



# AN LABORATORIES

CALIBRATION & TESTING LABORATORIES

303, B-56, Kapil CHS, Gokuldham, Goregaon (East), Mumbai - 400 063.  
Mob.: 7021536885 / 9969541543 E-mail : sales.anlaboratories@gmail.com

## CALIBRATION CERTIFICATE

Pipette

Certificate No: AN /22050028

Service Requested by:	Asavlee Dr. Aparna's Pathology Laboratory	Request Date: 31.05.2022
		Received on : 31.05.2022
		Request details: Verbal
		Physical condition: Good

### Instrument Details

Instrument Name:	Pipette	Calibration Date: 01.06.2022
Manufacturer:	Perfect	Next Cal. Due : 30.09.2022
Model :	--	
Serial No.:	--	ID No : --

### Ambient Conditions

Temperature	25.0 ± 2 °C	Relative Humidity	63.5 %RH ± 5 %RH
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### Calibration Specifications

Parameters	Range	Least Count
Volume	10 - 100 µl	1 µl

### Reference Standards Used

Equipment	Serial No.	ID No.	Certificate No.	Cal. Date	Due Date
Weighing Scale	191144/06	AN-008	AN/INT/2106001	11.06.2021	10.06.2022

Calibration Procedure: Pipette is Calibrated by comparison with Standard Weighing Scale

### Observations:

Trial No.	Settings : 10 µl		Acceptable Criteria : ± 0.3µl		p at 25°C = 0.99704	
	Weight Indicated in gram	Calculated Volume in µl	Difference in µl	Mean Value In µl	Standard Deviation	C.V. in %
1	0.01001	10.04	0.04	10.05	0.08	0.83
2	0.01014	10.17	0.17			
3	0.00996	9.99	-0.01			
4	0.01006	10.09	0.09			
5	0.01005	10.08	0.08			
6	0.01011	10.14	0.14			
7	0.01002	10.05	0.05			
8	0.01001	10.04	0.04			
9	0.00998	10.01	0.01			
10	0.00984	9.87	-0.13			



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## CALIBRATION CERTIFICATE

Pipette

Certificate No: AN /22050028

### Ambient Conditions

Temperature	25.0 ± 2 °C	Relative Humidity	52.5 %RH ± 5 %RH
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### Observations:

Trial No.	Settings : 50 µl		Acceptable Criteria : ± 0.5 µl		ρ at 25°C = 0.99704	
	Weight Indicated in gram	Calculated Volume in µl	Difference in µl	Mean Value In µl	Standard Deviation	C.V. in %
1	0.04993	50.08	0.08	50.04	0.04	0.08
2	0.04988	50.03	0.03			
3	0.04991	50.06	0.06			
4	0.04995	50.10	0.10			
5	0.04988	50.03	0.03			
6	0.04983	49.98	-0.02			
7	0.04991	50.06	0.06			
8	0.04986	50.01	0.01			
9	0.04984	49.99	-0.01			
10	0.04989	50.04	0.04			

Trial No.	Settings : 100 µl		Acceptable Criteria : ± 0.8 µl		ρ at 25°C = 0.99704	
	Weight Indicated in gram	Calculated Volume in µl	Difference in µl	Mean Value In µl	Standard Deviation	C.V. in %
1	0.09997	100.27	0.27	100.19	0.05	0.05
2	0.09989	100.19	0.19			
3	0.09984	100.14	0.14			
4	0.09992	100.22	0.22			
5	0.09983	100.13	0.13			
6	0.09984	100.14	0.14			
7	0.09987	100.17	0.17			
8	0.09989	100.19	0.19			
9	0.09993	100.23	0.23			
10	0.09993	100.23	0.23			

### Note:

UUC: Unit under calibration

Uncertainty has been calculated for a coverage factor k=2 corresponding to approximately 95.5% Confidence Level.

The Standard maintained are traceable to National/ International Standard through accredited Laboratories.

The observations reported represent values at the time of the measurements and under the stated condition.

They do not convey any long term stability information.

Calibrated By:

Name: Mandar Aple

Reviewed By:

Name: Jayashree Bhole

END OF REPORT

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## CALIBRATION CERTIFICATE

Pipette

Certificate No: AN /22050029

Service Requested by:	Asavlee Dr. Aparna's Pathology Laboratory	Request Date: 31.05.2022 Received on : 31.05.2022 Request details: Verbal Physical condition: Good
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### Instrument Details

Instrument Name:	Pipette	Calibration Date: 01.06.2022
Manufacturer:	Rongtal	Next Cal. Due : 30.09.2022
Model :	--	
Serial No.:	RS63654	ID No : --

### Ambient Conditions

Temperature	25.0 ± 2 °C	Relative Humidity	63.5 %RH ± 5 %RH
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### Calibration Specifications

Parameters	Range	Least Count
Volume	5 - 50 µl	0.5 µl

### Reference Standards Used

Equipment	Serial No.	ID No.	Certificate No.	Cal. Date	Due Date
Weighing Scale	191144/06	AN-008	AN/INT/2106001	11.06.2021	10.06.2022

**Calibration Procedure:** Pipette is Calibrated by comparison with Standard Weighing Scale

### Observations:

Trial No.	Settings : 5 µl		Acceptable Criteria : ± 0.5µl		ρ at 25°C = 0.99704	
	Weight Indicated in gram	Calculated Volume in µl	Difference in µl	Mean Value In µl	Standard Deviation	C.V. in %
1	0.00492	4.93	-0.07	5.00	0.07	1.31
2	0.00503	5.04	0.04			
3	0.00491	4.92	-0.08			
4	0.00496	4.97	-0.03			
5	0.00507	5.09	0.09			
6	0.00498	4.99	-0.01			
7	0.00501	5.02	0.02			
8	0.00499	5.00	0.00			
9	0.00508	5.10	0.10			
10	0.00489	4.90	-0.10			



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## CALIBRATION CERTIFICATE

Pipette

Certificate No: AN /22050029

### Ambient Conditions

Temperature	25.0 ± 2 °C	Relative Humidity	52.5 %RH ± 5 %RH
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### Observations:

Trial No.	Settings : 25 µl		Acceptable Criteria : ± 1.0 µl		ρ at 25°C = 0.99704	
	Weight Indicated in gram	Calculated Volume in µl	Difference in µl	Mean Value In µl	Standard Deviation	C.V. in %
1	0.02477	24.84	-0.16	24.97	0.09	0.34
2	0.02491	24.98	-0.02			
3	0.02487	24.94	-0.06			
4	0.02488	24.95	-0.05			
5	0.02504	25.11	0.11			
6	0.02491	24.98	-0.02			
7	0.02502	25.09	0.09			
8	0.02489	24.96	-0.04			
9	0.02486	24.93	-0.07			
10	0.02479	24.86	-0.14			

Trial No.	Settings : 50 µl		Acceptable Criteria : ± 1.5 µl		ρ at 25°C = 0.99704	
	Weight Indicated in gram	Calculated Volume in µl	Difference in µl	Mean Value In µl	Standard Deviation	C.V. in %
1	0.04994	50.09	0.09	50.02	0.07	0.14
2	0.04975	49.90	-0.10			
3	0.04991	50.06	0.06			
4	0.04984	49.99	-0.01			
5	0.04992	50.07	0.07			
6	0.04985	50.00	0.00			
7	0.04978	49.93	-0.07			
8	0.04988	50.02	0.02			
9	0.04993	50.08	0.08			
10	0.04994	50.09	0.09			

**Note:**  
 UUC: Unit under calibration  
 Uncertainty has been calculated for a coverage factor k=2 corresponding to approximately 95.5% Confidence Level.  
 The Standard maintained are traceable to National/ International Standard through accredited Laboratories.  
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 They do not convey any long term stability information.

Calibrated By: *Mb* 01-Jun-2022  
 Name: *Mandar Apke*

Reviewed By: *Bhali* 01/06/2022  
 Name: *Jayeshree Bhali*

END OF REPORT

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