



## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

CC-2800

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<b>Certificate No. : SL2212TS0752-005</b>		<b>Issue Date : 30-12-2022</b>	
<b>1. Customer Name &amp; Address:</b> M/S. Telangana Diagnostics Hub, CHC Hospital, Vikarabad -501 101.		<b>ULR - C C 2 8 0 6 2 2 2 0 0 0 9 4 7 5 F</b>	
<b>2. Details of Unit Under Calibration:</b>		Reference Date : 23-12-2022	
		Calibration Date : 28-12-2022	
		Calibration Due Date : 27-12-2023	

<b>Description : Hot Air Oven</b>			
<b>Make : Navyug</b>	<b>Id No : VKB07</b>		
<b>Range : Amb to 250 °C</b>	<b>Model : NU-101</b>		
<b>Resolution : 0.1 °C</b>	<b>Location : Microbiology</b>		
<b>S. No. : 106.V11.20</b>			

**3. Detail of Standard Instruments Used :**

Instrument Used	SI / Id No	Valid up to	Certificate No.
Universal Data Logger With Sensors (8-Channel)	SL/SMT/DL/02	28-07-2023	SL2207TL0536-001

**4. Environmental Conditions:** Standard Temperature : (25±4)°C Relative Humidity : (50±20) % RH

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

**6. Thermal Calibration: Temperature**

**7. Calibration Results:**

S. No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (± °C)
1	50.2	50.0	-0.2	0.4
2	100.4	100.0	-0.4	0.4
3	150.5	150.0	-0.5	0.4
4	200.7	200.0	-0.7	0.4
5	250.8	250.0	-0.8	0.4

**8. Remarks:**

- The instrument/equipment is in good condition and was calibrated at Site
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- 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 95.45% confidence level with coverage factor k = 2.

*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.

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E-mail: simco.hyd@gmail.com, Info@simco-india.com www.simcocalibrationlaboratory.com



CC-2806

## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

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<b>Certificate No. : SL2212TS0752-001</b>	<b>Issue Date : 30-12-2022</b>
<b>1. Customer Name &amp; Address:</b> M/S. Telangana Diagnostics Hub, CHC Hospital, Vikarabad -501 101.	<b>ULR - C C 2 8 0 6 2 2 2 0 0 0 9 4 7 1 F</b>
	Reference Date : 23-12-2022
	Calibration Date : 28-12-2022 Calibration Due Date : 27-12-2023

### 2. Details of Unit Under Calibration:

Description : Incubator	Id No : VKB08
Make : Navyug	Model : NU-107
Range : Amb to 110 °C	Location : Microbiology
Resolution : 0.1 °C	
S. No. : 109.V11.20	

### 3. Detail of Standard Instruments Used :

Instrument Used	SI / Id No	Valid up to	Certificate No.
Universal Data Logger With Sensors (8-Channel)	SL/SMT/DL/02	28-07-2023	SL2207TL0536-001

**4. Environmental Conditions:** Standard Temperature : (25±4)°C Relative Humidity : (50±20) % RH

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

**6. Thermal Calibration: Temperature**

### 7. Calibration Results:

S. No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (± °C)
1	29.7	30.0	0.3	0.4
2	49.6	50.0	0.4	0.4
3	69.5	70.0	0.5	0.4
4	89.4	90.0	0.6	0.4
5	99.2	100.0	0.8	0.4

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*C. Steffy*  
Calibrated by

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

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<b>Certificate No. : SL2212TS0752-002</b>	<b>Issue Date : 30-12-2022</b>
<b>1. Customer Name &amp; Address:</b> M/S. Telangana Diagnostics Hub, CHC Hospital, Vikarabad -501 101.	<b>ULR - C C 2 8 0 6 2 2 2 0 0 0 9 4 7 2 F</b>
	Reference Date : 23-12-2022
	Calibration Date : 28-12-2022 Calibration Due Date : 27-12-2023

### 2. Details of Unit Under Calibration:

Description : Pharmaceutical Refrigerator	
Make : Remi	Id No : VKB18
Range : 2 to 8 °C	Model : RLR-400
Resolution : 0.1 °C	Location : Lab-2
S. No. : ZGLC-31339	

### 3. Detail of Standard Instruments Used :

Instrument Used	SI / Id No	Valid up to	Certificate No.
Universal Data Logger With Sensors (8-Channel)	SL/SMT/DL/02	28-07-2023	SL2207TL0536-001

**4. Environmental Conditions:** Standard Temperature : (25±4)°C Relative Humidity : (50±20) % RH

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

**6. Thermal Calibration: Temperature**

### 7. Calibration Results:

S. No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (± °C)
1	5.7	5.1	-0.6	0.4

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<b>Certificate No. : SL2212TS0752-003</b>	<b>Issue Date : 30-12-2022</b>
<b>1. Customer Name &amp; Address:</b> M/S. Telangana Diagnostics Hub, CHC Hospital, Vikarabad -501 101.	<b>ULR - C C 2 8 0 6 2 2 2 0 0 0 9 4 7 3 F</b>
	Reference Date : 23-12-2022
	Calibration Date : 28-12-2022
	Calibration Due Date : 27-12-2023

### 2. Details of Unit Under Calibration:

Description : Deep Freezer	
Make : Venchal Scientific	Id No : VKB19
Range : -25 °C	Model : 2512-450
Resolution : 0.1 °C	Location : Lab-2
S. No. : 220202394	

### 3. Detail of Standard Instruments Used :

Instrument Used	SI / Id No	Valid up to	Certificate No.
Universal Data Logger With Sensors (8-Channel)	SL/SMT/DL/02	28-07-2023	SL2207TL0536-001

**4. Environmental Conditions:** Standard Temperature : (25±4)°C Relative Humidity : (50±20) % RH

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

**6. Thermal Calibration: Temperature**

### 7. Calibration Results:

S. No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (± °C)
1	-19.6	-20.3	-0.7	0.9

### 8. Remarks:

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<b>Certificate No. : SL2212TS0752-004</b>	<b>Issue Date : 30-12-2022</b>
<b>1. Customer Name &amp; Address:</b> M/S. Telangana Diagnostics Hub, CHC Hospital, Vikarabad -501 101.	<b>ULR - C C 2 8 0 6 2 2 2 0 0 0 9 4 7 4 F</b>
	Reference Date : 23-12-2022
	Calibration Date : 28-12-2022
	Calibration Due Date : 27-12-2023

### 2. Details of Unit Under Calibration:

Description : Cold Room	
Make : RIMAC	Id No : VKB25
Range : 2 to 8 °C	Location : Cold Room
Resolution : 1 °C	
SI No : C20893	

### 3. Detail of Standard Instruments Used :

Instrument Used	SI / Id No	Valid up to	Certificate No.
Universal Data Logger With Sensors (8-Channel)	SL/SMT/DL/02	28-07-2023	SL2207TL0536-001

**4. Environmental Conditions:** Standard Temperature : (25±4)°C Relative Humidity : (50±20) % RH

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


**6. Thermal Calibration: Temperature**


### 7. Calibration Results:

S. No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (± °C)
1	4.4	5	0.6	0.4

### 8. Remarks:

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## CALIBRATION CERTIFICATE

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<b>Certificate No. : SL2212PS0438-001</b>	<b>Issue Date : 30-12-2022</b>
<b>1. Customer Name &amp; Address:</b> M/S. Telangana Diagnostics Hub, CHC Hospital, Vikarabad -501 101.	<b>ULR - C C 2 8 0 6 2 2 1 0 0 0 0 4 9 7 9 F</b>
	Reference Date : 23-12-2022
	Calibration Date : 28-12-2022
	Calibration Due Date : 27-12-2023

### 2. Details of Unit Under Calibration:

Description : Centrifuge	
Make : REMI	SI No : ZGGN-14143
Range : Up to to 6000 RPM	Id No : VKB10
Resolution : 100 RPM	Location : Microbiology
Model No : R-8C plus	

### 3. Detail of Standard Instruments Used :

Instrument Used	SI / Id No	Valid up to	Certificate No.
Digital Tachometer	175-0010V	30-03-2023	C-220326-7-1

**4. Environmental Conditions:** Standard Temperature : (24±4)°C Relative Humidity : (50±20) % RH

**5. Calibration Procedure:** SOP-PE-08

**6. Mechanical Calibration: Speed**

### 7. Calibration Results:

S. No.	Standard Reading (RPM)	UUC Reading (RPM)	Error (RPM)	Expanded Uncertainty in (± RPM)
1	499.1	500	0.9	57.7
2	998.5	1000	1.5	57.7
3	1997.4	2000	2.6	57.8
4	2996.8	3000	3.2	57.8
5	4996.2	5000	3.8	57.8

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*Co. Stamp*  
Calibrated by

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<b>Certificate No. : SL2212PS0438-002</b>	<b>Issue Date : 30-12-2022</b>
<b>1. Customer Name &amp; Address:</b> M/S. Telangana Diagnostics Hub, CHC Hospital, Vikarabad -501 101.	<b>ULR - C C 2 8 0 6 2 2 1 0 0 0 0 4 9 8 0 F</b>
	Reference Date : 23-12-2022
	Calibration Date : 28-12-2022
	Calibration Due Date : 27-12-2023

### 2. Details of Unit Under Calibration:

Description : Centrifuge	
Make : REMI	SI No : ZGGN-14142
Range : Upto to 6000 RPM	Id No : VKB11
Resolution : 100 RPM	Location : Microbiology
Model No : R-8C plus	

### 3. Detail of Standard Instruments Used :

Instrument Used	SI / Id No	Valid up to	Certificate No.
Digital Tachometer	175-0010V	30-03-2023	C-220326-7-1

**4. Environmental Conditions:** Standard Temperature : (24±4)°C Relative Humidity : (50±20) % RH

**5. Calibration Procedure:** SOP-PE-08

**6. Mechanical Calibration: Speed**

### 7. Calibration Results:

S. No.	Standard Reading (RPM)	UUC Reading (RPM)	Error (RPM)	Expanded Uncertainty in (± RPM)
1	499.3	500	0.7	57.7
2	998.1	1000	1.9	57.7
3	1997.2	2000	2.8	57.8
4	2995.9	3000	4.1	57.8
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<b>Certificate No. : SL2212PS0438-003</b>	<b>Issue Date : 30-12-2022</b>
<b>1. Customer Name &amp; Address:</b> M/S. Telangana Diagnostics Hub, CHC Hospital, Vikarabad -501 101.	<b>ULR - CC 2 8 0 6 2 2 1 0 0 0 4 9 8 1 F</b>
	Reference Date : 23-12-2022
	Calibration Date : 28-12-2022
	Calibration Due Date : 27-12-2023

### 2. Details of Unit Under Calibration:

Description : Centrifuge	SI No : ZGGN-14146
Make : REMI	Id No : VKB12
Range : Upto to 6000 RPM	Location : Microbiology
Resolution : 100 RPM	
Model No : R-8C plus	

### 3. Detail of Standard Instruments Used :

Instrument Used	SI / Id No	Valid up to	Certificate No.
Digital Tachometer	175-0010V	30-03-2023	C-220326-7-1

**4. Environmental Conditions:** Standard Temperature : (24±4)°C Relative Humidity : (50±20) % RH

**5. Calibration Procedure:** SOP-PE-08

**6. Mechanical Calibration: Speed**

### 7. Calibration Results:

S. No.	Standard Reading (RPM)	UUC Reading (RPM)	Error (RPM)	Expanded Uncertainty in (± RPM)
1	500.5	500	-0.5	57.7
2	1001.1	1000	-1.1	57.7
3	2001.9	2000	-1.9	57.8
4	3002.8	3000	-2.8	57.8
5	5004.3	5000	-4.3	57.8

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	Reference Date : 23-12-2022
	Calibration Date : 28-12-2022
	Calibration Due Date : 27-12-2023

### 2. Details of Unit Under Calibration:

Description : Centrifuge	SI No : ZGGN-14145
Make : REMI	Id No : VKB13
Range : Upto to 6000 RPM	Location : Microbiology
Resolution : 100 RPM	
Model No : R-8C plus	

### 3. Detail of Standard Instruments Used :

Instrument Used	SI / Id No	Valid up to	Certificate No.
Digital Tachometer	175-0010V	30-03-2023	C-220326-7-1

**4. Environmental Conditions:** Standard Temperature : (24±4)°C Relative Humidity : (50±20) % RH

**5. Calibration Procedure:** SOP-PE-08

**6. Mechanical Calibration: Speed**

### 7. Calibration Results:

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<b>1. Customer Name &amp; Address:</b> M/S. Telangana Diagnostics Hub, CHC Hospital, Vikarabad -501 101.	<b>ULR - CC 2 8 0 6 2 2 2 0 0 0 9 4 7 1 F</b>
	Reference Date : 23-12-2022
	Calibration Date : 28-12-2022
	Calibration Due Date : 27-12-2023

### 2. Details of Unit Under Calibration:

Description : Incubator	Id No : VKB08
Make : Navyug	Model : NU-107
Range : Amb to 110 °C	Location : Microbiology
Resolution : 0.1 °C	
S. No. : 109.V11.20	

### 3. Detail of Standard Instruments Used :

Instrument Used	SI / Id No	Valid up to	Certificate No.
Universal Data Logger With Sensors (8-Channel)	SL/SMT/DL/02	28-07-2023	SL2207TL0536-001

**4. Environmental Conditions:** Standard Temperature : (25±4)°C Relative Humidity : (50±20) % RH

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

**6. Thermal Calibration: Temperature**

### 7. Calibration Results:

S. No.	Standard Reading (°C)	UUC Reading (°C)	Error (°C)	Expanded Uncertainty in (± °C)
1	29.7	30.0	0.3	0.4
2	49.6	50.0	0.4	0.4
3	69.5	70.0	0.5	0.4
4	89.4	90.0	0.6	0.4
5	99.2	100.0	0.8	0.4

### 8. Remarks:

- The instrument/equipment is in good condition and was calibrated at Site
- 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 95.45% confidence level with coverage factor  $k = 2$ .

*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 2341/342, 2773 1510, Mob: 77299 91231/33, 98480 46524,

E-mail simco.hyd@gmail.com, Info@simco-india.com www.simco Calibration Laboratory.com



C-C-2806

## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

F10-CC-03

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<b>Certificate No. : SL2212MVL0581-001</b>	<b>Issue Date : 02-01-2023</b>
<b>1. Customer Name &amp; Address:</b> M/s. Telangana Diagnostics Hub., CHC HOSPITAL, Vikarabad, Telangana -501 101	<b>ULR - C C 2 8 0 6 2 2 2 0 0 0 3 1 8 5 F</b>
	Reference Date : 30-12-2022
	Calibration Date : 02-01-2023
	Calibration Due Date : 01-01-2024

### 2. Details of Unit Under Calibration:

Description : Micro Pipette	
Make : Thermo Scientific	ID No : VKB21
Range : 100 µl	
SI No. : QW12062	

### 3. Details of Standard Instruments Used:

Instrument Name	SI No./Id No.	Valid up to	Certificate No.
Weighing Balance	SL/PMM/MB/01	13-11-2023	SL2211MVS0229-003

**4. Environmental Conditions:** Standard Temperature : (23±0.5)°C Relative Humidity : (50±10) % RH  
Air Pressure : (900-1100)hpa

**5. Calibration Procedure:** SOP-MVL-03

**6. Standard Procedures:** IS/ISO 8655-6:2022, ISO/TR 20461:2000&IS/ISO 4787:2010

### 7. Mechanical Calibration: Volume

### 8. Calibration Results:

S No.	Instrument Reading (µl)	Measured Value (µl)	Systematic Error (µl)	Random Error (µl)	Maximum Permissible Error (±µl)		Expanded Uncertainty (±µl)
					Systematic	Random	
1	100	100.040	0.040	0.1	0.8	0.3	0.91

### 9. Remarks:

- The instrument/equipment 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 NABL Symbol is used as per NABL guidelines in NABL-133.
- The Expanded Uncertainty is reported approximately at 95.45% 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,  $V_{27}$  = Volume measured at temperature  $t^{\circ}C$  (ml),  $V_{27}$  = Volume measured at  $27^{\circ}C$  (ml)  
 $\gamma$  = coefficient of cubical expansion of Pipette tips ( $0.00024 /^{\circ}C$ )

Calibrated by

Mrs. P.A. Anandam  
Technical Head  
Authorised Signatory

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CC-2806

## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

F10-CC-03

Page : 1 of 1

<b>Certificate No. : SL2212MVL0581-002</b>	<b>Issue Date : 02-01-2023</b>
<b>1. Customer Name &amp; Address:</b> M/s. Telangana Diagnostics Hub., CHC HOSPITAL, Vikarabad, Telangana -501 101	<b>ULR - C C 2 8 0 6 2 2 2 0 0 0 3 1 8 6 F</b>
	Reference Date : 30-12-2022
	Calibration Date : 02-01-2023
	Calibration Due Date : 01-01-2024

### 2. Details of Unit Under Calibration:

Description : Micro Pipette	
Make : Thermo Scientific	ID No : VKB23
Range : 1000 µl	
SI No. : QW15485	

### 3. Details of Standard Instruments Used:

Instrument Name	SI No./Id No.	Valid up to	Certificate No.
Weighing Balance	SL/PMM/SMB/02	13-11-2023	SL2211MVS0229-004

**4. Environmental Conditions:** Standard Temperature : (23±0.5)°C Relative Humidity : (50±10) % RH  
Air Pressure : (900-1100)hpa

**5. Calibration Procedure:** SOP-MVL-03

**6. Standard Procedures:** IS/ISO 8655-6:2022, ISO/TR 20461:2000&IS/ISO 4787:2010

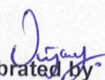
**7. Mechanical Calibration: Volume**


### 8. Calibration Results:

S No.	Instrument Reading (µl)	Measured Value (µl)	Systematic Error (µl)	Random Error (µl)	Maximum Permissible Error (±µl)		Expanded Uncertainty (±µl)
					Systematic	Random	
1	1000	1000.09	0.09	0.1	8.0	3.0	23.91

### 9. Remarks:

- The instrument/equipment 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 95.45% 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 ( $0.00024 / ^\circ\text{C}$ )

Calibrated by 

  
Mrs. P.A. Anandam  
Technical Head  
Authorised Signatory

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CC-2806

## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

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Page : 1 of 1

<b>Certificate No. : SL2212MVL0581-003</b>	<b>Issue Date : 02-01-2023</b>
<b>1. Customer Name &amp; Address:</b> M/s. Telangana Diagnostics Hub., CHC HOSPITAL, Vikarabad, Telangana -501 101	<b>ULR - CC 2 8 0 6 2 2 2 0 0 0 3 1 8 7 F</b>
	Reference Date : 30-12-2022
	Calibration Date : 02-01-2023
	Calibration Due Date : 01-01-2024

### 2. Details of Unit Under Calibration:

Description : Micro Pipette	
Make : Thermo Scientific	ID No : VKB22
Range : 500 µl	
SI No. : QW15369	

### 3. Details of Standard Instruments Used:

Instrument Name	SI No./Id No.	Valid up to	Certificate No.
Weighing Balance	SL/PMM/SMB/02	13-11-2023	SL2211MVS0229-004

**4. Environmental Conditions:** Standard Temperature : (23±0.5)°C Relative Humidity : (50±10) % RH  
Air Pressure : (900-1100)hpa

**5. Calibration Procedure:** SOP-MVL-03

**6. Standard Procedures:** IS/ISO 8655-6:2022, ISO/TR 20461:2000&IS/ISO 4787:2010

**7. Mechanical Calibration: Volume**

### 8. Calibration Results:

S No.	Instrument Reading (µl)	Measured Value (µl)	Systematic Error (µl)	Random Error (µl)	Maximum Permissible Error (±µl)		Expanded Uncertainty (±µl)
					Systematic	Random	
1	500	500.27	0.27	0.1	8.0	3.0	23.91

### 9. Remarks:

- The instrument/equipment was received in good condition and was calibrated at Lab.
- This certificate pertains only to the item calibrated.
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- 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 ( $0.00024 / ^\circ\text{C}$ )

Calibrated by

Mrs. P.A. Anandam  
Technical Head  
Authorised Signatory

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CC-2806

## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

F10-CC-03

Page : 1 of 1

<b>Certificate No. : SL2212MVL0581-004</b>	<b>Issue Date : 02-01-2023</b>
<b>1. Customer Name &amp; Address:</b> M/s. Telangana Diagnostics Hub., CHC HOSPITAL, Vikarabad, Telangana -501 101	<b>ULR - C C 2 8 0 6 2 2 2 0 0 0 3 1 8 8 F</b>
	Reference Date : 30-12-2022
	Calibration Date : 02-01-2023
	Calibration Due Date : 01-01-2024

### 2. Details of Unit Under Calibration:

Description : Micro Pipette	ID No : VKB20
Make : Thermo Scientific	
Range : 50 µl	
SI No. : QW12014	

### 3. Details of Standard Instruments Used:

Instrument Name	SI No./Id No.	Valid up to	Certificate No.
Weighing Balance	SL/PMM/MB/01	13-11-2023	SL2211MVS0229-003

**4. Environmental Conditions:** Standard Temperature : (23±0.5)°C Relative Humidity : (50±10) % RH  
Air Pressure : (900-1100)hpa

**5. Calibration Procedure:** SOP-MVL-03

**6. Standard Procedures:** IS/ISO 8655-6:2022, ISO/TR 20461:2000&IS/ISO 4787:2010

**7. Mechanical Calibration: Volume**

### 8. Calibration Results:

S No.	Instrument Reading (µl)	Measured Value (µl)	Systematic Error (µl)	Random Error (µl)	Maximum Permissible Error (±µl)		Expanded Uncertainty (±µl)
					Systematic	Random	
2	50	50.004	0.004	0.1	0.8	0.3	0.91

### 9. Remarks:

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 $\gamma$  = coefficient of cubical expansion of Pipette tips (0.00024 /°C)

Calibrated by

Mrs. P.A. Anandam  
Technical Head  
Authorised Signatory