



Abbott Healthcare Pvt. Ltd.  
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## Preventive Maintenance & Calibration Certificate

This is to inform that the Abbott Architect C4000 fully automated Biochemistry Analyzer bearing the serial number S/N:C462159 Installed at Telangana Diagnostic Hub, Nirmal has been performed with the PM & Hardware Calibration of the instrument. The result are within the acceptable limit. The Hardware Calibration & PM was performed on 27<sup>th</sup> February 2023.

The next Preventive Maintenance and Hardware Calibration due is on 26<sup>th</sup> February 2024

For Abbott Healthcare Pvt Ltd.

Mahesh.Lokam

(Technical support specialist)

*Mahesh*

## Procedure Report

**Procedure:** 2134 Change Water Bath

**Procedure version:** 6

**Module no.:** 1

**Serial no.:** c462159

**Operator ID:** FSE

**Date:** 27.02.2023

**Time:** 10:02:53

**Status:** Completed

### Results:

2134 Change Water Bath procedure completed.

## Procedure Report

**Procedure:** 6016 Check Dispense Components

**Procedure version:** 7

**Module no.:** 1

**Serial no.:** c462159

**Operator ID:** FSE

**Date:** 27.02.2023

**Time:** 09:53:26

**Status:** Completed

### Results:

Check dispense components procedure completed.

## Procedure Report

**Procedure:** 6018 Clean Cuvette Washer Nozzles

**Procedure version:** 6

**Module no.:** 1

**Serial no.:** c462159

**Operator ID:** FSE

**Date:** 27.02.2023

**Time:** 09:47:15

**Status:** Completed

### Results:

Clean cuvette wash nozzles procedure completed.

## Procedure Report

**Procedure:** 6300 Clean ICT Drain Tip

**Procedure version:** 5

**Module no.:** 1

**Serial no.:** c462159

**Operator ID:** FSE

**Date:** 27.02.2023

**Time:** 09:47:02

**Status:** Completed

### Results:

Clean ICT Drain tip procedure completed.

# Procedure Report

**Procedure:** 6026 Check Syringes and Valves

**Procedure version:** 6

**Module no.:** 1

**Serial no.:** c462159

**Operator ID:** FSE

**Date:** 27.02.2023

**Time:** 09:46:51

**Status:** Completed

## Results:

Check Syringes and Solenoid Valves procedure completed.

## Procedure Report

**Procedure:** 6308 Check HC Waste Pump Tubing

**Procedure version:** 6

**Module no.:** 1

**Serial no.:** c462159

**Operator ID:** FSE

**Date:** 27.02.2023

**Time:** 09:46:35

**Status:** Completed

### Results:

Check HC Waste Pump Tubing procedure completed.

## Procedure Report

**Procedure:** 6023 Clean Sample/Reagent Probes

**Procedure version:** 9

**Module no.:** 1

**Serial no.:** c462159

**Operator ID:** FSE

**Date:** 27.02.2023

**Time:** 09:46:20

**Status:** Completed

### Results:

Clean sample and reagent probes procedure completed.



## Procedure Report

**Procedure:** 6021 Clean Mixers

**Procedure version:** 6

**Module no.:** 1

**Serial no.:** c462159

**Operator ID:** FSE

**Date:** 27.02.2023

**Time:** 09:45:16

**Status:** Completed

### Results:

Clean mixers procedure completed.

## Procedure Report

**Procedure:** 6028 Check DI Water Purity

**Procedure version:** 4

**Module no.:** 1

**Serial no.:** c462159

**Operator ID:** FSE

**Date:** 27.02.2023

**Time:** 09:43:30

**Status:** Completed

### Results:

Check DI Water Purity procedure completed.

## Procedure Report

**Procedure:** 6024 Check 1 mL Syringes

**Procedure version:** 5

**Module no.:** 1

**Serial no.:** c462159

**Operator ID:** FSE

**Date:** 27.02.2023

**Time:** 09:43:09

**Status:** Completed

### Results:

Check 1 mL syringes procedure completed.

## Procedure Report

**Procedure:** 2132 Flush Water Lines

**Procedure version:** 4

**Module no.:** 1

**Serial no.:** c462159

**Operator ID:** FSE

**Date:** 27.02.2023

**Time:** 09:40:10

**Status:** Completed

### Results:

2132 Flush Water Lines procedure completed.

## Procedure Report

**Procedure:** 3240 Bar Code Calibration

**Procedure version:** 2

**Module no.:** 0

**Serial no.:** RSH62159

**Operator ID:** FSE

**Date:** 27.02.2023

**Time:** 09:11:58

**Status:** Completed

### Results:

Calibrated Bar Code Position:

4166

Calibration completed

## Procedure Report

**Procedure:** 3525 Temperature Status

**Procedure version:** 4

**Module no.:** 1

**Serial no.:** c462159

**Operator ID:** FSE

**Date:** 27.02.2023

**Time:** 09:09:02

**Status:** Completed

### Results:

Processing Area	Temperature	Status
Water Bath	37.00	OK
Reagent Supply Center.	5.80	OK
Instrument Internal.	27.60	OK

# Procedure Report

**Procedure:** 1122 R2 Pipettor Calibration

**Procedure version:** 9

**Module no.:** 1

**Serial no.:** c462159

**Operator ID:** FSE

**Date:** 27.02.2023

**Time:** 09:08:13

**Status:** Completed

## Results:

Calibration Point	Theta	Z	Carousel
Wash Cup	1	NA	NA
Reaction Carousel	1	NA	1
Outer Segment	3	3	20
Inner Segment	3	7	16

Calibration passed

# Procedure Report

**Procedure:** 1121 R1 Pipettor Calibration

**Procedure version:** 10

**Module no.:** 1

**Serial no.:** c462159

**Operator ID:** FSE

**Date:** 27.02.2023

**Time:** 08:54:58

**Status:** Completed

## Results:

Calibration Point	Theta	Z	Carousel
Wash Cup	2	NA	NA
Reaction Carousel	1	NA	1
Outer Segment	-3	2	24
Inner Segment	-3	8	-11

Calibration passed



## Procedure Report

**Procedure:** 1114 Carrier Transport Calibration

**Procedure version:** 13

**Module no.:** 0

**Serial no.:** RSH62159

**Operator ID:** FSE

**Date:** 27.02.2023

**Time:** 08:40:15

**Status:** Completed

### Results:

Position	Result
X at bay 1	2883
X at bay 2	7895
X at bay 3	12899
X at bay 4	17915
Theta at positioner	55
Z at positioner pocket 1	8050
X at positioner pocket 1	14121
Z at positioner pocket 2	8050
X at positioner pocket 2	9085
Z at bay 1	8006
Z at bay 2	7989
Z at bay 3	7991
Z at bay 4	7999

## Procedure Report

**Procedure:** 1120 Sample Pipettor Calibration

**Procedure version:** 12

**Module no.:** 1

**Serial no.:** c462159

**Operator ID:** FSE

**Date:** 27.02.2023

**Time:** 08:27:37

**Status:** Completed

### Results:

Calibration Point	Theta	Z	Carousel	Carrier Position
Reaction Carousel	1	27	1	NA
Wash Cup	1	NA	NA	NA
Sample Handler	-1	16	NA	55

Calibration passed.

## Procedure Report

**Procedure:** 6070 Daily Maintenance

**Procedure version:** 16

**Module no.:** 1

**Serial no.:** c462159

**Operator ID:**

**Date:** 27.02.2023

**Time:** 10:36:37

**Status:** Completed

### Results:

6070 Daily Maintenance Procedure completed.

# QC Results List Report

Unreleased

Operator ID:

System serial number: 82689

C / P	Module	SID	Control name	Assay	Result	Flags	Code	Date / Time
L306/2	5	HbA1cHLevel 2	HbA1cH - Level 2	%A1cWB	9.4 %			27.02.2023 11:14
L306/1	5	HbA1cHLevel 1	HbA1cH - Level 1	%A1cWB	5.2 %			27.02.2023 11:14
L307/2	1	RANDOXLevel 3	RANDOX - Level 3	AlbBCG2	2.7 g/dL			27.02.2023 11:07
L307/1	1	RANDOXLevel 2	RANDOX - Level 2	AlbBCG2	4.0 g/dL			27.02.2023 11:04
L307/2	1	RANDOXLevel 3	RANDOX - Level 3	AlkP	299 U/L			27.02.2023 11:10
L307/1	1	RANDOXLevel 2	RANDOX - Level 2	AlkP	162 U/L			27.02.2023 11:07
L307/2	1	RANDOXLevel 3	RANDOX - Level 3	ALT	129 U/L			27.02.2023 11:14
L307/1	1	RANDOXLevel 2	RANDOX - Level 2	ALT	35 U/L			27.02.2023 11:10
L307/2	1	RANDOXLevel 3	RANDOX - Level 3	AMY2	295 U/L			27.02.2023 11:13
L307/1	1	RANDOXLevel 2	RANDOX - Level 2	AMY2	85 U/L			27.02.2023 11:10
L307/2	1	RANDOXLevel 3	RANDOX - Level 3	AST	132 U/L			27.02.2023 11:13
L307/1	1	RANDOXLevel 2	RANDOX - Level 2	AST	29 U/L			27.02.2023 11:09
L307/2	1	RANDOXLevel 3	RANDOX - Level 3	BiID	1.63 mg/dL	CNTL, 1-2s		27.02.2023 11:13
L307/1	1	RANDOXLevel 2	RANDOX - Level 2	BiID	1.03 mg/dL			27.02.2023 11:09
L307/2	1	RANDOXLevel 3	RANDOX - Level 3	BiIiT	4.96 mg/dL			27.02.2023 11:09
L307/1	1	RANDOXLevel 2	RANDOX - Level 2	BiIiT	1.45 mg/dL			27.02.2023 11:06
L307/2	1	RANDOXLevel 3	RANDOX - Level 3	BUN 2	56 mg/dL			27.02.2023 11:11
L307/2	1	RANDOXLevel 3	RANDOX - Level 3	BUN 2	56 mg/dL			27.02.2023 11:11
L307/1	1	RANDOXLevel 2	RANDOX - Level 2	BUN 2	21 mg/dL			27.02.2023 11:08
L307/1	1	RANDOXLevel 2	RANDOX - Level 2	BUN 2	21 mg/dL			27.02.2023 11:08
L307/2	1	RANDOXLevel 3	RANDOX - Level 3	CaC	11.8 mg/dL			27.02.2023 11:06
L307/1	1	RANDOXLevel 2	RANDOX - Level 2	CaC	8.6 mg/dL			27.02.2023 11:03

# QC Results List Report

Unreleased

Operator ID:

System serial number: 82689

C / P	Module	SID	Control name	Assay	Result	Flags	Code	Date / Time
L307/2	1	RANDOXLevel 3	RANDOX - Level 3	Chol	262 mg/dL			27.02.2023 11:12
L307/1	1	RANDOXLevel 2	RANDOX - Level 2	Chol	155 mg/dL			27.02.2023 11:08
L307/2	1	RANDOXLevel 3	RANDOX - Level 3	CrEnz	4.29 mg/dL			27.02.2023 11:13
L307/1	1	RANDOXLevel 2	RANDOX - Level 2	CrEnz	1.40 mg/dL			27.02.2023 11:10
L307/2	1	RANDOXLevel 3	RANDOX - Level 3	GGT	157 U/L	EXP		27.02.2023 11:13
L307/1	1	RANDOXLevel 2	RANDOX - Level 2	GGT	48 U/L	EXP		27.02.2023 11:10
L307/2	1	RANDOXLevel 3	RANDOX - Level 3	GluC	272 mg/dL			27.02.2023 11:07
L307/1	1	RANDOXLevel 2	RANDOX - Level 2	GluC	104 mg/dL			27.02.2023 11:04
L307/2	1	RANDOXLevel 3	RANDOX - Level 3	LDH	358 U/L			27.02.2023 11:13
L307/1	1	RANDOXLevel 2	RANDOX - Level 2	LDH	201 U/L			27.02.2023 11:10
L307/2	1	RANDOXLevel 3	RANDOX - Level 3	TPRO2	4.3 g/dL			27.02.2023 11:09
L307/1	1	RANDOXLevel 2	RANDOX - Level 2	TPRO2	5.6 g/dL			27.02.2023 11:05
L307/2	1	RANDOXLevel 3	RANDOX - Level 3	Trig	242 mg/dL			27.02.2023 11:07
L307/1	1	RANDOXLevel 2	RANDOX - Level 2	Trig	85 mg/dL			27.02.2023 11:03
L307/2	1	RANDOXLevel 3	RANDOX - Level 3	UHDL	82 mg/dL			27.02.2023 11:13
L307/1	1	RANDOXLevel 2	RANDOX - Level 2	UHDL	55 mg/dL			27.02.2023 11:10
L307/2	1	RANDOXLevel 3	RANDOX - Level 3	Uric2	8.8 mg/dL			27.02.2023 11:14
L307/1	1	RANDOXLevel 2	RANDOX - Level 2	Uric2	5.6 mg/dL			27.02.2023 11:11

# 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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CC-2806

## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

F10-CC-03

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<b>Certificate No. : SL2211PS0356-001</b>	<b>Issue Date : 06-12-2022</b>
<b>1. Customer Name &amp; Address:</b> <b>M/S. Telangana Diagnostics</b> Telangana Diagnostic Hub Nirmal, Area Hospital, Priyadarshini Nagar, Nirmal 504106	<b>ULR - CC 2 8 0 6 2 2 1 0 0 0 4 5 2 8 F</b>  Reference Date : 29-11-2022 Calibration Date : 01-12-2022 Calibration Due Date : 30-11-2023

### 2. Details of Unit Under Calibration:

Description : Centrifuge	SI No : ZGGN-12572
Make : REMI	Location : Centrifuge Room
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	499.5	500	0.5	6
2	999.1	1000	0.9	6
3	1998.8	2000	1.2	6
4	2998.3	3000	1.7	6
5	4997.5	5000	2.5	6

### 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  $k=2$ .

*M. C. U. S.*  
Calibrated by

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

# SIMCO CALIBRATION LABORATORY

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AN ISO 9001 : 2015  
CERTIFIED COMPANY



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## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

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<b>Certificate No. : SL2211PS0356-002</b>	<b>Issue Date : 06-12-2022</b>
<b>1. Customer Name &amp; Address:</b> M/S. Telangana Diagnostics Telangana Diagnostic Hub Nirmal, Area Hospital, Priyadarshini Nagar, Nirmal 504106	<b>ULR - C C 2 8 0 6 2 2 1 0 0 0 0 4 5 2 9 F</b>
	Reference Date : 29-11-2022 Calibration Date : 01-12-2022 Calibration Due Date : 30-11-2023

### 2. Details of Unit Under Calibration:

Description : Centrifuge	SI No : ZGGN-12426
Make : REMI	Location : Centrifuge Room
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	499.6	500	0.4	6
2	999.2	1000	0.8	6
3	1998.8	2000	1.2	6
4	2998.3	3000	1.7	6
5	4997.1	5000	2.9	6

### 8. Remarks:

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*M. C. ...*  
Calibrated by

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

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Page : 1 of 1

<b>Certificate No. : SL2211PS0356-003</b>	<b>Issue Date : 06-12-2022</b>
<b>1. Customer Name &amp; Address:</b> M/S. Telangana Diagnostics Telangana Diagnostic Hub Nirmal, Area Hospital, Priyadarshini Nagar, Nirmal 504106	<b>ULR - C C 2 8 0 6 2 2 1 0 0 0 0 4 5 3 0 F</b> Reference Date : 29-11-2022 Calibration Date : 01-12-2022 Calibration Due Date : 30-11-2023

### 2. Details of Unit Under Calibration:

Description : Centrifuge	SI No : ZGGN-12568
Make : REMI	Location : Centrifuge Room
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	2997.7	3000	2.3	6
5	4995.9	5000	4.1	6

### 8. Remarks:

- The instrument/equipment is in good condition and was calibrated at Site
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*M. S. S. S.*  
Calibrated by

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



## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

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<b>Certificate No. : SL2211PS0356-004</b>	<b>Issue Date : 06-12-2022</b>
<b>1. Customer Name &amp; Address:</b> M/S. Telangana Diagnostics Telangana Diagnostic Hub Nirmal, Area Hospital, Priyadarshini Nagar, Nirmal 504106	<b>ULR - C C 2 8 0 6 2 2 1 0 0 0 0 4 5 3 1 F</b>
	Reference Date : 29-11-2022 Calibration Date : 01-12-2022 Calibration Due Date : 30-11-2023

### 2. Details of Unit Under Calibration:

Description : Centrifuge	SI No : ZGGN-12570
Make : REMI	Location : Centrifuge Room
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	499.6	500	0.4	6
2	999.1	1000	0.9	6
3	1998.8	2000	1.2	6
4	2998.2	3000	1.8	6
5	4997.4	5000	2.6	6

### 8. Remarks:

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

M.C. Gupta  
Calibrated by

N.V. Kameswara Rao  
Technical Manager  
Authorised Signatory

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CC-2806

## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

F10-CC-03

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<b>Certificate No. : SL2212MVL0530-001</b>	<b>Issue Date : 10-12-2022</b>
<b>1. Customer Name &amp; Address:</b> M/s. Telangana Diagnostic Hub., Nirmal Area Hospital, Priyadarshini Nagar, Nirmal -504106.	<b>ULR - CC 2 8 0 6 2 2 2 0 0 0 2 9 8 1 F</b>
	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 : 100 µl	
SI No. : QW12064	

### 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	100	100.0039	0.0039	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.
- 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 /°C)

Calibrated by

Mrs. P.A. Anandam  
Technical Head  
Authorised Signatory



CC-2806

## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

F10-CC-03

Page : 1 of 1

<b>Certificate No. : SL2212MVL0530-002</b>	<b>Issue Date : 10-12-2022</b>
<b>1. Customer Name &amp; Address:</b> M/s. Telangana Diagnostic Hub., Nirmal Area Hospital, Priyadarshini Nagar, Nirmal -504106.	<b>ULR - C C 2 8 0 6 2 2 2 0 0 0 2 9 8 2 F</b>
	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.	: QW15265

### 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	50.0049	0.0049	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.
- 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 /°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,

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

**SIMCO**<sup>TM</sup>

AN ISO 9001 : 2015  
CERTIFIED COMPANY



CC-2806

## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

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<b>Certificate No. : SL2212MVL0530-003</b>	<b>Issue Date : 10-12-2022</b>
<b>1. Customer Name &amp; Address:</b> M/s. Telangana Diagnostic Hub., Nirmal Area Hospital, Priyadarshini Nagar, Nirmal -504106.	<b>ULR - C C 2 8 0 6 2 2 2 0 0 0 2 9 8 3 F</b>
	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.	: RW00383

### 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	10.0	10.0029	0.0029	0.1	0.8	0.3	0.91
2	50.0	50.0033	0.0033	0.1	0.8	0.3	0.91
3	100.0	100.0041	0.0041	0.1	0.8	0.3	0.91

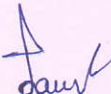
### 9. Remarks:

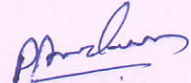
- The instrument was received in good condition and was calibrated at Lab.
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- The calibration interval is determined based on customer's requirements.
- The calibration is traceable to National standards as per traceability details given in the certificate.
- 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 /°C)

  
Calibrated by

  
Mrs. P.A. Anandam  
Technical Head  
Authorised Signatory



CC-2806

## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

F10-CC-03

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<b>Certificate No. : SL2212MVL0530-004</b>	<b>Issue Date : 10-12-2022</b>
<b>1. Customer Name &amp; Address:</b> M/s. Telangana Diagnostic Hub., Nirmal Area Hospital, Priyadarshini Nagar, Nirmal -504106.	<b>ULR - CC 2 8 0 6 2 2 2 0 0 0 2 9 8 4 F</b>
	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. : RW00385

**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	10.0	10.0032	0.0032	0.1	0.8	0.3	0.91
2	50.0	50.0039	0.0039	0.1	0.8	0.3	0.91
3	100.0	100.0044	0.0044	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.
- 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 ( $0.00024 / ^\circ\text{C}$ )

Calibrated by

Mrs. P.A. Anandam  
Technical Head  
Authorised Signatory