

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

Registered Office:

4, Corporate Park, Sion Trombay Road, Mumbai

- 400071. India

T : +91 22 3816 2000 / 1010

F : +91 22 3816 2400 / 2401 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 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 27th February 2023.

The next Preventive Maintenance and Hardware Calibration due is on 26th February 2024

For Abbott Healthcare Pvt Ltd.

Mahesh.Lokam

(Technical support specialist)

Bloke

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.

Printed on: 27.02.2023

10:03:06AM

**ARCHITECT** 

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.

Printed on: 27.02.2023

9:53:39AM

**ARCHITECT** 

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.

Printed on: 27.02.2023

9:47:58AM

**ARCHITECT** 

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.

Printed on: 27.02.2023

9:47:37AM

**ARCHITECT** 

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.

Printed on: 27.02.2023

9:47:16AM

ARCHITECT

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.

Printed on: 27.02.2023

9:46:54AM

**ARCHITECT** 

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.

Printed on: 27.02.2023

9:46:33AM

**ARCHITECT** 

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.

Printed on: 27.02.2023

9:45:33AM

**ARCHITECT** 

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.

Printed on: 27.02.2023

9:43:42AM

**ARCHITECT** 

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.

Printed on: 27.02.2023

9:43:21AM

**ARCHITECT** 

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.

Printed on: 27.02.2023

9:40:24AM

**ARCHITECT** 

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

Printed on: 27.02.2023

9:12:15AM

**ARCHITECT** 

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

Printed on: 27.02.2023

9:09:03AM

**ARCHITECT** 

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

Printed on: 27.02.2023

9:08:39AM

**ARCHITECT** 

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

Printed on: 27.02.2023

8:55:15AM

**ARCHITECT** 

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

Printed on: 27.02.2023

8:41:25AM

**ARCHITECT** 

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.

Printed on: 27.02.2023

8:28:06AM

**ARCHITECT** 

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.

Printed on: 27.02.2023

10:36:43AM

**ARCHITECT** 

# QC Results List Report

Unreleased

Operator ID:

System serial number: 82689

C/P		Mo	odule	SID	Control	Hed A			System serial n	umber: 82689		
	5/2	5		HLevel 2	Control name		Assay	No.	Result	Flags	Code	Date / Time
		1	TIDATO	nLevel 2	HbA1cH - Level	2	%A1cWB		9.4 %	wast   wa	T	
L306/	/1	5	HbA1cl	HLevel 1	HbA1cH - Level	1	%A1cWB		5.2 %			27.02.202 11:14
L307/	2	1	RANDO	XLevel 3	RANDOX - Level	13	AlbBCG2		2.7 g/dL	T   X love	Kogte	27.02.202 11:14
L307/	1	1	RANDO	XLevel 2	RANDOX - Level	2	AlbBCG2		4.0 g/dL	5 in 6	30339	27.02.202 11:07
L307/2	2	1	RANDO	XLevel 3	RANDOX - Level	3 4	AlkP			API Cimin		27.02.202 11:04
L307/1		1	RANDO	XLevel 2	RANDOX - Level		.lkP		299 U/L		XOON	27.02.202; 11:10
L307/2		1	RANDO	KLevel 3	RANDOX - Level			TO SECOND	162 U/L	evol 2	KOUM	27.02.2023 11:07
L307/1			RANDOX				LT	776	129 U/L	ASP (\$1865)	took :	27.02.2023
L307/2			RANDOX		RANDOX - Level 2		LT	398	35 U/L	3 leve )	2	11:14 27.02.2023
L307/1					RANDOX - Level 3		MY2	MOU	295 U/L	19 6 Sans X	2	11:10 7.02.2023
			RANDOX		RANDOX - Level 2	AN	IY2	1903	85 U/L	Si Stan	2	11:13 7.02.2023
L307/2	1	1   F	RANDOXI	_evel 3	RANDOX - Level 3	AS	Т		132 U/L			11:10
_307/1	1	R	RANDOXL	evel 2	RANDOX - Level 2	AS	т		29 U/L			11:13
.307/2	1	R	ANDOXL	evel 3	RANDOX - Level 3	Bild			1.63 mg/dL			7.02.2023 11:09
307/1	1	R	ANDOXL	evel 2	RANDOX - Level 2	BilD				CNTL, 1-2s	27	.02.2023 11:13
307/2	1	RA	ANDOXL	evel 3	RANDOX - Level 3	BiliT			1.03 mg/dL	S leve. XC		.02.2023 11:09
307/1	1	RA	NDOXLe	evel 2	RANDOX - Level 2				4.96 mg/dL	S leve XO		02.2023 11:09
807/2	1	RA	NDOXLe	vel 3		BiliT			1.45 mg/dL	\$ 19ve 000	27.	02.2023 11:06
07/2			NDOXLe		RANDOX - Level 3	BUN	2		56 mg/dL	E jove Ko	27.0	02.2023
17.07					RANDOX - Level 3	BUN	2		56 mg/dL	2 Java (20)		1:11
	1	RAI	NDOXLev	rel 2	RANDOX - Level 2	BUN :	2		21 mg/dL			1:11 2.2023
07/1 1		RAN	NDOXLev	rel 2	RANDOX - Level 2	BUN 2	2		21 mg/dL		1	1:08
7/2 1	1	RAN	DOXLev	el 3	RANDOX - Level 3	CaC			11.8 mg/dL		11	:08
7/1 1	F	RAN	DOXLeve	el 2	RANDOX - Level 2	CaC			8.6 mg/dL		11	2.2023
	1											2.2023 :03

Printed on: 27.02.2023

11:15:55AM

ARCHITECT

# **QC Results List Report**

Unreleased

Operator ID:

System serial number: 82689

C/P	Мо	dule	SID	Control name	Assay	quarA	Result	Flags	Code	Date / Time
L307/2	1		OXLevel 3	RANDOX - Level 3	Chol	BA SPARE	262 mg/dL	Steel	itor is	27.02.2023 11:12
L307/1	1		OXLevel 2	RANDOX - Level 2	Chol		155 mg/dL	f feet	# to like	27.02.2023 11:08
L307/2	1		OXLevel 3	RANDOX - Level 3	CrEnz	2 Deed	4.29 mg/dL	8 levs.	KOOLA	27.02.2023 11:13
L307/1	1		XLevel 2	RANDOX - Level 2	CrEnz		1.40 mg/dL	C lave		27.02.2023 11:10
L307/2	1		XLevel 3	RANDOX - Level 3	GGT	984	157 U/L	EXP	KOGIAK	27.02.2023 11:13
L307/1	1	RANDO	XLevel 2	RANDOX - Level 2	GGT	ORAL TA	48 U/L	EXP	хови	27.02.2023 11:10
L307/2	1	RANDO	XLevel 3	RANDOX - Level 3	GluC	In	272 mg/dL	S leve.	KOONA	27.02.2023 11:07
L307/1	1	RANDO	XLevel 2	RANDOX - Level 2	GluC	TON	104 mg/dL	S lave.	xoak	27.02.2023 11:04
L307/2	1	RANDO	XLevel 3	RANDOX - Level 3	LDH	ANTYZ	358 U/L	E teap.	NO EM	27.02.2023 11:13
L307/1	1	RANDO	XLevel 2	RANDOX - Level 2	LDH	ASO(2	201 U/L	S level.	XOC 6	27.02.2023 11:10
_307/2	1	RANDO	XLevel 3	RANDOX - Level 3	TPRO2	TRA	4.3 g/dL	E lave.	XOGX	27.02.2023 11:09
_307/1	1	RANDO	XLevel 2	RANDOX - Level 2	TPRO2	TEAL	5.6 g/dL	Steve	XOERA	27.02.2023 11:05
307/2	1	RANDO	XLevel 3	RANDOX - Level 3	Trig	016	242 mg/dL	E favo.	XOGVS	27.02.2023 11:07
.307/1	1	RANDO	XLevel 2	RANDOX - Level 2	Trig	ORS	85 mg/dL	Ŝ liste.	XOGIA!	27.02.2023 11:03
307/2	1	RANDO	XLevel 3	RANDOX - Level 3	UHDL	198	82 mg/dL	E levs.	хоои	27.02.2023 11:13
307/1	1	RANDO	XLevel 2	RANDOX - Level 2	UHDL	Thia	55 mg/dL	, ervel 2	KOOK	27.02.2023 11:10
.307/2	1	RANDO	XLevel 3	RANDOX - Level 3	Uric2	SUR	8.8 mg/dL	6 leve.	KOGM	27.02.2023 11:14
307/1	1	RANDO	XLevel 2	RANDOX - Level 2	Uric2	SVEJE	5.6 mg/dL	E leve.	(OGM	27.02.2023 11:11



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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

F10-CC-03

Page: 1 of 1

Certificate No.: SL2211PS0356-001	Issue Date : 06-12-2022
1. Customer Name & Address:	ULR - C C 2 8 0 6 2 2 1 0 0 0 0 4 5 2 8 F
M/S. Telangana Diagnostics	0211
Telangana Diagnostic Hub Nirmal,	Reference Date : 29-11-2022
Area Hospital, Priyadarshini Nagar,	Calibration Date : 01-12-2022
Nirmal 504106	Calibration Due Date : 30-11-2023

#### 2 Details of Unit Under Calibration:

Description	:	Centrifuge				
Make		REMI	SI No	(*)	ZGGN-12572	
Range	:	Up to to 6000 RPM	Location		Centrifuge Room	
Resolution	:	10 RPM				1,54
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

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:

- 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.
- 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.

M, cusi

Calibrated by

N.V. Kameswara Rao Technical Manager Authorised Signatory

Relative Humidity: (50±20) % RH



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CC-280F

## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025: 2017

F10-CC-03

Page: 1 of 1

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

#### 2. Details of Unit Under Calibration:

Description	:	Centrifuge		
Make	:	REMI	SI No	: ZGGN-12426
Range		Upto to 6000 RPM	Location	: Centrifuge Room
Resolution	:	10 RPM		
Model No	:	R-8C plus		
0 0	400			

### 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:

- a The instrument/equipment is in good condition and was calibrated at Site
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Calibrated by

N.V. Kameswara Rao Technical Manager Authorised Signatory



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## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025: 2017

F10-CC-03	Page: 1 of			
Certificate No.: SL2211PS0356-003	Issue Date : 06-12-2022			
1. Customer Name & Address:	ULR - C C 2 8 0 6 2 2 1 0 0 0 0 4 5 3 0 F			
M/S. Telangana Diagnostics	OLK - C C 2 8 0 6 2 2 1 0 0 0 0 4 5 3 0 F			
Telangana Diagnostic Hub Nirmal,	Reference Date : 29-11-2022			
Area Hospital, Priyadarshini Nagar,	Calibration Date : 01-12-2022			
Nirmal 504106	Calibration Due Date : 30-11-2023			

#### 2. Details of Unit Under Calibration:

Description	:	Centrifuge		
Make	:	REMI	SI No	: ZGGN-12568
Range	:	Upto to 6000 RPM	Location	: Centrifuge Room
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 a
- This certificate pertains only to the item calibrated. b
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- The Expanded Uncertainty is reported approximately at 95.45% confidence level with coverage factor k = 2.

M1(, m/ Calibrated by

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



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CC-28

# CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025: 2017

F10-CC-03

Page: 1 of 1

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

#### 2. Details of Unit Under Calibration:

Description	:	Centrifuge				
Make	-:	REMI	SI No	:	ZGGN-12570	
Range	;	Upto to 6000 RPM	Location	:	Centrifuge Room	
Resolution	:	10 RPM			o on an ago i koom	
Model No		R-8C plus				
3 D-4-11 - 6 C	24	1 11 /				

#### 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:

- a The instrument/equipment is in good condition and was calibrated at Site
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- i 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

## ISO 9001 CERTIFIED COMPANY

# 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





## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

F10-CC-03

Certificate No. : SL2212MVL0530-001	Page: 1 of 1		
1. Customer Name & Address:	Issue Date : 10-12-2022		
M/s. Telangana Diagnostic Hub.,	ULR - CC280622200002981F		
Nirmal Area Hospital, Priyadarshini Nagar, Nirmal -504106.	Reference Date : 06-12-2022		
141111a1 -304 100.	Calibration Date : 07-12-2022		
2 Details of Heit Heit	Calibration Due Date : 06-12-2023		

#### 2. Details of Unit Under Calibration:

Description	:	Micro Pipette	
Make	:	Thermo Scientific	
Range	:	100 μΙ	
SI No.	:	QW12064	
3 Details of	Cto	male and I all a second	

#### Details of Standard Instruments Used:

Instrument Name	Serial / Identification No.	14	
	ochar/ identification No.	Valid up to	Certificate No.
Weighing Balance	SL/PMM/UMB/01	11-11-2023	SL2211MVS0229-001
4. Environmental Conditions: Sta	andard Temperature : (23±0	.5)°C Relative H	umidity : (50+10) % RH

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 (µI)	Measured Value (µI)	Systematic Error (µI)	Random	Maximum Permissible Error (±µI)		Expanded
1	100		2.101 (ді)	Error (µI)	Systematic	Random	Uncertainty (±µI)
	100	100.0039	0.0039	0.1	0.8	0.3	0.91
9. Rem	narke.						0.01

- The instrument was received in good condition and was calibrated at Lab.
- This certificate pertains only to the item calibrated. b С
- 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.
- 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. q
- The NABL Symbol is used as per NABL guidelines in NABL-133.
- The Expanded Uncertainty is reported approximately at 95% confidence level with coverage factor k=2
- Random Error are taken as round up value.
- To use this instrument at other temperatures use the formula given below  $V27 = VT (1- \gamma (t-27)).$

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

Calibrated by



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CC-2806

## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025: 2017

F10-CC-03

Page: 1 of 1

Certificate No.: SL2212MVL0530-002	Issue Date : 10-12-2022		
Customer Name & Address:     M/s. Telangana Diagnostic Hub.,	ULR - C C 2 8 0 6 2 2 2 0 0 0 0 2 9 8 2 F		
Nirmal Area Hospital, Priyadarshini Nagar,	Reference Date : 06-12-2022		
Nirmal -504106.	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 μΙ	
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

Air Pressure : (900-1100)hpa

Relative Humidity: (50±10) % RH

Thermal Stabilization: 24 hrs

lura

5. Calibration Procedure:6. Standard Procedures:

SOP-MVL-02

OIML R 111-1:2004 & OIML D28:2004

7. Mechanical Calibration: Mass

#### 8. Calibration Results:

Serial	Instrument	Measured			Maximum Permis	Expanded	
No.	Reading (µI)	Value (µI)	Error (µI)	Error (µI)	Systematic	Random	Uncertainty (±µI)
1	50	50.0049	0.0049	0.1	0.5	0.2	0.91

#### 9. Remarks:

- a The instrument was received in good condition and was calibrated at Lab.
- b This certificate pertains only to the item calibrated.
- c The calibration results reported in this certificate are valid at the time of and at the stated environmental conditions.
- d The calibration interval is determined based on customer's requirements.
- e The calibration is traceable to National standards as per traceability details given in the certificate.
- 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% confidence level with coverage factor k=2
- j Random Error are taken as round up value.
- k To use this instrument at other temperatures use the formula given below V27 = VT (1- y (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)

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F10-CC-03

# SIMCO CALIBRATION LABORATORY

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## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025: 2017

Page: 1 of 1

Certificate No. : SL2212MVL0530-003	Issue Date : 10-12-2022		
1. Customer Name & Address:	ULR - C C 2 8 0 6 2 2 2 0 0 0 0 2 9 8 3 F		
M/s. Telangana Diagnostic Hub.,			
Nirmal Area Hospital, Priyadarshini Nagar,	Reference Date : 06-12-2022		
Nirmal -504106.	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 μΙ
Resoultion	:	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:

	Bration recal				1		
Serial	Instrument	Measured	Systematic	Random	Maximum Permis	sible Error (±µl)	Expanded
No.	Reading (µI)	Value (µI)	Error (µI)	Error (µI)	Systematic	Random	Uncertainty (±µl)
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:

- a The instrument was received in good condition and was calibrated at Lab.
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- j Random Error are taken as round up value.
- k To use this instrument at other temperatures use the formula given below

V27 = VT (1-y (t-27)).

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

Calibrated by



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## CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025: 2017

F10-CC-03

Certificate No. : SL2212MVL0530-004	rage: 1 of 1		
1. Customer Name & Address:	Issue Date : 10-12-2022		
M/s. Telangana Diagnostic Hub.,	ULR - C C 2 8 0 6 2 2 2 0 0 0 0 2 9 8 4 F		
Nirmal Area Hospital, Priyadarshini Nagar, Nirmal -504106.	Reference Date : 06-12-2022		
Nimai -504 (06.	Calibration Date : 07-12-2022		
2 Details of Unit II I a	Calibration Due Date : 06-12-2023		

2. Details of Unit Under Calibration:

Description	:	Micro Pipette	
Make	:	Thermo Scientific	
Range		10-100 µI	
Resoultion	:	0.2 µl	
SI No.	:	RW00385	
3 Dotaile of	C4-	male and the second	

#### 3. Details of Standard Instruments Used:

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

4. Environmental Conditions: Standard Temperature: (23±0.5)°C

Relative Humidity: (50±10) % RH Thermal Stabilization: 24 hrs

5. Calibration Procedure:

SOP-MVL-02

6. Standard Procedures:

OIML R 111-1:2004 & OIML D28:2004

Air Pressure: (900-1100)hpa

7. Mechanical Calibration: Mass

#### 8. Calibration Results:

Serial No.	Instrument Reading (µI)	Measured Value (µl)	Systematic Error (µI)	Random	Maximum Permissible Error (±µI)		Expanded
1	10.0			Error (µI)	Systematic	Random	Uncertainty (±µI)
		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		
Dom					0.0	0.3	0.91

#### 9. Remarks:

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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