

# SIMCO CALIBRATION LABORATORY

(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

**SIMCO**<sup>TM</sup>  
AN ISO 9001 : 2015  
CERTIFIED COMPANY

## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

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F10-CC-03

<b>Certificate No. : SL2106MVL0195-001</b>	<b>Issue Date : 16-07-2021</b>
<b>1. Customer Name &amp; Address:</b> <b>M/s. PACE HOSPITAL</b> Plot No. 23, HUDA Techno Enclave, Patrika Nagar, Madhapur, Hyderabad, Telangana- 500081.	<b>ULR - CC 2 8 0 6 2 1 2 0 0 0 1 0 1 3 F</b>
	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	Identification No. : PHM/BME/LAB/PIE/01
Make : ERBA	Location : 4TH FLOOR
Range : 100-1000 µl	Department : Lab
Serial No. : NB442670	

### 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)<sup>o</sup>C Relative Humidity : (50±10) % RH  
Air Pressure : (900-1100)hpa

**5. Calibration Procedure:** SOP-MP-01

**6. Mechanical Calibration: Volume**

### 7. Calibration Results:

Serial No.	Instrument Reading (µl)	Measured Value (µl)	Systematic Error (µl)	Random Error (µl)	Maximum Permissible Error (±µl)		Expanded Uncertainty (±µl)
					Systematic	Random	
1	100	100.47	0.47	0.1	8.0	3.0	0.13
2	500	500.62	0.62	0.1	8.0	3.0	0.13
3	1000	1001.31	1.31	0.1	8.0	3.0	0.13

### 8. Remarks:

- The instrument was received in good condition and was calibrated at Lab.
- This certificate pertains only to the item calibrated.
- The calibration results reported in this certificate are valid at the time of and at the stated environmental conditions.
- The calibration interval is determined based on customer's requirements.
- 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.
- 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  

$$V_{27} = V_T (1 - \gamma (t - 27))$$
 where,  $V_T$  = Volume measured at temperature  $t^{\circ}\text{C}$  (ml),  $V_{27}$  = Volume measured at  $27^{\circ}\text{C}$  (ml)  
 $\gamma$  = coefficient of cubical expansion of Pipette tips (0.00024  $^{\circ}\text{C}$ )

*Kal*  
Calibrated by

*N.V. Kameswara Rao*  
N.V. Kameswara Rao  
Technical Manager  
Authorised Signatory

# SIMCO CALIBRATION LABORATORY

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<b>Certificate No. : SL2106MVL0195-002</b>	<b>Issue Date : 16-07-2021</b>
<b>1. Customer Name &amp; Address:</b> <b>M/s. PACE HOSPITAL</b> Plot No. 23, HUDA Techno Enclave, Patrika Nagar, Madhapur, Hyderabad, Telangana- 500081.	<b>ULR - CC 2 8 0 6 2 1 2 0 0 0 1 0 1 4 F</b>
	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	Identification No. : PHM/BME/LAB/PIE/02
Make : ERBA	Location : 4TH FLOOR
Range : 5-50 µl	Department : Lab
Serial No. : NB450579	

### 3. Details of Standard Instruments Used:

Instrument Name	Serial / Identification No.	Valid up to	Certificate No.
Ultra Micro Balance	SL/PMM/UMB/01	30-05-2022	SL2105MVS0165-001

**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:

Serial No.	Instrument Reading (µl)	Measured Value (µl)	Systematic Error (µl)	Random Error (µl)	Maximum Permissible Error (±µl)		Expanded Uncertainty (±µl)
					Systematic	Random	
1	5	4.9985	-0.0015	0.1	0.5	0.2	0.06
2	25	24.9864	-0.0136	0.1	0.5	0.2	0.07
3	50	49.9813	-0.0187	0.1	0.5	0.2	0.07

### 8. Remarks:

- The instrument was received in good condition and was calibrated at Lab.
- This certificate pertains only to the item calibrated.
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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

$$V_{27} = V_T (1 - \gamma (t-27)).$$

where,  $V_T$  = Volume measured at temperature  $t^\circ\text{C}$  (ml),  $V_{27}$  = Volume measured at  $27^\circ\text{C}$  (ml)  
 $\gamma$  = coefficient of cubical expansion of Pipette tips (0.00024  $^\circ\text{C}$ )

*Raak*  
Calibrated by

*N.V. Kameswara Rao*  
N.V. Kameswara Rao  
Technical Manager  
Authorised Signatory

# SIMCO CALIBRATION LABORATORY

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## CALIBRATION CERTIFICATE

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F10-CC-03

<b>Certificate No. : SL2106MVL0195-003</b>	<b>Issue Date : 16-07-2021</b>
<b>1. Customer Name &amp; Address:</b> <b>M/s. PACE HOSPITAL</b> Plot No. 23, HUDA Techno Enclave, Patrika Nagar, Madhapur, Hyderabad, Telangana- 500081.	<b>ULR - CC 2 8 0 6 2 1 2 0 0 0 1 0 1 5 F</b>
	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	Identification No. : PHM/BME/LAB/PIE/03
Make : SARTORIUS	Location : 4TH FLOOR
Range : 100-1000 µl	Department : Lab
Serial No. : 17582892	

### 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:

Serial No.	Instrument Reading (µl)	Measured Value (µl)	Systematic Error (µl)	Random Error (µl)	Maximum Permissible Error (±µl)		Expanded Uncertainty (±µl)
					Systematic	Random	
1	100	99.56	-0.44	0.1	8.0	3.0	0.13
2	500	499.27	-0.73	0.1	8.0	3.0	0.13
3	1000	998.61	-1.39	0.1	8.0	3.0	0.13

### 8. Remarks:

- The instrument was received in good condition and was calibrated at Lab.
- This certificate pertains only to the item calibrated.
- The calibration results reported in this certificate are valid at the time of and at the stated environmental conditions.
- The calibration interval is determined based on customer's requirements.
- The calibration is traceable to National standards as per traceability details given in the certificate.
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- 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  

$$V_{27} = V_T (1 - \gamma (t - 27))$$
 where,  $V_T$  = Volume measured at temperature  $t^\circ\text{C}$  (ml),  $V_{27}$  = Volume measured at  $27^\circ\text{C}$  (ml)  
 $\gamma$  = coefficient of cubical expansion of Pipette tips (0.00024  $^\circ\text{C}$ )

*Kaul*  
Calibrated by

*N.V. Kameswara Rao*  
N.V. Kameswara Rao  
Technical Manager  
Authorised Signatory

# SIMCO CALIBRATION LABORATORY

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<b>Certificate No. : SL2106MVL0195-004</b>	<b>Issue Date : 16-07-2021</b>
<b>1. Customer Name &amp; Address:</b> <b>M/s. PACE HOSPITAL</b> Plot No. 23, HUDA Techno Enclave, Patrika Nagar, Madhapur, Hyderabad, Telangana- 500081.	<b>ULR - CC 2 8 0 6 2 1 2 0 0 0 1 0 1 6 F</b>
	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	Identification No. : PHM/BME/LAB/PIE/04
Make : SARTORIUS	Location : 4TH FLOOR
Range : 5-50 µl	Department : Lab
Serial No. : 16563708	

### 3. Details of Standard Instruments Used:

Instrument Name	Serial / Identification No.	Valid up to	Certificate No.
Ultra Micro Balance	SL/PMM/UMB/01	30-05-2022	SL2105MVS0165-001

**4. Environmental Conditions:** Standard Temperature : (23±2)<sup>o</sup>C      Relative Humidity : (50±10) % RH  
Air Pressure : (900-1100)hpa

**5. Calibration Procedure:** SOP-MP-01

**6. Mechanical Calibration: Volume**

### 7. Calibration Results:

Serial No.	Instrument Reading (µl)	Measured Value (µl)	Systematic Error (µl)	Random Error (µl)	Maximum Permissible Error (±µl)		Expanded Uncertainty (±µl)
					Systematic	Random	
1	5	5.0039	0.0039	0.1	0.5	0.2	0.06
2	25	25.0174	0.0174	0.1	0.5	0.2	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.
- This certificate pertains only to the item calibrated.
- The calibration results reported in this certificate are valid at the time of and at the stated environmental conditions.
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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  

$$V_{27} = VT (1 - \gamma (t-27)).$$
 where, VT = Volume measured at temperature t<sup>o</sup>C (ml), V<sub>27</sub> = Volume measured at 27<sup>o</sup>C (ml)  
 $\gamma$  = coefficient of cubical expansion of Pipette tips (0.00024 /<sup>o</sup>C)

*Rach*  
Calibrated by

*N.V. Kameswara Rao*  
N.V. Kameswara Rao  
Technical Manager  
Authorised Signatory

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<b>Certificate No. : SL2106MVL0195-005</b>	<b>Issue Date : 16-07-2021</b>
<b>1. Customer Name &amp; Address:</b> <b>M/s. PACE HOSPITAL</b> Plot No. 23, HUDA Techno Enclave, Patrika Nagar, Madhapur, Hyderabad, Telangana- 500081.	<b>ULR - CC 2 8 0 6 2 1 2 0 0 0 1 0 1 7 F</b>
	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	Identification No. : PHM/BME/LAB/PIE/05
Make : SARTORIUS	Location : 4TH FLOOR
Range : 20-200 µl	Department : Lab
Serial No. : 18050672	

### 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:

Serial No.	Instrument Reading (µl)	Measured Value (µl)	Systematic Error (µl)	Random Error (µl)	Maximum Permissible Error (±µl)		Expanded Uncertainty (±µl)
					Systematic	Random	
1	20	19.65	-0.35	0.1	1.6	0.6	0.07
2	100	99.84	-0.16	0.1	1.6	0.6	0.13
3	200	199.27	-0.73	0.1	1.6	0.6	0.13

### 8. Remarks:

- The instrument was received in good condition and was calibrated at Lab.
- This certificate pertains only to the item calibrated.
- The calibration results reported in this certificate are valid at the time of and at the stated environmental conditions.
- The calibration interval is determined based on customer's requirements.
- The calibration is traceable to National standards as per traceability details given in the certificate.
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- 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

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

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

*Radh*  
Calibrated by

*N.V. Kameswara Rao*  
N.V. Kameswara Rao  
Technical Manager  
Authorised Signatory

# SIMCO CALIBRATION LABORATORY

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## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

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F10-CC-03

<b>Certificate No. : SL2106MVL0195-006</b>	<b>Issue Date : 16-07-2021</b>
<b>1. Customer Name &amp; Address:</b> <b>M/s. PACE HOSPITAL</b> Plot No. 23, HUDA Techno Enclave, Patrika Nagar, Madhapur, Hyderabad, Telangana- 500081.	<b>ULR - CC 2 8 0 6 2 1 2 0 0 0 1 0 1 8 F</b>
	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	Identification No. : PHM/BME/LAB/PIE/06
Make : DRAGON	Location : 4TH FLOOR
Range : 100-1000 µl	Department : Lab
Serial No. : YEAA9AD0010922	

### 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:

Serial No.	Instrument Reading (µl)	Measured Value (µl)	Systematic Error (µl)	Random Error (µl)	Maximum Permissible Error (±µl)		Expanded Uncertainty (±µl)
					Systematic	Random	
1	100	101.25	1.25	0.1	8.0	3.0	0.13
2	500	501.83	1.83	0.1	8.0	3.0	0.13
3	1000	1002.57	2.57	0.1	8.0	3.0	0.13

### 8. Remarks:

- The instrument was received in good condition and was calibrated at Lab.
- This certificate pertains only to the item calibrated.
- The calibration results reported in this certificate are valid at the time of and at the stated environmental conditions.
- The calibration interval is determined based on customer's requirements.
- The calibration is traceable to National standards as per traceability details given in the certificate.
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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

$$V_{27} = V_T (1 - \gamma (t - 27))$$

where,  $V_T$  = Volume measured at temperature  $t^\circ\text{C}$  (ml),  $V_{27}$  = Volume measured at  $27^\circ\text{C}$  (ml)

$\gamma$  = coefficient of cubical expansion of Pipette tips (0.00024  $^\circ\text{C}$ )

*Ravi*  
Calibrated by

*N.V. Kameswara Rao*  
N.V. Kameswara Rao  
Technical Manager  
Authorised Signatory

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## CALIBRATION CERTIFICATE

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<b>Certificate No. : SL2106MVL0195-007</b>	<b>Issue Date : 16-07-2021</b>
<b>1. Customer Name &amp; Address:</b> <b>M/s. PACE HOSPITAL</b> Plot No. 23, HUDA Techno Enclave, Patrika Nagar, Madhapur, Hyderabad, Telangana- 500081.	<b>ULR - CC 2 8 0 6 2 1 2 0 0 0 1 0 1 9 F</b>
	Reference Date : 14-07-2021 Calibration Date : 15-07-2021 Calibration Due Date : 14-07-2022

<b>2. Details of Unit Under Calibration:</b>			
Description : Micro Pipette	Identification No. : PHM/BME/LAB/PIE/07		
Make : DRAGON	Location : 4TH FLOOR		
Range : 5-50 µl	Department : Lab		
Serial No. : YE20BA50075499			

<b>3. Details of Standard Instruments Used:</b>			
Instrument Name	Serial / Identification No.	Valid up to	Certificate No.
Ultra Micro Balance	SL/PMM/UMB/01	30-05-2022	SL2105MVS0165-001

**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**

<b>7. Calibration Results:</b>							
Serial No.	Instrument Reading (µl)	Measured Value (µl)	Systematic Error (µl)	Random Error (µl)	Maximum Permissible Error (±µl)		Expanded Uncertainty (±µl)
					Systematic	Random	
1	5	4.9937	-0.0063	0.1	0.5	0.2	0.06
2	25	24.9864	-0.0136	0.1	0.5	0.2	0.07
3	50	49.9815	-0.0185	0.1	0.5	0.2	0.07

**8. Remarks:**

- a The instrument was received in good condition and was calibrated at Lab.
- b This certificate pertains only to the item calibrated.
- c The calibration results reported in this certificate are valid at the time of and at the stated environmental conditions.
- d The calibration interval is determined based on customer's requirements.
- e The calibration is traceable to National standards as per traceability details given in the certificate.
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- g This calibration certificate is meant for scientific and industrial purpose only.
- h The NABL Symbol is used as per NABL guidelines in NABL-133.
- i The Expanded Uncertainty is reported approximately at 95% confidence level with coverage factor k = 2
- j Random Error are taken as round up value.
- k To use this instrument at other temperatures use the formula given below  

$$V_{27} = V_T (1 - \gamma (t - 27))$$
 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)

*Kash*  
Calibrated by

*N.V. Kameswara Rao*  
N.V. Kameswara Rao  
Technical Manager  
Authorised Signatory



## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

F10-CC-03

<b>Certificate No. : SL2106MVL0195-008</b>	<b>Issue Date : 16-07-2021</b>
<b>1. Customer Name &amp; Address:</b> <b>M/s. PACE HOSPITAL</b> Plot No. 23, HUDA Techno Enclave, Patrika Nagar, Madhapur, Hyderabad, Telangana- 500081.	<b>ULR - CC 2 8 0 6 2 1 2 0 0 0 1 0 2 0 F</b>
	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	Identification No. : PHM/BME/LAB/PIE/07
Make : LABONE	Location : 4TH FLOOR
Range : 20-200 µl	
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:**

Serial No.	Instrument Reading (µl)	Measured Value (µl)	Systematic Error (µl)	Random Error (µl)	Maximum Permissible Error (±µl)		Expanded Uncertainty (±µl)
					Systematic	Random	
1	20	20.13	0.13	0.1	1.6	0.6	0.07
2	100	100.56	0.56	0.1	1.6	0.6	0.13
3	200	200.73	0.73	0.1	1.6	0.6	0.13

- 8. Remarks:**
- The instrument was received in good condition and was calibrated at Lab.
  - This certificate pertains only to the item calibrated.
  - The calibration results reported in this certificate are valid at the time of and at the stated environmental conditions.
  - The calibration interval is determined based on customer's requirements.
  - 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.
  - 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  

$$V_{27} = V_T (1 - \gamma (t-27))$$
 where,  $V_T$  = Volume measured at temperature  $t^\circ\text{C}$  (ml),  $V_{27}$  = Volume measured at  $27^\circ\text{C}$  (ml)  
 $\gamma$  = coefficient of cubical expansion of Pipette tips (0.00024  $^\circ\text{C}$ )

*Carla*  
Calibrated by

*N.V. Kameswara Rao*  
N.V. Kameswara Rao  
Technical Manager  
Authorised Signatory



# SIMCO CALIBRATION LABORATORY

(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 96302 98480 46524  
E-mail simco.hyd@gmail.com, www.simcocalibrationlaboratory.com



CC-2806

**SIMCO**<sup>TM</sup>  
AN ISO 9001 : 2015  
CERTIFIED COMPANY

## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 · 2017

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F10-CC-03

<b>Certificate No. : SL2106MVL0195-009</b>	<b>Issue Date : 16-07-2021</b>
<b>1. Customer Name &amp; Address:</b> <b>M/s. PACE HOSPITAL</b> Plot No. 23, HUDA Techno Enclave, Patrika Nagar, Madhapur, Hyderabad, Telangana- 500081.	<b>ULR - CC 2 8 0 6 2 1 2 0 0 0 1 0 2 1 F</b>
	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	Identification No. : PHM/BME/LAB/PIE/09
Range : 20-200 µl	Location : 4TH FLOOR
Serial No. : YNGA016155	
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:**

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

**8. Remarks:**

- The instrument was received in good condition and was calibrated at Lab.
- This certificate pertains only to the item calibrated.
- The calibration results reported in this certificate are valid at the time of and at the stated environmental conditions.
- The calibration interval is determined based on customer's requirements.
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 where,  $V_T$  = Volume measured at temperature  $t^\circ\text{C}$  (ml),  $V_{27}$  = Volume measured at  $27^\circ\text{C}$  (ml)  
 $\gamma$  = coefficient of cubical expansion of Pipette tips (0.00024  $^\circ\text{C}$ )

*Kal*  
Calibrated by

*N.V. Kameswara Rao*  
N.V. Kameswara Rao  
Technical Manager  
Authorised Signatory