



Abbott Healthcare Pvt. Ltd.
Floor 13-19, Godrej BKC, Plot C-68
G Block, Bandra Kurla Complex
Near MCA Club, Bandra East
Mumbai - 400051. India

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- 400071. India

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Email : webmaster@abbott.co.in
Site : www.abbottdiagnostics.com
CIN : U24200MH1997PTC104834

Preventive Maintenance & Calibration Certificate

This is to inform that the Abbott Architect C4000 Fully Automated Biochemistry Analyser bearing the serial number c462201 Installed at Telangana Diagnostics HUB, Vikarabad has been performed with the Preventive Maintenance and the Hardware Calibration of the instrument. The results are within the acceptable limit. The Preventive Maintenance and Hardware Calibration was performed on 27th May 2022.

The next Preventive Maintenance and Hardware Calibration due is on 26th May 2023.

For Abbott Healthcare Pvt Ltd.

A handwritten signature in black ink, appearing to read 'P Nagendrakumar', on a light-colored background.

P Nagendrakumar
(Technical Service specialist)



CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

CC-2800

F10-CC-03

Page : 1 of 1

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

2. Details of Unit Under Calibration:

Description : Hot Air Oven	Id No : VKB07
Make : Navyug	Model : NU-101
Range : Amb to 250 °C	Location : Microbiology
Resolution : 0.1 °C	
S. No. : 106.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	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:**
- a The instrument/equipment is in good condition and was calibrated at Site
 - 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.
 - f This calibration certificate shall not be reproduced in full, except with prior written approval of Managing Director, SIMCO Calibration Laboratory.
 - 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 95.45% 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.simcocalibrationlaboratory.com



CC-2806

CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

F10-CC-03

Page : 1 of 1

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

2. Details of Unit Under Calibration:

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

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Certificate No. : SL2212TS0752-002	Issue Date : 30-12-2022
1. Customer Name & Address: M/S. Telangana Diagnostics Hub, CHC Hospital, Vikarabad -501 101.	ULR - C C 2 8 0 6 2 2 2 0 0 0 9 4 7 2 F
	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

8. Remarks:

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Page : 1 of 1

Certificate No. : SL2212TS0752-003	Issue Date : 30-12-2022
1. Customer Name & Address: M/S. Telangana Diagnostics Hub, CHC Hospital, Vikarabad -501 101.	ULR - C C 2 8 0 6 2 2 2 0 0 0 9 4 7 3 F
	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

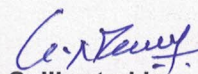
6. Thermal Calibration: Temperature


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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Certificate No. : SL2212TS0752-004	Issue Date : 30-12-2022
1. Customer Name & Address: M/S. Telangana Diagnostics Hub, CHC Hospital, Vikarabad -501 101.	ULR - C C 2 8 0 6 2 2 2 0 0 0 9 4 7 4 F
	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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Page : 1 of 1

Certificate No. : SL2212PS0438-001	Issue Date : 30-12-2022
1. Customer Name & Address: M/S. Telangana Diagnostics Hub, CHC Hospital, Vikarabad -501 101.	ULR - C C 2 8 0 6 2 2 1 0 0 0 0 4 9 7 9 F
	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

8. Remarks:

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Co. Stamp
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Page : 1 of 1

Certificate No. : SL2212PS0438-002	Issue Date : 30-12-2022
1. Customer Name & Address: M/S. Telangana Diagnostics Hub, CHC Hospital, Vikarabad -501 101.	ULR - C C 2 8 0 6 2 2 1 0 0 0 0 4 9 8 0 F
	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
5	4995.1	5000	4.9	57.8

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SIMCOTM
AN ISO 9001 : 2015
CERTIFIED COMPANY



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In accordance with ISO / IEC-17025 : 2017

F10-CC-03

Page : 1 of 1

Certificate No. : SL2212PS0438-003	Issue Date : 30-12-2022
1. Customer Name & Address: M/S. Telangana Diagnostics Hub, CHC Hospital, Vikarabad -501 101.	ULR - CC 2 8 0 6 2 2 1 0 0 0 4 9 8 1 F
	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:

S. No.	Standard Reading (RPM)	UUC Reading (RPM)	Error (RPM)	Expanded Uncertainty in (± RPM)
1	499.3	500	0.7	57.7
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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 : 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.)

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C-C-2806

CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

F10-CC-03

Page : 1 of 1

Certificate No. : SL2212MVL0581-001	Issue Date : 02-01-2023
1. Customer Name & Address: M/s. Telangana Diagnostics Hub., CHC HOSPITAL, Vikarabad, Telangana -501 101	ULR - C C 2 8 0 6 2 2 2 0 0 0 3 1 8 5 F
	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 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_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

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CALIBRATION CERTIFICATE

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Page : 1 of 1

Certificate No. : SL2212MVL0581-002	Issue Date : 02-01-2023
1. Customer Name & Address: M/s. Telangana Diagnostics Hub., CHC HOSPITAL, Vikarabad, Telangana -501 101	ULR - C C 2 8 0 6 2 2 2 0 0 0 3 1 8 6 F
	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°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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Page : 1 of 1

Certificate No. : SL2212MVL0581-003	Issue Date : 02-01-2023
1. Customer Name & Address: M/s. Telangana Diagnostics Hub., CHC HOSPITAL, Vikarabad, Telangana -501 101	ULR - C C 2 8 0 6 2 2 2 0 0 0 3 1 8 7 F
	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.
- 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°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

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Page : 1 of 1

Certificate No. : SL2212MVL0581-004	Issue Date : 02-01-2023
1. Customer Name & Address: M/s. Telangana Diagnostics Hub., CHC HOSPITAL, Vikarabad, Telangana -501 101	ULR - C C 2 8 0 6 2 2 2 0 0 0 3 1 8 8 F
	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:

- The instrument/equipment was received in good condition and was calibrated at Lab.
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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 /°C)

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