

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.simcocalibrationlaboratory.com



CC-2806

CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 ; 2017

F10-CC-03

Page : 1 of 1

Certificate No. : SL2211TS0615-001	Issue Date : 06-12-2022
1. Customer Name & Address: M/S. Telangana Diagnostics, Telangana Diagnostics Hub ,District Government Hospital, Asifabad , Pin No. 504293.	ULR - C C 2 8 0 6 2 2 0 0 0 0 7 4 7 5 F Reference Date : 29-11-2022 Calibration Date : 03-12-2022 Calibration Due Date : 02-12-2023

2. Details of Unit Under Calibration:

Description : Incubator	
Make : Navyug	
Range : Amb to 110 °C	
Resolution : 0.1 °C	

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	29.9	30.0	0.1	0.9
2	49.8	50.0	0.2	0.9
3	69.8	70.0	0.2	0.9
4	89.7	90.0	0.3	0.9
5	99.5	100.0	0.5	0.9

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
Technical Manager
Authorised Signatory

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SIMCOTM
AN ISO 9001 : 2015
CERTIFIED COMPANY



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CALIBRATION CERTIFICATE

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Certificate No. : SL2211TS0615-002	Issue Date : 06-12-2022
1. Customer Name & Address: M/S. Telangana Diagnostics, Telangana Diagnostics Hub ,District Government Hospital, Asifabad , Pin No. 504293.	ULR - CC 2 8 0 6 2 2 0 0 0 0 7 4 7 6 F Reference Date : 29-11-2022 Calibration Date : 03-12-2022 Calibration Due Date : 02-12-2023

2. Details of Unit Under Calibration:

Description : Deep Freezer	Model : 2512.450
Make : Vehcal Scientific	
Range : -20 °C	
Resolution : 0.1 °C	
S. No. : 220202402	

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	-20.5	-20.0	0.5	0.9

8. Remarks:

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Certificate No. : SL2211TS0615-003	Issue Date : 06-12-2022
1. Customer Name & Address: M/S. Telangana Diagnostics, Telangana Diagnostics Hub ,District Government Hospital, Asifabad , Pin No. 504293.	ULR - CC 2 8 0 6 2 2 0 0 0 0 7 4 7 7 F
	Reference Date : 29-11-2022
	Calibration Date : 03-12-2022
	Calibration Due Date : 02-12-2023

2. Details of Unit Under Calibration:

Description : Refrigerator	Model : RLR-400
Make : Remi	
Range : 2 to 8 °C	
Resolution : 0.1 °C	
S. No. : ZGLC-29758	

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	4.1	5.0	0.9	0.9

8. Remarks:

- The instrument/equipment is in good condition and was calibrated at Site
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Certificate No. : SL2211TS0615-004	Issue Date : 06-12-2022
1. Customer Name & Address: M/S. Telangana Diagnostics, Telangana Diagnostics Hub ,District Government Hospital, Asifabad , Pin No. 504293.	ULR - CC 2 8 0 6 2 2 0 0 0 0 7 4 7 8 F
	Reference Date : 29-11-2022
	Calibration Date : 03-12-2022
	Calibration Due Date : 02-12-2023

2. Details of Unit Under Calibration:

Description : Cold Room	
Make : Blue Star	Model : GSM-2020
Range : 2 to 8 °C	
Resolution : 1 °C	
S. No. : ---	

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	0.9

8. Remarks:

- The instrument/equipment is in good condition and was calibrated at Site
- This certificate pertains only to the item calibrated.
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Certificate No. : SL2211PS0358-001	Issue Date : 06-12-2022
1. Customer Name & Address: M/S. Telangana Diagnostics, Telangana Diagnostics Hub ,District Government Hospital, Asifabad , Pin No. 504293.	ULR - C C 2 8 0 6 2 2 1 0 0 0 4 6 2 5 F
	Reference Date : 29-11-2022
	Calibration Date : 03-12-2022
	Calibration Due Date : 02-12-2023

2. Details of Unit Under Calibration:

Description : Centrifuge	SI No : ZGGN-12427
Make : REMI	
Range : Up to to 6000 RPM	
Resolution : 10 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

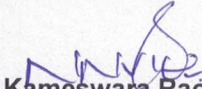
7. Calibration Results:

S. No.	Standard Reading (RPM)	UUC Reading (RPM)	Error (RPM)	Expanded Uncertainty in (± RPM)
1	499.7	500	0.3	6
2	999.2	1000	0.8	6
3	1998.8	2000	1.2	6
4	2998.4	3000	1.6	6
5	4997.8	5000	2.2	6

8. Remarks:

- The instrument/equipment is in good condition and was calibrated at Site
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Certificate No. : SL2211PS0358-002	Issue Date : 06-12-2022
1. Customer Name & Address: M/S. Telangana Diagnostics, Telangana Diagnostics Hub ,District Government Hospital, Asifabad , Pin No. 504293.	ULR - C C 2 8 0 6 2 2 1 0 0 0 4 6 2 6 F
	Reference Date : 29-11-2022
	Calibration Date : 03-12-2022
	Calibration Due Date : 02-12-2023

2. Details of Unit Under Calibration:

Description : Centrifuge	
Make : REMI	SI No : ZGGN-12433
Range : Upto to 6000 RPM	
Resolution : 10 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	499.7	500	0.3	6
2	999.1	1000	0.9	6
3	1998.5	2000	1.5	6
4	2997.8	3000	2.2	6
5	4995.8	5000	4.2	6

8. Remarks:

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Page : 1 of 1

Certificate No. : SL2211PS0358-003	Issue Date : 06-12-2022
1. Customer Name & Address: M/S. Telangana Diagnostics, Telangana Diagnostics Hub ,District Government Hospital, Asifabad , Pin No. 504293.	ULR - C C 2 8 0 6 2 2 1 0 0 0 4 6 2 7 F
	Reference Date : 29-11-2022
	Calibration Date : 03-12-2022
	Calibration Due Date : 02-12-2023

2. Details of Unit Under Calibration:

Description : Centrifuge	SI No : ZGGN-12573
Make : REMI	
Range : Upto to 6000 RPM	
Resolution : 10 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	499.7	500	0.3	6
2	999.1	1000	0.9	6
3	1998.8	2000	1.2	6
4	2998.2	3000	1.8	6
5	4997.5	5000	2.5	6

8. Remarks:

- The instrument/equipment is in good condition and was calibrated at Site
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Certificate No. : SL2211PS0358-004	Issue Date : 06-12-2022
1. Customer Name & Address: M/S. Telangana Diagnostics, Telangana Diagnostics Hub ,District Government Hospital, Asifabad , Pin No. 504293.	ULR - CC 2 8 0 6 2 2 1 0 0 0 4 6 2 8 F
	Reference Date : 29-11-2022
	Calibration Date : 03-12-2022
	Calibration Due Date : 02-12-2023

2. Details of Unit Under Calibration:

Description : Centrifuge	SI No : ZGGN-12564
Make : REMI	
Range : Upto to 6000 RPM	
Resolution : 10 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

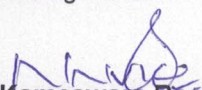
7. Calibration Results:

S. No.	Standard Reading (RPM)	UUC Reading (RPM)	Error (RPM)	Expanded Uncertainty in (± RPM)
1	499.5	500	0.5	6
2	998.8	1000	1.2	6
3	1998.2	2000	1.8	6
4	2997.5	3000	2.5	6
5	4995.9	5000	4.1	6

8. Remarks:

- The instrument/equipment is in good condition and was calibrated at Site
- This certificate pertains only to the item calibrated.
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Certificate No. : SL2212MVL0534-001	Issue Date : 10-12-2022
1. Customer Name & Address: M/s. Telangana Diagnostics Hub., District Government Hospital, Asifabad -504293.	ULR - C C 2 8 0 6 2 2 2 0 0 0 0 2 9 9 7 F
	Reference Date : 06-12-2022 Calibration Date : 07-12-2022 Calibration Due Date : 06-12-2023

2. Details of Unit Under Calibration:

Description : Micro Pipette
Make : Thermo Scientific
Range : 1000 µl
SI No. : QW15510

3. Details of Standard Instruments Used:

Instrument Name	Serial / Identification No.	Valid up to	Certificate No.
Weighing Balance	SL/PMM/SMB/01	11-11-2023	SL2211MVS0229-002

4. Environmental Conditions: Standard Temperature : (23±0.5)°C Relative Humidity : (50±10) % RH

Air Pressure : (900-1100)hpa

Thermal Stabilization : 24 hrs

5. Calibration Procedure: SOP-MVL-02

6. Standard Procedures: OIML R 111-1:2004 & OIML D28:2004

7. Mechanical Calibration: Mass

8. 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	1000	1000.51	0.51	0.1	8.0	3.0	23.91

9. 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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- 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°C (ml)

γ = 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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Certificate No. : SL2212MVL0534-002	Issue Date : 10-12-2022
1. Customer Name & Address: M/s. Telangana Diagnostics Hub., District Government Hospital, Asifabad -504293.	ULR - C C 2 8 0 6 2 2 2 0 0 0 0 2 9 9 8 F
	Reference Date : 06-12-2022 Calibration Date : 07-12-2022 Calibration Due Date : 06-12-2023

2. Details of Unit Under Calibration:

Description	: Micro Pipette
Make	: Thermo Scientific
Range	: 500 µl
SI No.	: QW15426

3. Details of Standard Instruments Used:

Instrument Name	Serial / Identification No.	Valid up to	Certificate No.
Weighing Balance	SL/PMM/SMB/01	11-11-2023	SL2211MVS0229-002

4. Environmental Conditions: Standard Temperature : (23±0.5)°C Relative Humidity : (50±10) % RH

Air Pressure : (900-1100)hpa

Thermal Stabilization : 24 hrs

5. Calibration Procedure: SOP-MVL-02

6. Standard Procedures: OIML R 111-1:2004 & OIML D28:2004

7. Mechanical Calibration: Mass

8. 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	500	500.47	0.47	0.1	8.0	3.0	23.91

9. 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°C (ml)

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

Calibrated by

Mrs. P.A. Anandam
Technical Head
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,

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CC-2806

CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 ; 2017

F10-CC-03

Page : 1 of 1

Certificate No. : SL2212MVL0534-003	Issue Date : 10-12-2022
1. Customer Name & Address: M/s. Telangana Diagnostics Hub., District Government Hospital, Asifabad -504293.	ULR - C C 2 8 0 6 2 2 2 0 0 0 2 9 9 9 F
	Reference Date : 06-12-2022 Calibration Date : 07-12-2022 Calibration Due Date : 06-12-2023

2. Details of Unit Under Calibration:

Description	: Micro Pipette
Make	: Thermo Scientific
Range	: 50 µl
SI No.	: QW15279

3. Details of Standard Instruments Used:

Instrument Name	Serial / Identification No.	Valid up to	Certificate No.
Weighing Balance	SL/PMM/UMB/01	11-11-2023	SL2211MVS0229-001

4. Environmental Conditions: Standard Temperature : (23±0.5)°C Relative Humidity : (50±10) % RH

Air Pressure : (900-1100)hpa

Thermal Stabilization : 24 hrs

5. Calibration Procedure: SOP-MVL-02

6. Standard Procedures: OIML R 111-1:2004 & OIML D28:2004

7. Mechanical Calibration: Mass

8. 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	50	50.0043	0.0043	0.1	0.5	0.2	0.91

9. 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 calibration interval is determined based on customer's requirements.
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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°C (ml)

γ = 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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CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 ; 2017

CC-2806

Page : 1 of 1

F10-CC-03

Certificate No. : SL2212MVL0534-004	Issue Date : 10-12-2022
1. Customer Name & Address: M/s. Telangana Diagnostics Hub., District Government Hospital, Asifabad -504293.	ULR - CC 2 8 0 6 2 2 2 0 0 0 0 3 0 0 0 F
	Reference Date : 06-12-2022 Calibration Date : 07-12-2022 Calibration Due Date : 06-12-2023

2. Details of Unit Under Calibration:

Description	: Micro Pipette
Make	: Thermo Scientific
Range	: 10-100 µl
Resolution	: 0.2 µl
SI No.	: RW00432

3. Details of Standard Instruments Used:

Instrument Name	Serial / Identification No.	Valid up to	Certificate No.
Weighing Balance	SL/PMM/UMB/01	11-11-2023	SL2211MVS0229-001

4. Environmental Conditions: Standard Temperature : (23±0.5)°C Relative Humidity : (50±10) % RH

Air Pressure : (900-1100)hpa Thermal Stabilization : 24 hrs

5. Calibration Procedure: SOP-MVL-02

6. Standard Procedures: OIML R 111-1:2004 & OIML D28:2004

7. Mechanical Calibration: Mass

8. 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	10	10.0043	0.0043	0.1	0.8	0.3	0.91
2	50	50.0052	0.0052	0.1	0.8	0.3	0.91
3	100	100.0059	0.0059	0.1	0.8	0.3	0.91

9. 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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- 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

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

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

Mrs. P.A. Anandam
Technical Head
Authorised Signatory