next calibration:

OK

1.7 Date of Issue:

11-05-21 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.

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

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

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	1	0.9921	0.9961	-0.0039	0.039
2.	1 µl to 100 µl	50	49.7847	49.9838	-0.0162	0.39
3.		100	99.5826	99.9809	-0.0191	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

Testing Engin Kerlkata

Quality & Tee

Checked

