

(A Division of : Sharp Industrial Machinery Maintenance Co. Pvt. Ltd.)

10-3-74/27 Plot No.151, Street No.3, Teacher's Colony, East Marredpally, Secunderabad - 26 Telangana Tel 040 2773 2341.2773 2342, 2773 1510. Telefax: 040-2773 2330, Mob: 77299 91231, 99488 96802 98480 46524 E-mail simco.hyd@gmail.com, www.smcocalibrationlaboratory.com



CC-2806

CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 2017

F10-CC-03

Page: 1 of 1

Certificate No. : SL2106MVL0195-001	Issue Date : 16-07-2021
1. Customer Name & Address:	ULR - C C 2 8 0 6 2 1 2 0 0 0 0 1 0 1 3 F
M/s. PACE HOSPITAL Plot No. 23, HUDA Techno Enclave,	Reference Date : 14-07-2021
Patrika Nagar, Madhapur,	Calibration Date : 15-07-2021
Hyderabad, Telangana- 500081.	Calibration Due Date : 14-07-2022

2. Details of Unit Under Calibration:

Description	Micro Pipette		
Make	ERBA	Identification No.	PHM/BME/LAB/PIE/01
Range	100-1000 µl	Location	4TH FLOOR
Serial No.	NB442670	Department	Lab

3. Details of Standard Instruments Used:

Instrument Name	Serial / Identification No.	Valid up to	Certificate No.
Semi Micro Balance	SL/PMM/SMB/01	30-05-2022	SL2105MVS0165-002

4. Environmental Conditions: Standard Temperature: (23±2)°C

Relative Humidity: (50±10) % RH

Air Pressure: (900-1100)hpa

5. Calibration Procedure: SOP-MP-01

6. Mechanical Calibration: Volume

7. Calibration Results:

		Systematic	matic Random Maximum		sible Error (±µl)	Expanded
Reading (µI)	Value (µl)	Error (µl)	Error (µl)	Systematic	Random	Uncertainty (±µl)
100	100.47	0.47	0.1	8.0	3.0	0.13
		0.62	0.1	8.0	3.0	0.13
		A CONTRACTOR OF THE CONTRACTOR	0.1	8.0	3.0	0.13
	Instrument Reading (µI) 100 500	Instrument Reading (μl) Measured Value (μl) 100 100.47 500 500.62	Instrument Measured Systematic Error (μl)	Instrument Reading (μl) Measured Systematic Error (μl) Error (μl)	Instrument Reading (μl)Measured Value (μl)Systematic Error (μl)Random Error (μl)Maximum Permis Systematic100100.470.470.18.0500500.620.620.18.0	Reading (μl) Value (μl) Error (μl) Error (μl) Systematic Random 100 100.47 0.47 0.1 8.0 3.0 500 500.62 0.62 0.1 8.0 3.0 3.0 3.0 3.0 3.0 3.0

8. Remarks:

- The instrument was received in good condition and was calibrated at Lab. a
- This certificate pertains only to the item calibrated. b
- The calibration results reported in this certificate are valid at the time of and at the stated environmental conditions. C
- The calibration interval is determined based on customer's requirements. d
- The calibration is traceable to National standards as per traceability details given in the certificate.
- This calibration certificate shall not be reproduced in full, except with prior written approval of Managing Director, SIMCO Calibration Laboratory.
- This calibration certificate is meant for scientific and industrial purpose only. g
- The NABL Symbol is used as per NABL guidelines in NABL-133.
- The Expanded Uncertainty is reported approximately at 95% confidence level with coverage factor k = 2
- Random Error are taken as round up value.
- To use this instrument at other temperatures use the formula given below

V27 = VT (1- y (t-27)).

where, VT = Volume measured at temperature t°C (ml), V27= Volume measured at 27°C (ml) γ = coefficient of cubical expansion of Pipette tips (0.00024 /°C)

Calibrated by



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CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 2017

F10-CC-03

16-07-2021 **Issue Date** . Certificate No.: SL2106MVL0195-002 ULR - CC280621200001014F 1. Customer Name & Address: M/s. PACE HOSPITAL 14-07-2021 Reference Date Plot No. 23, HUDA Techno Enclave, 15-07-2021 Calibration Date Patrika Nagar, Madhapur, Calibration Due Date : 14-07-2022 Hyderabad, Telangana- 500081.

2. Details of Unit Under Calibration:

Description		Micro Pipette		1000	
		ERBA	Identification No.	:	PHM/BME/LAB/PIE/02
Make	•		Location		4TH FLOOR
Range	:	5-50 µl			
Serial No.		NB450579	Department		Lab

3. Details of Standard Instruments Used:

ails of Standard Instrume	ents Usea:		O- Hifianto No	
Instrument Name	Serial / Identification No.	Valid up to	Certificate No.	
Ultra Micro Balance	SL/PMM/UMB/01	30-05-2022	SL2105MVS0165-001	
Ollia Micro Balarice			:dib (E0+10) % BH	

Relative Humidity: (50±10) % RH 4. Environmental Conditions: Standard Temperature: (23±2)°C

Air Pressure: (900-1100)hpa

SOP-MP-01 5. Calibration Procedure:

6. Mechanical Calibration: Volume

	bration Result	s: Measured	Systematic	Random	Maximum Permis	sible Error (±µl)	Expanded
Serial	Instrument Reading (µI)	Value (µl)	Error (µl)	Error (µl)	Systematic	Random	Uncertainty (±µl)
No.		4.9985	-0.0015	0.1	0.5	0.2	0.06
1	5	4.9900			0.5	0.2	0.07
2	25	24.9864	-0.0136	0.1	0.5		
3	50	49.9813	-0.0187	0.1	0.5	0.2	0.07

8. Remarks:

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- The calibration interval is determined based on customer's requirements. d
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- This calibration certificate is meant for scientific and industrial purpose only.
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- The Expanded Uncertainty is reported approximately at 95% confidence level with coverage factor k = 2
- Random Error are taken as round up value.
- To use this instrument at other temperatures use the formula given below

V27 = VT (1-y (t-27)).

where, VT = Volume measured at temperature t°C (ml), V27= Volume measured at 27°C (ml) γ = coefficient of cubical expansion of Pipette tips (0.00024 /°C)

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F10-CC-03

Page: 1 of 1 16-07-2021

F10-CC-03	Issue Date : 16-07-2021
Certificate No. : SL2106MVL0195-003 1. Customer Name & Address:	ULR - CC 2 8 0 6 2 1 2 0 0 0 0 1 0 1 5 F
M/s. PACE HOSPITAL Plot No. 23, HUDA Techno Enclave, Patrika Nagar, Madhapur, Hyderabad, Telangana- 500081.	Reference Date : 14-07-2021 Calibration Date : 15-07-2021 Calibration Due Date : 14-07-2022

2. Details of Unit Under Calibration:

Description		Micro Pipette		11110		
The state of the s		SARTORIUS	Identification No.		PHM/BME/LAB/PIE/03	
Make			Location		4TH FLOOR	
Range	:	100-1000 µl		-		
Serial No.		17582892	Department		Lab	

3. Details of Standard Instruments Used:

Valid up to	Certificate No.
30-05-2022	SL2105MVS0165-002

Relative Humidity: (50±10) % RH 4. Environmental Conditions: Standard Temperature: (23±2)°C

Air Pressure: (900-1100)hpa

SOP-MP-01 5. Calibration Procedure:

6. Mechanical Calibration: Volume

7. Calibration Results:

	bration Result	s: Measured	Systematic	Random	Maximum Permis	sible Error (±µl)	Expanded
Serial No.	Reading (µl)	Value (µl)	Error (µl)	Error (µl)	Systematic	Random	Uncertainty (±µl)
NO.		99.56	-0.44	0.1	8.0	3.0	0.13
1	100		-0.73	0.1	8.0	3.0	0.13
2	500	499.27		7.49	8.0	3.0	0.13
3	1000	998.61	-1.39	0.1	6.0	0.0	

8. Remarks:

- The instrument was received in good condition and was calibrated at Lab. a
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- Random Error are taken as round up value.
- To use this instrument at other temperatures use the formula given below

V27 = VT (1- y (t-27)).

where, VT = Volume measured at temperature t°C (ml), V27= Volume measured at 27°C (ml) γ = coefficient of cubical expansion of Pipette tips (0.00024 /°C)

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CALIBRATION CERTIFICATE

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F10-CC-03

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F10-CC-03	Issue Date : 16-07-2021
Certificate No. : SL2106MVL0195-004	
1. Customer Name & Address:	ULR - C C 2 8 0 6 2 1 2 0 0 0 0 1 0 1 6 F
M/s. PACE HOSPITAL	Reference Date : 14-07-2021
Plot No. 23, HUDA Techno Enclave,	Calibration Date : 15-07-2021
Patrika Nagar, Madhapur, Hyderabad, Telangana- 500081.	Calibration Due Date : 14-07-2022

2. Details of Unit Under Calibration:

Description		Micro Pipette		
		SARTORIUS	Identification No.	PHM/BME/LAB/PIE/04
Make	1.5	SARTORIOS	TORIOS	4TH FLOOR
Range		5-50 µl	Location	41111 EOOK
			Department	Lab
Serial No.		16563708	Department	

3. Details of Standard Instruments Used:

s of Standard Instrume	La : 1/11-tification No	Valid up to	Certificate No.	
Instrument Name	Serial / Identification No.	valid up to		
Jltra Micro Balance	SL/PMM/UMB/01	30-05-2022	SL2105MVS0165-001	

Relative Humidity: (50±10) % RH 4. Environmental Conditions: Standard Temperature: (23±2)°C

Air Pressure: (900-1100)hpa

5. Calibration Procedure:

SOP-MP-01

6. Mechanical Calibration: Volume

7. Calibration Results:

	bration Result	s: Measured	Systematic	Random	Maximum Permis	sible Error (±µl)	Expanded
Serial	Instrument Reading (µI)	Value (µl)	Error (µl)	Error (µl)	Systematic	Random	Uncertainty (±µl)
No.	Treading (p.)		0.0039	0.1	0.5	0.2	0.06
1	5	5.0039			0.5	0.2	0.07
2	25	25.0174	0.0174	0.1	0.5		0.07
3	50	50.0196	0.0196	0.1	0.5	0.2	0.07

8. Remarks:

- The instrument was received in good condition and was calibrated at Lab. a
- This certificate pertains only to the item calibrated.
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- The calibration interval is determined based on customer's requirements. d
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- Random Error are taken as round up value.
- To use this instrument at other temperatures use the formula given below

 $V27 = VT (1- \gamma (t-27)).$

where, VT = Volume measured at temperature t°C (ml), V27= Volume measured at 27°C (ml) γ = coefficient of cubical expansion of Pipette tips (0.00024 /°C)

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CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 2017

F10-CC-03

Certificate No. : SL2106MVL0195-005	Issue Date : 16-07-2021
1. Customer Name & Address:	ULR - C C 2 8 0 6 2 1 2 0 0 0 0 1 0 1 7 F
M/s. PACE HOSPITAL Plot No. 23, HUDA Techno Enclave, Patrika Nagar, Madhapur, Hyderabad, Telangana- 500081.	Reference Date : 14-07-2021 Calibration Date : 15-07-2021 Calibration Due Date : 14-07-2022

2. Details of Unit Under Calibration:

Description	Micro Pipette			
	SARTORIUS	Identification No.		PHM/BME/LAB/PIE/05
Make	 SARTORIO			4TH FLOOR
Range	20-200 µl	Location	•	
Serial No.	18050672	Department		Lab

3. Details of Standard Instruments Used:

entification No. Valid up to	Certificate No.
22.25.2020	SL2105MVS0165-002
	Chancason its.

Relative Humidity: (50±10) % RH 4. Environmental Conditions: Standard Temperature: (23±2)°C

Air Pressure: (900-1100)hpa

SOP-MP-01 5. Calibration Procedure:

6. Mechanical Calibration: Volume

A STATE OF THE STA	bration Result	Measured	Systematic	Random	Maximum Permis	sible Error (±µl)	Expanded
Serial No.	Reading (µl)	Value (µl)	Error (µl)	Error (µl)	Systematic	Random	Uncertainty (±µl
INO.	20	19.65	-0.35	0.1	1.6	0.6	0.07
1			-0.16	0.1	1.6	0.6	0.13
2	100	99.84			4.0	0.6	0.13
3	200	199.27	-0.73	0.1	1.6	0.0	0.10

8. Remarks:

- The instrument was received in good condition and was calibrated at Lab. a
- This certificate pertains only to the item calibrated. b
- The calibration results reported in this certificate are valid at the time of and at the stated environmental conditions. C
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- The Expanded Uncertainty is reported approximately at 95% confidence level with coverage factor k = 2
- Random Error are taken as round up value.
- To use this instrument at other temperatures use the formula given below

 $V27 = VT (1- \gamma (t-27)).$

where, VT = Volume measured at temperature t°C (ml), V27= Volume measured at 27°C (ml) γ = coefficient of cubical expansion of Pipette tips (0.00024 /°C)

Calibrated by



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Page: 1 of 1

CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 2017

F10-CC-03

16-07-2021 **Issue Date** . Certificate No.: SL2106MVL0195-006 ULR - CC280621200001018F 1. Customer Name & Address: M/s. PACE HOSPITAL 14-07-2021 Reference Date : Plot No. 23, HUDA Techno Enclave, 15-07-2021 Calibration Date Patrika Nagar, Madhapur, Calibration Due Date 14-07-2022 Hyderabad, Telangana- 500081.

2. Details of Unit Under Calibration:

Description	: Micro Pipette		DUNA/DNAE/LAB/DIE/06
	DRAGON	Identification No.	: PHM/BME/LAB/PIE/06
Make		Location	: 4TH FLOOR
Range	: 100-1000 µl		Loh
Serial No.	YEAA9AD0010922	Department	: Lab

3. Details of Standard Instruments Used:

ils of Standard Instrume Instrument Name	Serial / Identification No.	Valid up to	Certificate No.	
Semi Micro Balance	SL/PMM/SMB/01	30-05-2022	SL2105MVS0165-002	
	Standard Temperature : (23±2)	Deletive Hu	midity : (50±10) % RH	

4. Environmental Conditions: Standard Temperature : (23±2)°C

Air Pressure: (900-1100)hpa

SOP-MP-01 5. Calibration Procedure:

6. Mechanical Calibration: Volume

TOTAL SPICE	bration Result	s: Measured	Systematic	Random	Maximum Permiss	sible Error (±µl)	Expanded
Serial	Instrument Reading (µl)	Value (µl)	Error (µl)	Error (µl)	Systematic	Random	Uncertainty (±µl)
No.			1.25	0.1	8.0	3.0	0.13
1	100	101.25	1.25	0.1		2.0	0.13
2	500	501.83	1.83	0.1	8.0	3.0	
			2.57	0.1	8.0	3.0	0.13
3	1000	1002.57	2.57	0.1	0.0		

8. Remarks:

- The instrument was received in good condition and was calibrated at Lab.
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- To use this instrument at other temperatures use the formula given below

V27 = VT (1- y (t-27)).

where, VT = Volume measured at temperature t°C (ml), V27= Volume measured at 27°C (ml) γ = coefficient of cubical expansion of Pipette tips (0.00024 /°C)

Calibrated by



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CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 2017

F10-CC-03

16-07-2021 **Issue Date** : Certificate No.: SL2106MVL0195-007 ULR - CC280621200001019F 1. Customer Name & Address: M/s. PACE HOSPITAL 14-07-2021 Reference Date Plot No. 23, HUDA Techno Enclave, 15-07-2021 Calibration Date Patrika Nagar, Madhapur, 14-07-2022 Calibration Due Date Hyderabad, Telangana- 500081.

2. Details of Unit Under Calibration:

Description		Micro Pipette			
Make		DRAGON	Identification No.		PHM/BME/LAB/PIE/07
	•		Location		4TH FLOOR
Range		5-50 µl			Lab
Serial No.		YE20BA50075499	Department	10.	Lav

3. Details of Standard Instruments Used:

Is of Standard Instrume	Serial / Identification No.	Valid up to	Certificate No.	
Instrument Name	Serial / Identinodue		SL2105MVS0165-001	
Ultra Micro Balance	SL/PMM/UMB/01	30-05-2022	SL2105WV30103-00	

4. Environmental Conditions: Standard Temperature: (23±2)°C

Relative Humidity: (50±10) % RH

Air Pressure: (900-1100)hpa

5. Calibration Procedure:

SOP-MP-01

6. Mechanical Calibration: Volume

7. Calibration Results:

	bration Result	s: Measured		Random	Maximum Permissible Error (±µl)		Expanded
Serial	Instrument Reading (µI)	Value (µl)	Error (µl)	Error (µl)	Systematic	Random	Uncertainty (±µl)
No.		4.9937	-0.0063	0.1	0.5	0.2	0.06
1	5			0.1	0.5	0.2	0.07
2	25	24.9864	-0.0136	0.1	**	0.2	0.07
3	50	49.9815	-0.0185	0.1	0.5	0.2	0.07

8. Remarks:

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- The Expanded Uncertainty is reported approximately at 95% confidence level with coverage factor k = 2i
- Random Error are taken as round up value.
- To use this instrument at other temperatures use the formula given below

 $V27 = VT (1- \gamma (t-27)).$

where, VT = Volume measured at temperature t°C (ml), V27= Volume measured at 27°C (ml) γ = coefficient of cubical expansion of Pipette tips (0.00024 /°C)

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CALIBRATION CERTIFICATE

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F10-CC-03

Page: 1 of 1

F10-CC-03	Issue Date : 16-07-2021		
Certificate No.: SL2106MVL0195-008			
1. Customer Name & Address:	ULR - C C 2 8 0 6 2 1 2 0 0 0 0 1 0 2 0 F		
M/s. PACE HOSPITAL	Reference Date : 14-07-2021		
Plot No. 23, HUDA Techno Enclave,	Reference Date		
Patrika Nagar, Madhapur,	Calibration Date : 15-07-2021		
Hyderabad, Telangana- 500081.	Calibration Due Date : 14-07-2022		

2. Details of Unit Under Calibration:

Description		Micro Pipette				
		LABONE	Identification No.	:	PHM/BME/LAB/PIE/07	
Make			Location		: 4TH FLOOR	
Range	:	20-200 μΙ	Location			
Department		Lab				

3. Details of Standard Instruments Used:

etails of Standard Instrume	nts Usea:		0 00 t N-	
Instrument Name	Serial / Identification No.	Valid up to	Certificate No.	
Semi Micro Balance	SL/PMM/SMB/01	30-05-2022	SL2105MVS0165-002	
Sellii Micro Balarico			(a) a(DII	

4. Environmental Conditions: Standard Temperature: (23±2)°C

Relative Humidity: (50±10) % RH

1.6

0.6

Air Pressure: (900-1100)hpa

SOP-MP-01 5. Calibration Procedure: 6. Mechanical Calibration: Volume

200

7. Calibration Results:			Systematic Random	Maximum Permis	Expanded		
Serial No.	Reading (µl)	Value (µl)	Error (µl)	Error (µl)	Systematic	Random	Uncertainty (±µl)
140.	20	20.13	0.13	0.1	1.6	0.6	0.07
1	100	100.56	0.56	0.1	1.6	0.6	0.13

0.1

8. Remarks:

3

The instrument was received in good condition and was calibrated at Lab. a

0.73

This certificate pertains only to the item calibrated.

200.73

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- Random Error are taken as round up value.
- To use this instrument at other temperatures use the formula given below k

V27 = VT (1- y (t-27)).

where, VT = Volume measured at temperature t°C (ml), V27= Volume measured at 27°C (ml) γ = coefficient of cubical expansion of Pipette tips (0.00024 /°C)

Calibrated by



(A Division of : Sharp Industrial Machinery Maintenance Co. Pvt. Ltd.)

10-3-74/27 Plot No.151, Street No.3, Teacher's Colony, East Marredpally, Secunderabad 26 Telangana Tel 040 2773 2341.2773 2342, 2773 1510, Telefax: 040-2773 2330, Mob: 77299 91231, 99488 96802 98480 46524 E-mail simco.hyd@gmail.com, www.simcocalibrationlaboratory.com



CC-2806

CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 2017

F10-CC-03

Page: 1 of 1

F10-CC-03	Issue Date : 16-07-2021
Certificate No. : SL2106MVL0195-009 1. Customer Name & Address:	ULR - C C 2 8 0 6 2 1 2 0 0 0 0 1 0 2 1 F
M/s. PACE HOSPITAL Plot No. 23, HUDA Techno Enclave, Patrika Nagar, Madhapur, Hyderabad, Telangana- 500081.	Reference Date : 14-07-2021 Calibration Date : 15-07-2021 Calibration Due Date : 14-07-2022

2. Details of Unit Under Calibration:

Description		Micro Pipette		
•		20-200 µl	Identification No.	PHM/BME/LAB/PIE/09
Range			I tion .	4TH FLOOR
Serial No.	:	YNGA016155	Location :	41111 2001
Department		Lab		

3. Details of Standard Instruments Used:

ails of Standard Instrume	nts Oseu.		O- We-to No	
Instrument Name	Serial / Identification No.	Valid up to	Certificate No.	
Semi Micro Balance	SL/PMM/SMB/01	30-05-2022	SL2105MVS0165-002	
Seriii Micro Balarios			(50 40) 0/ DII	

4. Environmental Conditions: Standard Temperature : (23±2)°C

Relative Humidity: (50±10) % RH

Air Pressure: (900-1100)hpa

5. Calibration Procedure:

SOP-MP-01

6. Mechanical Calibration: Volume

7. Calibration Results:

	bration Result	Measured	Systematic	Random	Maximum Permissible Error (±µl)		Expanded
Serial No.	Reading (µl)	Value (µl)	Error (µl)	Error (µl)	Systematic	Random	Uncertainty (±µl)
140.	20	19.63	-0.37	0.1	1.6	0.6	0.07
1		99.85	-0.15	0.1	1.6	0.6	0.13
2	100			0.1	1.6	0.6	0.13
3	200	200.09	0.09	0.1	1.0		

8. Remarks:

- The instrument was received in good condition and was calibrated at Lab.
- This certificate pertains only to the item calibrated. b
- The calibration results reported in this certificate are valid at the time of and at the stated environmental conditions. C
- The calibration interval is determined based on customer's requirements. d
- The calibration is traceable to National standards as per traceability details given in the certificate.
- This calibration certificate shall not be reproduced in full, except with prior written approval of Managing Director, SIMCO Calibration Laboratory.
- This calibration certificate is meant for scientific and industrial purpose only. g
- The NABL Symbol is used as per NABL guidelines in NABL-133.
- The Expanded Uncertainty is reported approximately at 95% confidence level with coverage factor k = 2
- Random Error are taken as round up value.
- To use this instrument at other temperatures use the formula given below

V27 = VT (1- y (t-27)).

where, VT = Volume measured at temperature t°C (ml), V27= Volume measured at 27°C (ml) γ = coefficient of cubical expansion of Pipette tips (0.00024 /°C)

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