



MEASURE TECHNO LAB

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



Phone : 033 - 2215 - 0032, 2215 - 9687, 8100875519, Mobile: 9831190974,
LAB:- 8100143376, E-mail: measuretechno@yahoo.co.in

CALIBRATION CERTIFICATE OF MICRO PIPETTE

CC - 2545

CALIBRATION CERTIFICATE NO.: MTL / RPL / R06 / 07 - 24

ULR - CC254524000033797F

Page: 1 of 1

1.0 Service Request No.: MTL / 25C / 07 / 24 - 25

1.1 Issued to: M/s. Recover Pathology Laboratory,
1360, Survey Park, A-1, Sammilani Park,
East Rajapur, Kolkata - 700075.

1.2 Description & Identification of item to be Calibrated:	a) Name:	Micro Pipette	b) Code No.:	RPL / MP - 01
	c) Sl. No.:	YE231BD0021383	d) Make:	Dragon Lab
	e) Model / Type:	N.S.	f) Range:	10 µl to 100 µl
	g) Sensor:	N.A.	h) Resolution:	1 µl
	i) End User:	Lab	j) Accuracy:	N.S.
	k) Calibration done at:	On Site / √ In House		

1.3 Date of receipt of item : 24-07-24

1.4 Physical Condition of DUC : OK

1.5 Date of calibration : 25-07-24

1.6 Recommended date of next calibration : 25-07-25

1.7 Date of Issue : 26-07-24

1.8 Environmental Conditions During Calibration:

Temperature:	20 °C ± 2 °C
Humidity:	30 % RH to 75 % RH
Pressure:	998.9 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.

- 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)

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	10	10.0135	10.0536	0.0536	0.35
2.	10 µl to 100 µl	50	49.9250	50.1247	0.1247	0.36
3.		100	99.7960	100.1952	0.1952	0.36

- Remarks: i) Cubical Expansion co-efficient of pipette material taken as $10^{-5} \mu\text{l} / ^\circ\text{K}$.
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.

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

Calibrated by:
Calibration Engineer
Measure Techno Lab
K. Barat
Kolkata
Calibration Engineer

Checked/Approved by:
Quality / Technical Manager
S Pandey



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CC - 2545

Page: 1 of 1

CALIBRATION CERTIFICATE OF MICRO PIPETTE

CALIBRATION CERTIFICATE NO.: MTL / RPL / R07 / 07 - 24

ULR - CC254524000033798F

1.0 Service Request No.: MTL / 25C / 07 / 24 - 25

1.1 Issued to: M/s. Recover Pathology Laboratory,
1360, Survey Park, A-1, Sammilani Park,
East Rajapur, Kolkata - 700075.

1.2 Description & Identification of item to be Calibrated:	a) Name:	Micro Pipette	b) Code No.:	RPL / MP - 02
	c) Sl. No.:	YE239BG0022567	d) Make:	Dragon Lab
	e) Model / Type:	N.S.	f) Range:	100 µl to 1000 µl
	g) Sensor:	N.A.	h) Resolution:	5 µl
	i) End User:	Lab	j) Accuracy:	N.S.
	k) Calibration done at:	On Site / √ In House		

1.3 Date of receipt of item : 24-07-24

1.5 Date of calibration : 25-07-24

1.7 Date of Issue : 26-07-24

1.4 Physical Condition of DUC : OK

1.6 Recommended date of next calibration : 25-07-25

1.8 Environmental Conditions During Calibration:

Temperature:	20 °C ± 2 °C
Humidity:	30 % RH to 75 % RH
Pressure:	998.9 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.

- 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)

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	100	96.3433	96.7287	-3.2713	0.35
2.	100 µl to 1000 µl	500	492.7501	494.7211	-5.2789	0.36
3.	µl	1000	989.0334	992.9895	-7.0105	0.37

- Remarks: i) Cubical Expansion co-efficient of pipette material taken as $10^{-5} \mu\text{l} / ^\circ\text{k}$.
- 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.

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

Calibrated by:

Calibration Engineer
K. Barat
Measure Techno Lab
Calibration Engineer
Kolkata

Checked / Approved by:

Quality / Technical Manager
S. Pandey



MEASURE TECHNO LAB

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



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Page: 1 of 1

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CALIBRATION CERTIFICATE OF MICRO PIPETTE

CALIBRATION CERTIFICATE NO.: MTL / RPL / R08 / 07 - 24

ULR - CC254524000033799F

1.0 Service Request No.: MTL / 25C / 07 / 24 - 25

1.1 Issued to:

M/s. Recover Pathology Laboratory,
1360, Survey Park, A-1, Sammilani Park,
East Rajapur, Kolkata - 700075.

1.2 Description & Identification of item to be Calibrated:

a) Name:	Micro Pipette	b) Code No.:	RPL / MP - 03
c) Sl. No.:	YE231BD0016456	d) Make:	Dragon Lab
e) Model / Type:	N.S.	f) Range:	500 µl (Fixed)
g) Sensor:	N.A.	h) Resolution:	N.A.
i) End User:	Lab	j) Accuracy:	N.S.
k) Calibration done at:	On Site / √ In House		

1.3 Date of receipt of item :

24-07-24

1.4 Physical Condition of DUC : OK

1.5 Date of calibration :

25-07-24

1.6 Recommended date of next calibration : 25-07-25

1.7 Date of Issue :

26-07-24

1.8 Environmental Conditions During Calibration:

Temperature: 20 °C ± 2 °C
 Humidity: 30 % RH to 75 % RH
 Pressure: 998.9 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.

- 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)

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 500 µl (Fixed)	500	496.2056	498.1904	-1.8096	0.35

- Remarks: i) Cubical Expansion co - efficient of pipette material taken as $10^{-5} \mu\text{l} / ^\circ\text{k}$.
 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.

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

Calibration Engineer
 Measure Techno Lab
 K. Barakata
 Calibration Engineer



Checked by:
 Approved by:
 Quality / Technical Manager
 S. Pandey

Rev. No. : 04 Rev. Date : 01.04.22



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CALIBRATION CERTIFICATE OF MICRO PIPETTE

CALIBRATION CERTIFICATE NO.: MTL / RPL / R09 / 07 - 24

ULR - CC254524000033800F

Page: 1 of 1

1.0 Service Request No.: MTL / 25C / 07 / 24 - 25

1.1 Issued to: M/s. Recover Pathology Laboratory,
1360, Survey Park, A-1, Sammilani Park,
East Rajapur, Kolkata - 700075.

1.2 Description & Identification of item to be Calibrated:

a) Name: Micro Pipette
b) Code No.: RPL / MP - 04
c) Sl. No.: YE231BD0004352
d) Make: Dragon Lab
e) Model / Type: N.S.
f) Range: 5 µl to 50 µl
g) Sensor: N.A.
h) Resolution: 0.5 µl
i) End User: Lab
j) Accuracy: N.S.
k) Calibration done at: On Site / √ In House

1.3 Date of receipt of item : 24-07-24

1.5 Date of calibration : 25-07-24

1.7 Date of Issue : 26-07-24

1.4 Physical Condition of DUC : OK

1.6 Recommended date of next calibration : 25-07-25

1.8 Environmental Conditions During Calibration:
Temperature: 20 °C ± 2 °C
Humidity: 30 % RH to 75 % RH
Pressure: 998.9 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.

- 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)

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	4.9443	4.9641	-0.0359	0.032
2.	5 µl to 50 µl	25	25.0747	25.1750	0.1750	0.36
3.		50	50.1133	50.3138	0.3138	0.37

- Remarks: i) Cubical Expansion co - efficient of pipette material taken as $10^{-5} \mu\text{l} / ^\circ\text{k}$.
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.

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

Calibrated by:
Calibration Engineer
Measure Techno Lab
Kolkata

Checked / Approved by:
Quality / Technical Manager
S Pandey

Form No. - MTL/22/2006

Issue No. : 2 Issue Date : 10.11.06

Rev. No. : 04 Rev. Date : 01.04.22



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CC - 2545

CALIBRATION CERTIFICATE OF MICRO PIPETTE

Page: 1 of 1

CALIBRATION CERTIFICATE NO.: MTL / RPL / R10 / 07 - 24

ULR - CC254524000033801F

1.0 Service Request No.: MTL / 25C / 07 / 24 - 25

1.1 Issued to: M/s. Recover Pathology Laboratory,
1360, Survey Park, A-1, Sammilani Park,
East Rajapur, Kolkata - 700075.

1.2 Description & Identification of item to be Calibrated:	a) Name:	Micro Pipette	b) Code No.:	RPL / MP - 05
	c) Sl. No.:	YE231BD0017847	d) Make:	Dragon Lab
	e) Model / Type:	N.S.	f) Range:	20 µl to 200 µl
	g) Sensor:	N.A.	h) Resolution:	1 µl
	i) End User:	Lab	j) Accuracy:	N.S.
	k) Calibration done at:	On Site / <input checked="" type="checkbox"/> In House		

1.3 Date of receipt of item : 24-07-24

1.4 Physical Condition of DUC : OK

1.5 Date of calibration : 25-07-24

1.6 Recommended date of next calibration : 25-07-25

1.7 Date of Issue : 26-07-24

1.8 Environmental Conditions During Calibration:

Temperature: 20 °C ± 2 °C
 Humidity: 30 % RH to 75 % RH
 Pressure: 998.9 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.

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- 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)

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	20	19.4442	19.5220	-0.4780	0.32
2.	20 µl to 200 µl	100	98.7427	99.1377	-0.8623	0.32
3.		200	200.4827	201.2846	1.2846	0.35

- Remarks: i) Cubical Expansion co-efficient of pipette material taken as $10^{-5} \mu\text{l} / ^\circ\text{K}$.
 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.

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

Calibrated by:
 Calibration Engineer
 Measure Techno Lab
 Calibration Engineer

K. Barak

Checked/Approved by:

 Quality / Technical Manager

S. Pandey