

REPORT ON

TEMPERATURE MAPPING OF

REFRIGERATOR

	Report ID:	UCL/20649/TM 3721/22
	Client's Code:	SP/INS/02
	UCL Identification Code:	20649/01
	Mapping Start Date:	19/04/2022
	Mapping End Date:	20/04/2022
Recommended (if requ	uired) Next Mapping Date:	19/04/2023



Note: This report is issued subject to conditions stated overleaf.



'Sampada', Near Mithakhali Circle, Navrangpura medabad-380 009. Gujarat Ph. 079 - 3560 4649 lail: ucalibration@gmail.com | universalcalibration@yahoo.in



UNIVERSAL CALIBRATION

UCL Identification Code: 20649/01 Service Request No.: 20649

Report No: UCL/20649/TM 3721/22

Client's Code: SP/INS/02 Mapping Start Date: 19/04/2022

Mapping Completion Date 20/04/2022 Recommended Due Date: 19/04/2023

Client: SUNRISE PATHOLOGY LABORATORY

Address: Shop No. 104, 1st Floor, Sun Height, Sneh Plaza Road

Chandkheda - 382424, Ahmedabad, Gujarat

Specification of Device under Mapping:

Nomenclature: REFRIGERATOR Make: SAMSUNG

Model: 0457 RA21F | Sr. No. NA

Note: Dates are in DD/MM/YYYY format, unless mentioned specifically

Nos. Used: 10

Temperature Mapping Specification:

are mapping opecinication.					
Nos. of Temperature Measurement Locations:	10	Numbers			
Time Interval between successive data log:	5	Minutes			
Effective duration of mapping:	24	Hour			
Mapping Start Date (in mm/dd/yyyy format *);	'4/19	/2022'	Time:	'11:04:46 AM'	* Refer Table 1
Mapping End Date (in mm/dd/yyyy format *):	'4/20	/2022'	Time:	'11:04:46 AM'	4
Set Temperature of Device:	N	IA			- 10
Load Quantity in Device during Mapping:	Load di	stributed in	n total vol	ume	

Client's Acceptance Criteria:

Freezer: Average registered temperature, at any location should be within 0 to -25 °C Storage: Average registered temperature, at any location should be within 5 °C ± 3

Scope and Objective of Temperature Mapping:

- 1 To measure, record and report temperature data acquired at different pre-determined locations inside the Unit under Temperature Mapping / Validation. The temperature data are acquired through appropriate data logger or data scanner via appropriate temperature sensors placed at above referred measurement locations. The data were acquired at fixed time interval and for effective duration mentioned in mapping specifications.
- 2 To identify the location(s) that manifested highest and Lowest average as well as peak temperature value during the reported evaluation period.

Data Logging / Scanning System Used during Mapping:

Nomenclature: Temperature Data Loggers

UCL/DLT/95 (Selective Loggers Used) Make: TEMPRECORD UCL IDs UCL/DLT/85 · to

60 °C Resolution: 0.01 Operational Range: -29 °C to Internally Calibrated vide certificate no. UCL/INT/T/1557-1616, Cal. Date: 09-10/11/2021

Traceability:

Digital Thermometer with Sensor, Make: DOSTMANN ELECTRONICS, Model: P755, Indicator Sr.No: 75519120357, Sensor Sr. No. 27100015P100171428, (Instrument ID : UCL/MF/05, Sensor ID : UCL/TS/69) Calibrated By NCQC, Ahmedabad vide Certi No.: NCQC-T/121021/001 Cal Date: 12/10/2021. Measurements are traceable to National Standards

> (Brief description given hereunder) UCL SOP ID: UCL/VA/01

Mapping / Validation Procedure Adopted:

The Unit under temperature mapping or validation (UUM) was inspected and appropriate locations to place temperature sensor of data logger were identify. The loading condition of UUM was recorded in terms of Fully-Loaded, Partially-Loaded or Empty-No-Load condition. The data loggers, that were programmed to capture temperature data at required time interval; were appropriately placed and adhered at the identified locations, ensuring that no direct heat or radiation fall on them. Required UUM information was recoded.

Authorized Signatory:

Name: V. S. In-Charge Laboratory Issued By Name: Ashish Shah

Technical Manager Page 1 of 9 Report ID: UCL/20649/TM 3721/22

Issue Date: 20/04/2022 UCL Identification Code: 20649/01

Client's Code: SP/INS/02

eport is issued subject to conditions stated overleaf.



Scanned with OKEN Scanner

or Ary on

The UUM was securely locked and was allowed to open and operate in normal usual procedure of the client, if required, to simulate actual working procedure of the client's users. UUM and its cooling system was kept in idle running condition throughout the mapping period.

On expiry of schedule mapping or validation test period that includes the data report period plus additional temperature stabilization period for data loggers; the loggers were removed from UUM and data were uploaded to a Computer system through which they were programmed. Data files of each logger were converted for MSexcel programmed, locationwise grouped together and relevant data for reporting period were marked and analyzed.

Locationwise summary in terms of average, standard deviation, maximum, minimum, range was prepared along overall summary. The recorded data along with the analysis and graphical presentation were included in the mapping / validation report.

LOCATIONWISE PLACEMENT OF DATALOGGER SENSORS

Data Logger	Location		Location Det	ails
ID	ID	HEIGHT	FACE	ŞIDE
UCL/DLT/85	1	Тор	Back	Right
UCL/DLT/86	2	Тор	Front	Left
UCL/DLT/87	3	Top	Back	Left
UCL/DLT/88	4	Top	Front	Right
UCL/DLT/89	5	Top-Middle	Back	Right
UCL/DLT/90	6	Top-Middle	Front	Left
UCL/DLT/91	7	Bottom-Middle	Back	Right
UCL/DLT/92	8	Bottom-Middle	Front	Left
UCL/DLT/93	9	Bottom	Front	Right
UCL/DLT/95	10	Bottom	Back	Left

cummary and Result of Acquired Data.								
T/86 UCL/DLT/87	UCL/DLT/88	UCL/DLT/89	UCL/DLT/90	UCL/DL1/91	UCL/DL1/92	OCEDETION	40	
2	1	5	6	7	8	9	10	
J 3	7	·		0.50	0.07	E 02	4.97	
3 3 77	2.98	6.50	4.21	6,58	6.67	5.02		
		7.05	E 20	7 83	7 95	7 19	6.42	
3 5.51	4.25	7.85	5.30					
2 2 12	2.08	5.84	3 53	5.92	5.77	5.15	4.01	
3 2.13				4.04	0.40	2.04	2.41	
3 38	1 2.17	1 2.01	1.85	1.91	2.10	2.04		
		0.26	0.36	0.39	0.43	0.40	0.44	
3 0.76	0.52	0.30	0.50	0.00	0.10	0		
	T/86 UCL/DLT/87 3 3 3 3 7 5 5 13 2 13 2 13 3 7 7 7 7 7 7 7 7 7 7 7 7	77/96 UCUDLT/87 UCUDLT/88 3 4 3 3.77 2.98 3 5.51 4.25 3 2.13 2.08 9 3.38 2.17	T1786 UCUDLT/87 UCUDLT/88 UCUDLT/89	3 4 5 6 3 4 5 6 3 5 6 4.21 3 5.51 4.25 7.85 5.38 3 2.13 2.08 5.84 3.53 9 3.38 2.17 2.01 1.85 9 3.6 3.2 3.2 3.2	T1786 UCL/DLT/87 UCL/DLT/88 UCL/DLT/89 UCL/DLT/	T1786 UCL/DLT/87 UCL/DLT/88 UCL/DLT/89 UCL/DLT/99 UCL/DLT/	T1786 UCL/DLT/187 UCL/DLT/188 UCL/DLT/189 UCL/DLT/199 UCL/DL	

Hot Spot I

* * * * * * * * * * * * * * * * * * *	110020.0.		A 1		
Identification:	Temperature (°C)	Location	Temperature (°C)	Location	
		2	6.67	8 HOT SPOT	
Highest (Warmest) Average Temperature:		1	2.98	4 COLD SPOT	
Lowest (Warmest) Average Temperature:		2	7.95	8	
Hotest Temperature Recorded:	12.10	1	2.08	4	
Coldest Temperature Recorded:	-13.19				

Eroozer Unit

Authorized Signatory: Name: V.

In-Charge Laboratory

Name: Ashish Shah Technical Manager

Page 2 of 9

Report ID: UCL/20649/TM 3721/22

Storage Unit

Issue Date: 20/04/2022

UCL Identification Code: 20649/01 Client's Code: SP/INS/02

lote: This report is issued subject to conditions stated overleaf.



Acceptance:

Client's Acceptance Criteria	COMMENT
FREEZER 0 to -25 °C	ACCEPTED: Average register values are with in 0 to -25 °C
Client's Acceptance Criteria	COMMENT
STORAGE 5 ± 3 °C	ACCEPTED: Average register values are with in 5 ± 3 °C

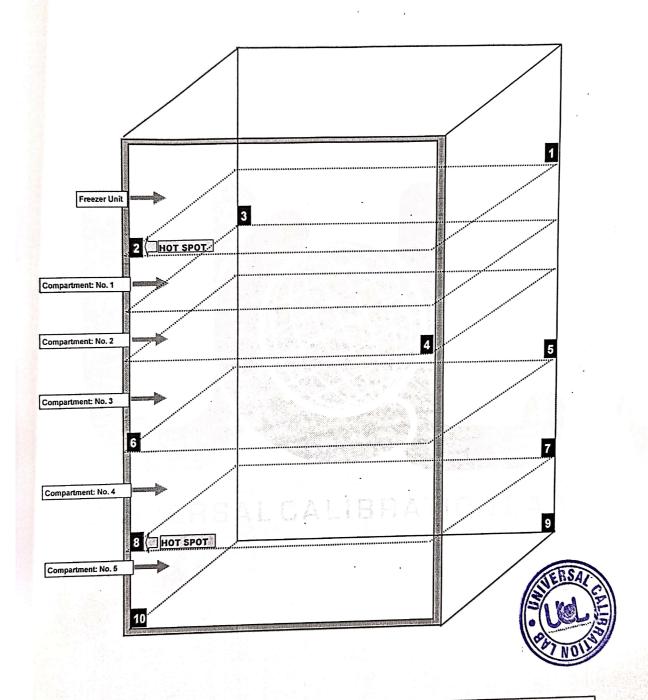


Figure 1: Diagram showing Placement of Data-Logger Sensors in the Unit under Mapping / Validation. 1, 2 ... are the locations inside the UUM where data logger sensors were placed. Sketch not to the scale

Authorized Signatory: In-Charge Laboratory

Issued By: Name: Ashish Shah Technical Manager Page 3 of 9

Report ID: UCL/20649/TM 3721/22 Issue Date: 20/04/2022 UCL Identification Code: 20649/01 Client's Code: SP/INS/02

ote: This report is issued subject to conditions stated overleaf.

212, 'Sampada', Near Mithakhali Circle, Navrangpura Ahmedabad-380 009. Gujarat Ph. 079 - 3560 4649 email: ucalibration@gmail.com | universalcalibration@yahoo.in



UCL Identification Code: 20647/01 Service Request No.: 20647

Report No.: UCL/20647/HY 32097/22

Client UUC Code: SP/INS/03 Item Receipt Date: 19/04/2022 Calibration Date 19/04/2022

1.0 Client:

SUNRISE PATHOLOGY LABORATORY

2.0 Address:

Shop No. 104, 1st Floor, Sun Height, Sneh Plaza Road,

Chandkheda - 382 424 , Ahmedabad , Gujarat

3.0 Description of Item:

Nomenclature: DIGITAL IN/OUT THERMOHYGROMETER (OUT SENSOR)

Make: EUROLAB Model: 288ATH Sr. No. NA

Temperature (°C) UUC Range: -50 to 70 Calibration Range: -25 to 50 Resolution: 0.1

Relative Humidity (%) 10 to 99 30 to 85

Location of Calibration:

At UCL Lab.

Humidity:

Not Specified Not Specified

4.0 Environment Condition:

Temperature:

33.7°C

32%

5.0 Calibration Details:

5.1 Standards Used:

Nomenclature DIGITAL THERMOHYGROMETER WITH RH SENSOR

UCL ID No. UCL/MF/01 & UCL/THS/03

Calibration Date 10/02/2022 Due Date 09/02/2023 Calibration Agency NCQC, Ahmedabad Uncertainty ± RH % 3.20 Nomenclature DIGITAL THERMOMETER WITH SENSOR

Accuracy:

UCL ID No. UCL/MF/05 & UCL/TS/69 Calibration Date 12/10/2021

Due Date 11/10/2022 Calibration Agency NCQC, Ahmedabad Uncertainty ± °C 2.20

5.2 Equipment Used:

Nomenclature Hot-Cold Liquid Bath UCL ID No. UCL/LB/02

Humidity Generator UCL/HG/01

5.3 Calibration Procedure:

UCL SOP No:

UCL/HY/02

For Relative Humidity (% RH) calibration, the Unit Under Calibration (UUC) along with Temperature-Humidity sensor of Reference Humidity Indicator (STD) were placed inside the Humidity Generator on which required humidity and temperature values were set. On stabilization, indicated temperature & humidity values of both UUC and STD were recorded. For External temperature calibration , both (UUC) and (STD) were placed inside a translucent sealed chamber of heating-cooling Liquid Bath on which required temperature values were set. On stabilization, indicated temperature values of both UUC and STD were recorded. The calibration was performed by comparison of UUC values with STD values.

6.0 Traceability:

Digital Thermohygrometer with Rh Sensor, Make: DOSTMANN Electronic, Model: P655LOG/6020-1001, Sr.No: 65508120086, (ID: UCL/MF/01), Sensor Sr. No.: 2710FBB32C81F69C171665 (ID: UCL/THS/03), Calibrated by NCQC, Ahmedabad vide Certi No.: NCQC-T/100222/001 dated: 10/02/2022. Measurements are traceable to National Standards.

Digital Thermometer with Temperature Sensor, Make: DOSTMANN ELECTRONICS, Model: P755, Base Unit Sr.No: 75519120357, Sensor Sr. No. 27100015P100171428, (Instrument ID: UCL/MF/05, Sensor ID: UCL/TS/69) Calibrated By NCQC, Ahmedabad vide Certi No.: NCQC-T/121021/001 Dated: 12/10/2021. Measurements are traceable to National Standards

7.0 Recommended Calibration Due Date (Refer Note 4 given overleaf):

19/04/2023

Prepared By: Day)

Format: UCL/CR/01, Issue No. 01, Revision: 00, Issue Date: 01/12/2008

22 oul or

Note: This report is issued subject to conditions stated overleaf.



212, 'Sampada', Near Mithakhali Circle, Navrangpura Ahmedabad-380 009. Gujarat Ph. 079 - 3560 4649 email; ucalibration@gmail.com | universalcalibration@yahoo.in



UCL Identification Code: 20647/01 Service Request No.: 20647

Report No.: UCL/20647/HY 32097/22

Client UUC Code: SP/INS/03 Item Receipt Date: 19/04/2022 Calibration Date 19/04/2022

A: Relative Humidity and Associated Temperature :

Standard* Humidity % RH	UUC * Humidity % RH	Error#	Uncertainty (±)%RH	Standard* Temperature °C	UUC * Temperature °C	Error # °C	Uncertainty (±) ^o C
30.3	32	1.7	3.25	25,18	24.9	-0,28	2.20
55.2	54	-1.2	3.25	25.24	25.6	0.36	2.20
85.4	84	-1.4	3.25	25.22	25.0	-0.22	2.20

Mean of Five Observations

UUC - Unit Under Calibration

B: External Temperature:

Standard* Temperature °C	UUC * Temperature °C	Error #	Uncertainty (±) ^O C
-24.98	-24.7	0.28	2,20
2.23	2.5	0.27	2.20
8.19	7.8	-0.39	2.20
25.19	25.5	0.31	2.20
50.20	50.6	0.40	2.20

^{*} Mean of Five Observations

UUC - Unit Under Calibration # Error = UUC Value - STD Value

The combined standard uncertainties were multiplied by a coverage factor of 2 to give expanded uncertainties, which defines the interval having approximately 95 % of confidence level. The expanded uncertainities is not to be confused with accuracy or error of UUC.

Prepared By : D. N.Da

Authorised Signatory Name: V. S. Jadeja

Designation: In-Charge Laboratory

Issued By: Name: Ashish Shah Designation: Technical Manager

Date of Issue: 19/04/2022

Format: UCL/CR/01, Issue No. 01, Revision: 00, Issue Date: 01/12/2008

Note: This report is issued subject to conditions stated overleaf.

Page 2 of 2

[#] Error = UUC Value - STD Value

212, 'Sampada', Near Mithakhali Circle, Navrangpura Ahmedabad-380 009. Gujarat Ph. 079 - 3560 4649 email: ucalibration@gmail.com | universalcalibration@yahoo.in



UCL Identification Code: 20649/02 Service Request No.: 20649

Report No : UCL/20649/CF 0586/22

Client UUC Code: SP/INS/05 Item Receipt Date: 20/04/2022 Calibration Date: 20/04/2022

1.0

Client: SUNRISE PATHOLOGY LABORATORY

2.0

Address: Shop No. 104, 1st Floor, Sun Height, Sneh Plaza Road, Chandkheda - 382 424 , Ahmedabad , Gujarat

3.0 Description of Item:

Nomenclature: NON COOLING CENTRIFUGE

Make: REMI Model: R-8C

Sr. No. ZCBN-04685

Calibration Range Resolution Accuracy:

Speed (RPM) Time(Minute) 1500 to 4000 5 to 15 Not Specified

Location of Calibration: At Site

4.0 Environment Condition:

Temperature: NA

Humidity: NA

5.0 Calibration Details:

5.1 Standards and Equipments Used:

Nomenclature: DIGITAL TACHOMETER

UCL ID No. UCL/TM/02

Cal. Date: 18/05/2021

Due Date: 17/05/2022

Cal Agency: NCQC, Ahmedabad

Uncertainty:

RPM ± 6.10

DIGITAL STOP WATCH

UCL/SW/05

27-09 to 02-10-2021

01-10-2022

NCQC, Ahmedabad

Sec. ± 25.07

5.2 Calibration Procedure:

UCL SOP No:

UCL/CF/01

Rotational speed of Unit Under Calibration (UUC) was measured using reference standard Tachometer (STD) of working rotor. Time period of UUC was set for adequate period and at an interval of every 5-minutes of UUC timer, the time period was measured on reference standard Timer (STD) that was used in split memory mode. Based on the corrected STD values, UUC errors in these parameters were calculated.

6.0 Traceability:

6.1 Digital Tachometer, Make: LUTRON, Model: DT 2234B, Sr.No: Q609041 (UCL/TM/02) Calibrated by NCQC, Ahmedabad (NABL Accredited Lab) vide Certl No.: NCQC-M/180521/02, Cal. Date: 18/05/2021 Traceable to International Standards through National Standards

6.2 Digital Stop Watch, Make: Fisher Scientific, Model NII, Sr.No: 122571131 (UCL/SW/05) Calibrated By Calibrated by NCQC, Ahmedabad (NABL Accredited Lab) vide Certi No.: NCQC-E/270921/02 Dated 27-9 to 02-10-2021. Traceable to National Standards

7.0 Recommended Calibration Due Date (Refer Note 4 given overleaf):

20/04/2023

Prepared By: D, N. Dani.

Format: UCL/CR/01, Issue No. 01, Revision: 00, Issue Date: 01/12/2008

Page 1 of 2

ALAN 53/01/50

Note: This report is issued subject to conditions stated overleaf.



212. 'Sampada', Near Mithakhali Circle, Navrangpura Ahmedabad-380 009. Gujarat Ph. 079 - 3560 4649 email: ucalibration@gmail.com|universalcalibration@yahoo.in



UNIVERSAL CALIBRATION LAB

UCL Identification Code: 20649/02 Service Request No.: 20649 Report No : UCL/20649/CF 0586/22

Client UUC Code: SP/INS/05 Item Receipt Date: 20/04/2022 Calibration Date: 20/04/2022

A: Rotational Speed of Rotors (RPM) Measurement

Load Condition	UUC Set Speed (RPM)	Standard * Speed (RPM)	Error# (RPM)	% Error	Uncertainty (± RPM)
	1500	1505	-5	-0.33	6.17
	2000	2004	-4	-0.22	6.34
NOLOAD	2500	2496	4	0.18	6.18
NO LOAD	3000	2997	3	0.10	6.18
	3500	3497	3	0.09	6.21
	4000	4001	-1	-0.02	6.33

^{*} Mean of five Observations

UUC - Unit Under Calibration

B: Time Period Measurement

UUC Period* (Sec)	Standard Observed * Period (Sec)	Error # (Sec)	Uncertainty (± Sec/Min)
300	300.35	-0.35	25.078
600	599.99	0.01	25.092
900	899.82	0.18	25.080
	Overall Er	-0.010	
	Overall Uncertaint	0.418	

^{*} Mean of minimum three Observations # Error = UUC Value - STD Value

UUC - Unit Under Calibration

The combined standard uncertainties were multiplied by a coverage factor of 2 to give expanded uncertainities, which defines the interval having approximately 95 % of confidence level. The expanded uncertainities is not to be confused with

accuracy or error of UUC.

Prepared By: D. N. Dayi.

LERSAL EN LOUIS

Authorised Signatory:

Name: V. S. Jadeja Designation: In-Charge

Laboratory

Issued By: Name: Ashish Shah
Designation: Technical Manager

Date of Issue: 20/04/2022

Format: UCL/CR/01, Issue No. 01, Revision: 00, Issue Date: 01/12/2008

Page 2 of 2

[#] Error = UUC Value - STD Value



(NABL Accredited Laboratory as per ISO/IEC 17025)

CALIBRATION CERTIFICATE							
Certificate No.:-	EIE/M/22521	ULR No:-	CC22222300000513F	Page No 1 of 2			
SRF No:	Job Card No:	Calibration Date	Recommended Due Date	Certificate Issue Date			
EIE/22544	222161	22/04/2022	21/04/2023	22/04/2022			

Customer Name & Address

SUNRISE PATHOLOGY LABORATORY

SHOP NO. 104, 1st FLOOR, SUN HEIGHT, SNEH PLAZA ROAD, CHANDKHEDA -

382424, AHMEDABAD, GUJARAT

Instrument received on

21/04/2022

Details of Unit Under Calibration

Micropipette Name of Instruments

Durapet

Model No ID No.

SP/INS/06

Make

100 to 1000 µl

Accuracy

Range

Location

Resolution

10 µl

Condition on Receipt

Good

Calibration Location

Mass - Balance Calibration Laboratory

Referance Work Instruction Number

EIE/W/M/004

Environmental condition

Temperature - (23 ± 1.5) °C

Humidity - (40 to 60) % RH

Standard Used :						
Nomenclature	Range	Make / ID No:	Uncertainty	Certificate No:	Calibration Due Date	Traceable By
Standard Weights E1 Class	1 mg to 500g	WEIGHTRONICS/ EIE/CAL/WS/10	± 0.000081 g @ 500g	NC-106	06/03/2025	NSTAR, Ahmedabad
Digital Weighing balance	0.001 to 5g	WEIGHTRONICS/ EIE/CAL/DWB/05	± 0.000005 g @ 5g	EIE/M/22002	02/01/2023	EIE Instruments Pvt. Ltd.

The Standards used are traceable to National / Internation standards

Calibrated By

Arvind Abhishek **Calibration Engineer** Corporate Office:

Calibration Laboratory:

B-14, Zaveri Industrial Estate, Opp. Shyam Villa, Singarva-Kathwada Road,

EIE/F/LAB/056.03 Issue Date 01/01/2022

Kathwada, Ahmedabad-382 430. Phone: (079) 6604 0660 • Fax: (079) 6604 0600

E-mail: Info@eieinstruments.com

Bhadresh Patel

Calibration Head

A-1301, BVR Ek, Opp. Hotel Inder Residency, Near Gujarat College, Ellisbridge, Ahmedabad-380 006. Phone: (079) 6621 1234 Website: www.eieinstruments.com

GST TIN No.: 24AABCE4018L1ZU I.T. PAN No. : AABCE 4018L

0813026598 Dt. 04/03/2014 IEC No. CIN No. : U29199GJ2004PTC045078







	CALIB	RATION CI	ERTIFICATE	
Land Asset Control	EIE/M/22521	ULR No:-	CC22222300000513F	Page No 2 of 2
Certificate No.:-	Job Card No:	Calibration Date	Recommended Due Date	Certificate Issue Date
SRF No:	222161	22/04/2022	21/04/2023	22/04/2022
EIE/22544	222101	22/01/2022		

Calibration Observation Table (Mechanical Calibration):-

Calibration	n Observation Table (Mechanical Cal	bration):-		
Sr. No.	Parameter		500	1000
- Cit itsi	Nominal Value(μl)	100	503.957	1004.073
-	*Mean Value(μl)	101.779		23.1
1	Water Temperature(°C)	23.2	23.2	4.073
2		1.779	3.957	4.070
3	Error(µl)		0.9	
4	Expanded Uncertainity(±µl)			

Remarks:

- (*) Indicaes average of five readings.
- The calibration reasults reported in this certificate are valid at the time of calibration.
- Suggested due date is given based on customer requirments.
- Volume measurement by implementing gravimetric method of the volumetric instruments as per ISO 8655-6 2002.
- The Volume has been rounded off as per IS 2:1960, wherever it is required.
- The reported expanded uncertainty of measurement is stated as the standard uncertainity of measurement multipliedby the coverage factor K = 2.78, which for nominal distribution corresponds to a coverage probability of approximately 95%.

Notes:

- This calibration certificate refers only to the particular item(S) submitted for calibration.
- Any hand written correction in the report invalidates the certificate.
- This certificate shall not be reproduced, except in full prior permission from EIE INSTRUMENTS PVT. LTD. .

Calibrated By

Arvind Abhishek Calibration Engineer Corporate Office:

EIE/F/LAB/056.03 Issue Date 01/01/2022

Approved B

Bhadresh Patel Calibration Head







(NABL Accredited Laboratory as per ISO/IEC 17025)

CALIBRATION CERTIFICATE						
Certificate No.:-	EIE/M/22520	ULR No:-	CC22222300000512F	Page No 1 of 2		
SRF No:	Job Card No:	Calibration Date	Recommended Due Date	Certificate Issue Date		
EIE/22544	222160	22/04/2022	21/04/2023	22/04/2022		

Customer Name & Address

SUNRISE PATHOLOGY LABORATORY

SHOP NO. 104, 1st FLOOR, SUN HEIGHT, SNEH PLAZA ROAD, CHANDKHEDA -

382424, AHMEDABAD, GUJARAT

Instrument received on

21/04/2022

Details of Unit Under Calibration

Micropipette Name of Instruments

Bio System

Model No ID No.

SP/INS/08

Make

20 to 200 µl

Accuracy

Range Resolution

Location

0.5 µl

Good

Condition on Receipt Calibration Location

Mass - Balance Calibration Laboratory

Referance Work Instruction Number

EIE/W/M/004

Environmental condition

Temperature - (23 ± 1.5) °C Humidity - (40 to 60) % RH

Standard Used :				10.5		
Nomenclature	Range	Make / ID No:	Uncertainty	Certificate No:	Calibration Due Date	Traceable By
Standard Weights E1 Class	1 mg to 500g	WEIGHTRONICS/ EIE/CAL/WS/10	± 0.000081 g @ 500g	NC-106	06/03/2025	NSTAR, Ahmedabad
Digital Weighing balance	0.001 to 5g	WEIGHTRONICS/ EIE/CAL/DWB/05	± 0.000005 g @ 5g	EIE/M/22002	02/01/2023	EIE Instruments Pvt. Ltd.

The Standards used are traceable to National / Internation standards

Calibrated By

Arvind Abhishek Calibration Engineer

Corporate Office:

EIE/F/LAB/056.03 Issue Date 01/01/2022

Calibration Laboratory:

B-14, Zaveri Industrial Estate, Opp. Shyam Villa, Singarva-Kathwada Road,

Kathwada, Ahmedabad-382 430. Phone: (079) 6604 0660 • Fax: (079) 6604 0600

E-mail:info@eieinstruments.com

Bhadresh Patel

Calibration Head

Approved B

A-1301, BVR Ek, Opp. Hotel Inder Residency. Near Gujarat College, Ellisbridge, Ahmedabad-380 006. Phone: (079) 6621 1234

Website: www.eieinstruments.com

GST TIN No.: 24AABCE4018L1ZU I.T. PAN No. : AABCE 4018L

: 0813026598 Dt. 04/03/2014 IEC No. CIN No. : U29199GJ2004PTC045078





(NABL Accredited Laboratory as per ISO/IEC 17025)

	CALIB	RATION C	ERTIFICATE	
Certificate No.:-	EIE/M/22520	ULR No:-	CC22222300000512F	Page No 2 of 2
SRF No:	Job Card No:	Calibration Date	Recommended Due Date	Certificate Issue Date
EIE/22544	222160	22/04/2022	21/04/2023	22/04/2022

Calibration Observation Table (Mechanical Calibration):-

Calibration	Observation Table (Wechanical Cal	ibration):-		
Sr. No.	Parameter		100.0	200.0
	Nominal Value(μΙ)	20.0	100.0	200.403
1	*Mean Value(µl)	20.344	100.469	
	Water Temperature(°C)	25.4	23.3	23.3
		0.344	0.469	0.403
3	Error(μl)	0,541	0.9	
4	Expanded Uncertainity(±µI)			

Remarks:

- (*) Indicaes average of five readings.
- The calibration reasults reported in this certificate are valid at the time of calibration.
- Suggested due date is given based on customer requirments.
- Volume measurement by implementing gravimetric method of the volumetric instruments as per ISO 8655-6 2002.
- The Volume has been rounded off as per IS 2:1960, wherever it is required.
- The reported expanded uncertainty of measurement is stated as the standard uncertainity of measurement multipliedby the coverage factor K = 2.78, which for nominal distribution corresponds to a coverage probability of approximately 95%.

Notes:

- This calibration certificate refers only to the particular item(S) submitted for calibration.
- Any hand written correction in the report invalidates the certificate.
- This certificate shall not be reproduced, except in full prior permission from EIE INSTRUMENTS PVT. LTD. .

Calibrated By

Arvind Abhishek Calibration Engineer

Corporate Office:

EIE/F/LAB/056.03 Issue Date 01/01/2022

Calibration Laboratory:

B-14, Zaveri Industrial Estate, Opp. Shyam Villa, Singarva-Kathwada Road,

Kathwada, Ahmedabad-382 430. Phone: (079) 6604 0660 • Fax: (079) 6604 0600

E-mail:info@eieinstruments.com

GST TIN No.: 24AABCE4018L1ZU I.T. PAN No. : AABCE 4018L

: 0813026598 Dt. 04/03/2014 IEC No. : U29199GJ2004PTC045078 CIN No.

Ahmedabad-380 006. Phone: (079) 6621 1234 Website: www.eieinstruments.com

A-1301, BVR Ek, Opp. Hotel Inder Residency,

Near Gujarat College, Ellisbridge,



Appreved B

Bhadresh Patel

Calibration Head



(NABL Accredited Laboratory as per ISO/IEC 17025)

	CALIB	RATION CI	ERTIFICATE	
Certificate No.:-	EIE/M/22519	ULR No:-	CC22222300000511F	Page No 1 of 2
SRF No:	Job Card No:	Calibration Date	Recommended Due Date	Certificate Issue Date
EIE/22544	222159	22/04/2022	21/04/2023	22/04/2022

Customer Name & Address

SUNRISE PATHOLOGY LABORATORY

SHOP NO. 104, 1st FLOOR, SUN HEIGHT, SNEH PLAZA ROAD, CHANDKHEDA -

382424, AHMEDABAD, GUJARAT

Instrument received on

21/04/2022

Details of Unit Under Calibration

Micropipette :

Model No

Name of Instruments

Durapet

ID No.

SP/INS/07

Make Range

5 to 50 µl

Accuracy

Resolution

Location

 0.5μ l

Condition on Receipt

Calibration Location

Mass - Balance Calibration Laboratory

Referance Work Instruction Number

EIE/W/M/004

Environmental condition

Temperature - (23 ± 1.5) °C Humidity - (40 to 60) % RH

Standard Used:						
Nomenclature	Range	Make / ID No:	Uncertainty	Certificate No:	Calibration Due Date	Traceable By
Standard Weights E1 Class	1 mg to 500g	WEIGHTRONICS/ EIE/CAL/WS/10	± 0.000081 g @ 500g	NC-106	06/03/2025	NSTAR, Ahmedabad
Digital Weighing balance	0.001 to 5g	WEIGHTRONICS/ EIE/CAL/DWB/05	± 0.000005 g @ 5g	EIE/M/22002	02/01/2023	EIE Instruments Pvt. Ltd.

The Standards used are traceable to National / Internation standards

Calibrated By

Calibration Engineer **Corporate Office:**

EIE/F/LAB/056.03 Issue Date 01/01/2022

Calibration Laboratory:

B-14, Zaveri Industrial Estate, Opp. Shyam Villa, Singarva-Kathwada Road, Kathwada, Ahmedabad-382 430.

Phone: (079) 6604 0660 • Fax: (079) 6604 0600 E-mail: info@eieinstruments.com

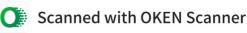
GST TIN No.: 24AABCE4018L1ZU I.T. PAN No. : AABCE 4018L

: 0813026598 Dt. 04/03/2014 IEC No. CIN No. : U29199GJ2004PTC045078

Arving Abhishek

A-1301, BVR Ek, Opp. Hotel Inder Residency, Near Gujarat College, Ellisbridge, Ahmedabad-380 006. Phone: (079) 6621 1234

Website: www.eieinstruments.com



Approved/By

Bhadresh Patel

Calibration Head



EİE İNSTRUMENTS PV



	CALIB	RATION CI	ERTIFICATE	
Certificate No.:-	EIE/M/22519	ULR No:-	CC222222300000511F	Page No 2 of 2
EIE/22544	Job Card No:	Calibration Date	Recommended Due Date	Certificate Issue Date
L1L122344	222159	22/04/2022	21/04/2023	22/04/2022

Calibration Observation Table (Mechanical Calibration):-

Sr. No.	Parameter	riddon).• .		A
	Nominal Value(μl)	5.0	25.0	50.0
1	*Mean Value(μΙ)	4.957	24.922	50.088
2	Water Temperature(°C)	23.3	23.4	23.4
3	Error(µI)	-0.043	-0.078	880.0
4	Expanded Uncertainity(±µI)	,	0.3	

Remarks:

- (*) Indicaes average of five readings.
- The calibration reasults reported in this certificate are valid at the time of calibration.
- Suggested due date is given based on customer requirments.
- Volume measurement by implementing gravimetric method of the volumetric instruments as per ISO 8655-6 2002.
- The Volume has been rounded off as per IS 2:1960, wherever it is required.
- The reported expanded uncertainty of measurement is stated as the standard uncertainity of measurement multipliedby the coverage factor K = 2.78, which for nominal distribution corresponds to a coverage probability of approximately 95%.

Notes:

- This calibration certificate refers only to the particular item(S) submitted for calibration.
- Any hand written correction in the report invalidates the certificate.
- This certificate shall not be reproduced, except in full prior permission from EIE INSTRUMENTS PVT. LTD. .

Calibrated By

Arvind Abhishek Calibration Engineer Corporate Office:

A-1301, BVR Ek, Opp. Hotel Inder Residency,

Near Gujarat College, Ellisbridge, Ahmedabad-380 006.

Phone: (079) 6621 1234

Website: www.eieinstruments.com



EIE/F/LAB/056.03 Issue Date 01/01/2022

Calibration Laboratory:

E-mail: info@eieinstruments.com

B-14, Zaveri Industrial Estate, Opp. Shyam Villa, Singarva-Kathwada Road, Kathwada, Ahmedabad-382 430. Phone: (079) 6604 0660 • Fax: (079) 6604 0600

GST TIN No.: 24AABCE4018L1ZU I.T. PAN No. : AABCE 4018L

IEC No. : 0813026598 Dt. 04/03/2014 CIN No. : U29199GJ2004PTC045078



Bhadresh Patel

Calibration Head