

PRIMA DIAGNOSTICS

LIST OF EQUIPMENT

S No.	Name of equipment	Serial Number	Date of installation	Model No.	Manufacturer Name	Last date of calibration	Due date of calibration	Present working status
1.	Micropipette (1-10 µL)	PD/WF/LGI/MP/02 PW15009	19.02.18	Thermo Scientific Finnpipette F3	Thermo Scientific	09.07.21	08.01.22	In Use
2.	Micropipette (10-100 µL)	PD/LG/MP/01 OW12061	19.02.18	Thermo Scientific Finnpipette F3	Thermo Scientific	09.07.21	08.01.22	In Use
3.	Micropipette (100-1000 µL)	PD-WF/LGI/MP/03 OW14216	19.02.18	Thermo Scientific Finnpipette F3	Thermo Scientific	09.07.21	08.01.22	In Use

## CALIBRATION CERTIFICATE

Page 1 of 1

1. Customer Name:	M/s.Prima Diagnostics Gururaj Govind Life Sciences, Whitefield LLP, Varthur Whitefield Main Road, Siddapura Village, Bangalore-560066	6. Certificate No:	RCPL/21-22/ML/I3106-02
		7. ULR No:	CC221521000005802F
		8. Date of Issue:	12-07-2021
2. SRF No:	I3106	9. Date of Calibration:	09-07-2021
3. Date of SRF/Receipt:	09-07-2021	10. Next Cal Due:	08-01-2022
4. Discipline:	Mechanical Calibration	11. Calibration SOP no:	RCPL/SOP/ML-21
5. Calibrated At:	Mass & Volume Lab	12. Condition of DUC on Receipt:	Good

13. ENVIRONMENTAL CONDITION : Temperature: 20.36°C , Humidity: 55.14%RH  
Ambient Pressure: 911.8hpa, Water Temperature: 19.8°C

### 14. DUC DETAILS:

Nomenclature :	Micro Pipette	Serial. No:	PW15009
Make & Model :	ThermoScientific & Finnpiquette F3	Code/ID No :	PD/WF/LGI/MP/02
Range :	1-10 µl	Resolution:	0.02 µl

### 15. STANDARD INSTRUMENT USED:

Nomenclature:	Electronic Semi Micro Balance	Serial. No:	33604236
Make/Model :	Sartorius / CPA225D	Cal Due Date:	16-09-2021
Range :	0 to 220g	Traceable to:	True Value Calibration Services Pvt. Ltd., Chennai
Certificate No:	TVC SPL 20/09/818-02		

### 16. CALIBRATION RESULTS:

Parameter: Volume

Sl. No.	DUC Value	Standard value	Systematic Error	Permissible Systematic Error ±	Random Error	Permissible Random Error ±	Measurement Uncertainty±
	µl	µl	µl	µl	µl	µl	µl
1	10.00	9.98	0.02	0.10	0.06	0.08	0.17

### 17. REMARKS & CONCLUSION:

- Reported Values of DUC are Average of 10 Measuring Series.
- The Measurement Uncertainty is estimated at a confidence level of 95.45 % with a coverage factor k=2.0.
- Calibration certificate issued for Pipette is used for scientific or industrial purpose only.
- Calibration of pipette is done as per ISO8655-6 & Permissible Systematic & Random error are given as per ISO 8655-2
- Coefficient of cubic thermal expansion ( $^{\circ}\text{C}^{-1} \times 10^{-6}$ ) of Borosilicate Glass 5.0 is  $15 \times 10^{-6}$ .
- The measurement data reported is "As found" - Without any Adjustment.
- This Certificate refer only to particular item submitted for Calibration.
- Volume at the reference temperature of 27°C, V<sub>27</sub> from the apparent mass of water.
- The Std. used for calibration are calibrated and Traceable to National/International Standards.

Calibrated By

NETRAVATING  
CALIBRATION ENGINEER



Authorized Signatory

NAGAPPA KANNUR  
DY. TECHNICAL MANAGER

FM-GL-67

## CALIBRATION CERTIFICATE

1. Customer Name:	M/s.Prima Diagnostics Gururaj Govind Life Sciences, Whitefield LLP, Varthur Whitefield Main Road, Siddapura Village, Bangalore-560066	6. Certificate No:	RCPL/21-22/ML/13106-01
		7.ULR No:	CC221521000005801F
		8.Date of Issue:	12-07-2021
2. SRF No:	I3106	9.Date of Calibration:	09-07-2021
3. Date of SRF/Receipt:	09-07-2021	10. Next Cal Due:	08-01-2022
4. Discipline:	Mechanical Calibration	11. Calibration SOP no:	RCPL/SOP/ML-21
5. Calibrated At:	Mass & Volume Lab	12. Condition of DUC on Receipt:	Good

13. ENVIRONMENTAL CONDITION : Temperature: 20.14°C , Humidity: 56.36% RH  
Ambient Pressure: 912.6hpa, Water Temperature: 19.8°C

### 14. DUC DETAILS:

Nomenclature :	Micro Pipette	Serial. No:	PD/LG/MP/01
Make & Model :	ThermoScientific & Finnpiptette F3	Code/ID No :	OW12061
Range :	10 to 100 µl	Resolution:	0.2 µl

### 15. STANDARD INSTRUMENT USED:

Nomenclature:	Electronic Semi Micro Balance	Serial. No:	33604236
Make / Model :	Sartorius / CPA225D	Cal Due Date:	16-09-2021
Range :	0 to 220g	Traceable to:	True Value Calibration Services Pvt. Ltd., Chennai
Certificate No:	TVC SPL 20/09/818-02		

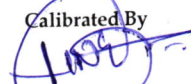
### 16. CALIBRATION RESULTS:

Parameter: Volume


Sl. No.	DUC Value	Standard value	Systematic Error	Permissible Systematic Error ±	Random Error	Permissible Random Error ±	Measurement Uncertainty±
	µl	µl	µl	µl	µl	µl	µl
1	10.0	10.09	-0.09	0.10	0.03	0.08	0.21
2	50.0	49.97	0.03	0.50	0.06	0.20	0.21
3	100.0	99.90	0.10	0.80	0.09	0.30	0.21

### 17. REMARKS & CONCLUSION:

- Reported Values of DUC are Average of 10 Measuring Series.
- The Measurement Uncertainty is estimated at a confidence level of 95.45 % with a coverage factor k=2.0.
- Calibration certificate issued for Pipette is used for scientific or industrial purpose only.
- Calibration of pipette is done as per ISO8655-6 & Permissible Systematic & Random error are given as per ISO 8655-2
- Coefficient of cubic thermal expansion (°C-1 × 10<sup>-6</sup>) of Borosilicate Glass 5.0 is 15 × 10<sup>-6</sup>.
- The measurement data reported is "As found" - Without any Adjustment.
- This Certificate refer only to particular item submitted for Calibration.
- Volume at the reference temperature of 27°C, V27 from the apparent mass of water.
- The Std.used for calibration are calibrated and Traceable to National/International Standards.

Calibrated By  
  
NETRAVATHI G  
CALIBRATION ENGINEER



Authorized Signatory  
  
NAGAPPA KANNUR  
DY TECHNICAL MANAGER  
FM-GL-67

## CALIBRATION CERTIFICATE

1. Customer Name:	M/s.Prima Diagnostics Gururaj Govind Life Sciences, Whitefield LLP, Varthur Whitefield Main Road, Siddapura Village, Bangalore-560066	6. Certificate No:	RCPL/21-22/ML/I3106-03
		7.ULR No:	CC221521000005803F
		8.Date of Issue:	12-07-2021
2. SRF No:	I3106	9.Date of Calibration:	09-07-2021
3. Date of SRF/Receipt:	09-07-2021	10. Next Cal Due:	08-01-2022
4. Discipline:	Mechanical Calibration	11. Calibration SOP no:	RCPL/SOP/ML-21
5. Calibrated At:	Mass & Volume Lab	12. Condition of DUC on Receipt:	Good

13. ENVIRONMENTAL CONDITION : Temperature: 20.47°C , Humidity: 53.36% RH  
Ambient Pressure: 910.8hpa, Water Temperature: 19.8°C

### 14. DUC DETAILS:

Nomenclature :	Micropipette	Serial. No:	OW14216
Make & Model:	ThermoScientific & Finnpiette F3	Code/ID No :	PD-WF/LGI/MP/03
Range :	100-1000 µl	Resolution:	1 µl

### 15. STANDARD INSTRUMENT USED:

Nomenclature:	Electronic Semi Micro Balance	Serial. No:	33604236
Make/Model :	Sartorius / CPA225D	Cal Due Date:	16-09-2021
Range :	0 to 220g	Traceable to:	True Value Calibration Services Pvt. Ltd., Chennai
Certificate No:	TVCSPSL 20/09/818-02		

### 16. CALIBRATION RESULTS:

Parameter: Volume

Sl. No.	DUC Value	Standard value	Systematic Error	Permissible Systematic Error ±	Random Error	Permissible Random Error ±	Measurement Uncertainty±
	µl	µl	µl	µl	µl	µl	µl
1	100	100.55	-0.55	0.80	0.09	0.30	0.21
2	500	501.76	-1.76	4.00	0.12	1.50	0.61
3	1000	1004.40	-4.40	8.00	0.18	3.00	0.61

### 17. REMARKS & CONCLUSION:

- Reported Values of DUC are Average of 10 Measuring Series.
- The Measurement Uncertainty is estimated at a confidence level of 95.45 % with a coverage factor k=2.0.
- Calibration certificate issued for Pipette is used for scientific or industrial purpose only.
- Calibration of pipette is done as per ISO8655-6 & Permissible Systematic & Random error are given as per ISO 8655-2
- Coefficient of cubic thermal expansion (°C<sup>-1</sup> × 10<sup>-6</sup>) of Borosilicate Glass 5.0 is 15 × 10<sup>-6</sup>.
- The measurement data reported is "As found" - Without any Adjustment.
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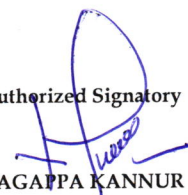
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NETRAVATN G  
CALIBRATION ENGINEER



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NAGAPPA KANNUR  
DY TECHNICAL MANAGER

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