

# TECHNICAL RESOURCES

SALES, REPAIRS, AMC & FRANCHISE SERVICES OF ANALYTICAL, PRECISION, BIO-MEDICAL, BLOOD BANKING, IVF & HISTOPATHOLOGY LABORATORY EQUIPMENT.

A MSME Registered Unit, NSIC-CRISIL Rated SE 3C  
A NABL Accredited Laboratory

Tel. : 022-28927149  
Email : info@technical-resources.in  
technicalresources@gmail.com  
Handset : 9819103181  
Webpage : www.technical-resources.in



SERVICE CENTRE : OFFICE NO. 2, TONES PARADISE, OPP. NEW PEDESTRAIN BRIDGE, NAVAGAON, DAHISAR (W), MUMBAI - 400 068.

## Calibration Certificate

<b>Calibration field:</b>	Thermal-Temperature	<b>NABL Accreditation no:</b>	CC-2112
<b>Accreditation valid upto:</b>	11.04.2022	<b>Certificate no:</b>	CC21122100000650
<b>Requisition no:</b>	Sep2021-IW-239	<b>Date of calibration:</b>	15.09.2021
<b>Calibration done at</b>	At Lab	<b>Agreed Next Calib On:</b>	14.09.2022
<b>Received On:</b>	14.09.2021	<b>Page no:</b>	1 of 2

<b>Customer details:</b>		<b>Reference used:</b>	
<b>Name:</b>	SRL Diagnostic, Dr Avinash Phadke Lab	<b>Master</b>	Universal Calibrator UC12 with RTD Sensor
<b>Address</b>	Sumati, Ground Floor, Behind Saraswat Co-op-Bank, M.G.Road, Panch Rasta , Mulund (W),Mumbai-400080	<b>Master Ser. No.</b>	20030512/202 ID NO: TM031/TM015
		<b>Traceable Certificate</b>	M-201016-12-1/A
		<b>Valid upto</b>	20.10.2021

<b>Details of DUC:</b>		<b>Condition of item:</b> Good	
<b>Equipment:</b>	Digital Thermometer	<b>Range °C:</b>	-50 to 300
<b>Make:</b>	ACETEQ	<b>Accuracy ±°C :</b>	Not Specified
<b>Model:</b>	ST-9283B	<b>Resolution °C:</b>	0.1
<b>Serial No</b>	Not Specified	<b>Length of sensor mm:</b>	110
<b>ID No:</b>	2	<b>Dia of sensor mm:</b>	5
<b>Location:</b>	Lab	<b>Depth of sensor mm:</b>	50

<b>Ambient Temp(°C):</b>	25.2	<b>Humidity (%Rh):</b>	56
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### Remark:

1. Calibration procedure used: LAB SOP/04
2. The Reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor K=2, providing a level of confidence of approx. 95%.
3. The observations reported represent values at the time of measurement. They do not convey any long term stability information.
4. The standards maintained are traceable to National / International Standards through accredited laboratories.
5. Sticker affixed on the unit

### Note:

1. This certificate refer only to particular instrument submitted for calibration.
2. This certificate shall not be reproduced.
3. Technical Resources shall not be responsible for any change in calibration date and performance specification on account of malfunctioning of the instrument due to damage caused to it after handing over it to the customer.

  
Authorized signatory  
Sr Technical Manager  
N Srinivas Rao

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Tel: 022-28427145  
Email: HR@technicalresources.in  
technicalresources@gmail.com  
08101023187  
Website: www.technical-resources.in



SERVICE CENTRE : OFFICE NO. 2, TONES PARADISE, OPP NEW PEDESTRIAN BRIDGE, NAVAGAONI, DAHISAR (W), MUMBAI - 400 064

## Calibration data:

Equipment:	Digital Thermometer	Certificate/ULR no:	CC2112210000000650
Serial no:	Not Specified	Date of calibration:	15.09.2021
ID No:	2	Page	2 of 2

## RUN DETAILS

Set Temp. Display °C	Avg. Reading on DUC Display °C	Avg. Reading on Ref. Display °C	Deviation in (+/-) °C	Expanded Uncertainty in (+/-) °C
-20.0	-19.0	-20.04	-1.06	0.600
5.0	4.4	5.15	0.79	0.600
37.0	36.6	37.20	0.58	0.600

END OF RESULT

21.09.2021

Certificate Issue Date:

Checked By: *Dilip*



Authorised Signatory  
Sr Technical Manager  
N Srinivas Rao

F-7812

# TECHNICAL RESOURCES

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SERVICE CENTRE : OFFICE NO. 2, TONES PARADISE, OPP. NEW PEDESTRAIN BRIDGE, NAVAGAON, DAHISAR (W), MUMBAI - 400 068.

## Calibration Certificate

<b>Calibration field:</b> Thermal-Temperature	<b>NABL Accreditation no:</b> CC-2112
<b>Accreditation valid upto:</b> 11.04.2022	<b>Certificate no:</b> CC21122100000649
<b>Requisition no:</b> Sep2021-IW-239	<b>Date of calibration:</b> 15.09.2021
<b>Calibration done at:</b> At Lab	<b>Agreed Next Calib On:</b> 14.09.2022
<b>Received On:</b> 14.09.2021	<b>Page no:</b> 1 of 2

<b>Customer details:</b>	<b>Reference used:</b>
<b>Name:</b> SRL Diagnostic, Dr Avinash Phadke Lab	<b>Master:</b> Universal Calibrator UC12 with RTD Sensor
<b>Address:</b> Sumati, Ground Floor, Behind Saraswat Co-op-Bank, M.G Road, Panch Rasta, Mulund (W), Mumbai-400080	<b>Master Ser. No.</b> 20030512/202 <b>ID NO:</b> TM031/TM015
	<b>Traceable Certificate</b> M-201016-12-1/A
	<b>Valid upto</b> 20.10.2021

<b>Details of DUC:</b>	<b>Condition of Item:</b> Good
<b>Equipment:</b> Digital Thermometer	<b>Range °C:</b> -50 to 300
<b>Make:</b> ACETEQ	<b>Accuracy ±°C :</b> Not Specified
<b>Model:</b> ST-9283B	<b>Resolution °C:</b> 0.1
<b>Serial No</b> Not Specified	<b>Length of sensor mm:</b> 110
<b>ID No:</b> 1	<b>Dia of sensor mm:</b> 5
<b>Location:</b> Lab	<b>Depth of sensor mm:</b> 50

<b>Ambient Temp(°C):</b> 25.2	<b>Humidity (%Rh):</b> 56
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### Remark:

1. Calibration procedure used: LAB SOP/04
2. The Reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor K=2, providing a level of confidence of approx. 95%.
3. The observations reported represent values at the time of measurement. They donot convey any long term stability information.
4. The standards maintained are traceable to National / International Standards through accredited laboratories.
5. Sticker affixed on the unit

### Note:

1. This certificate refer only to particular instrument submitted for calibration.
2. This certificate shall not be reproduced.
3. Technical Resources shall not be responsible for any change in calibration date and performance specification on account of malfunctioning of the instrument due to damage caused to it after handing over it to the customer.

  
Authorised signatory  
Sr Technical Manager  
N Srinivas Rao

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## Calibration data:

Equipment:	Digital Thermometer	Certificate/ULR no:	CC211221000000649
Serial no:	Not Specified	Date of calibration:	15.09.2021
ID No:	1	Page	2 of 2

## RUN DETAILS

Set Temp. Display °C	Avg. Reading on DUC Display °C	Avg. Reading on Ref. Display °C	Deviation in (+/-) °C	Expanded Uncertainty in (+/-) °C
-20.0	-21.0	-20.04	0.94	0.600
5.0	6.4	5.15	-1.25	0.600
37.0	37.8	37.20	-0.62	0.600

END OF RESULT

21.09.2021  
Certificate Issue Date:

*Dilip*  
Checked By

Authorised Signatory  
Sr Technical Manager  
N Srinivas Rao

F-7.8.1.2



# TECHNOCAL

ACCREDITATION FOR MECHANICAL, THERMAL & ELECTRO - TECHNICAL CALIBRATION LABORATORY



CC-2350

## CALIBRATION CERTIFICATE

### DISCIPLINE - THERMAL

**1. CLIENT'S ADDRESS :-**  
**SRL Dr Avinash Phadke Pvt. Ltd**  
 Ground floor, Sunaiti, Behind Saraswai Co-op Bank  
 Mulund-west, Mumbai-400080

CRF No. :- CAL-2203-015  
 Page No. :- 1 of 1  
 ULR No. :- CC255022000000753F  
 Certificate No. :- SRL-CAL/2203-15-003  
 Date of Received / Mode :- 25/03/2022 / By Hand

**Environmental Condition**  
 Ambient Temp. :- 27.3 °C  
 Relative Humidity :- 55 %RH  
 Location of calibration :- AI Lab  
 Condition of Item :- OK

Reference Challen no. :- 25/03/2022  
 Date of Calibration :- 29/03/2022  
 Date of issue certificate :- 29/03/2022  
 Next Calibration Due On :- 24/03/2023  
 Calibration method No. :- TECH-TH-VI-03

**2. Description of Item ( UUC )**

Name	- Thermometer
Id No	- Mtd-17
Make & Model	- Acelec & ST-9283B
Type	- Digital
Accuracy	- ± 2 °C
Range	- -50 to 300 °C
L C	- 0.1 °C
Location	- Lab

**3. Detail of Equipment used for calibration**

Name	- RTD Sensor With DMM
Make	- Gwinstek & Tempsons
Certificate No.	- C21111499/T/01
Certified By	- Aasulocal Solutions PVT. LTD.
ID/Sr. No.	- TECHMMTTS-001
Calibration Validity	- 07/11/2022

**4. Calibration Results**

Calibration Points	Standard Reading	UUC Reading	Error in °C	Expanded Uncertainty in ± °C
-20 °C	-20.125 °C	-20.3 °C	-0.175 °C	1.03
5 °C	5.023 °C	5.3 °C	0.277 °C	1.03
37 °C	37.156 °C	37.5 °C	0.344 °C	1.03
100 °C	100.156 °C	100.6 °C	0.444 °C	1.04

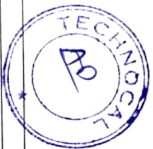
\* The readings of temperature represents the mean of five readings.  
 Note:

- 1) The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor k=2, which corresponds to a coverage probability of approximately 95% for normal distribution
- 2) This certificate refers only to the particular item submitted for calibration. UUC stands for Unit Under Calibration.
- 3) This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from the Technical Manager of "Technocal, Mohopada"
- 4) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement
- 5) If equipment used for calibration are calibrated & traceable to national & International standard

Calibrated By

Calibration Engineer  
 Name: Apoorva Dalvi

TF-39, REV:00



Approved By

Technical Manager  
 Name: Santosh Sardar

End of page

# TECHNOCAL

ACCREDITATION FOR MECHANICAL, THERMAL & ELECTRO - TECHNICAL CALIBRATION LABORATORY



CC-2550

CALIBRATION CERTIFICATE				
DISCIPLINE - THERMAL				
<b>1. CLIENT'S ADDRESS :-</b> SRL Dr Avinash Phadke pvt. Ltd Ground floor, Sumati, Behind Saraswat Co-op Bank Mulund-west, Mumbai-400080.		CRF No.	:- CAL-2203-015	
		Page No.	:- 1 of 1	
		ULR No	:- CC255022000000754F	
		Certificate No.	:- SRL-CAL/2203-15-004	
		Date of Received / Mode	:- 25/03/2022 / By Hand	
<b>Enviornmental Condition</b>		Reference Challen no	:- Letter	
Ambient Temp.	:- 27.0 °C	Date of Calibration	:- 25/03/2022	
Relative Humidity	:- 56 %RH	Date of issue certificate	:- 29/03/2022	
Location of calibration	:- At Lab	Next Calibration Due On	:- 24/03/2023	
Condition of Item	:- OK	Calibration method No.	:- TECH-TH-WI-03	
<b>2. Description of Item ( UUC )</b>				
Name	:- Thermometer	Range	:- -50 to 300 °C	
Id No	:- Muld-18	L.C.	:- 0.1 °C	
Make & Model	:- Aceleq & ST-9283B	Location	:- Lab	
Type	:- Digital			
Accuracy	:- ± 2 °C			
<b>3. Detail of Equipment used for calibration</b>				
Name	:- RTD Sensor With DMM			
Make	:- Gwinstek & Tempsens			
Certificate No.	:- C21111499/T/01			
Certified By	:- Aautocal Solutions PVT. LTD.			
ID/Sr. No.	:- TECH/MMTS-001			
Calibration Validity	:- 07/11/2022			
<b>4. Calibration Results :-</b>				
Calibration Points °C	Standard Reading °C	UUC Reading °C	Error in °C	Expanded Uncertainty in ± °C
-20	-20.086	-20.2	-0.114	1.03
5	5.123	5.2	0.077	1.03
37	37.056	37.3	0.244	1.03
100	100.113	100.3	0.187	1.04
* The readings of temperature represents the mean of five readings.				
Note:				
1) The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor k=2, which corresponds to a coverage probability of approximately 95% for normal distribution				
2) This certificate refers only to the particular item submitted for calibration. UUC stands for Unit Under Calibration				
3) This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from the Technical Manager of "Technocal , Mohopada".				
4) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement				
5) Equipment Used for calibration are calibrated & traceable to national & International standard				
Calibrated By		Approved By		
Calibration Engineer Name : Apoorva Dalvi		Technical Manager Name Santosh Sardar		
TF-39, REV:00				End of page

# TECHNOCAL

ACCREDITATION FOR MECHANICAL, THERMAL & ELECTRO - TECHNICAL CALIBRATION LABORATORY



CC-2550

## CALIBRATION CERTIFICATE

### DISCIPLINE - THERMAL

<b>1. CLIENT'S ADDRESS :-</b> SRL Dr Avinash Phadke Pvt. Ltd Ground floor, Sumati, Behind Saraswat Co-op Bank Mulund-west, Mumbai-400080	CRF No.	- CAL-2203-015
	Page No.	- 1 of 1
	ULR No	- CC255022000000755F
	Certificate No.	- SRL-CAL/2203-15-005
	Date of Received / Mode	- 25/03/2022 / By Hand
<b>Environmental Condition</b>	Reference Challen no	- Letter
	Date of Calibration	- 25/03/2022
	Date of issue certificate	- 29/03/2022
	Next Calibration Due On	- 24/03/2023
	Calibration method No.	- TECH-TH-WI-03
Ambient Temp	- 27.2 °C	
Relative Humidity	- 52 %RH	
Location of calibration	- At Lab	
Condition of Item	- OK	

### 2. Description of Item ( UUC )

Name	- Thermometer	Range	- -50 to 300 °C
Id No	- Muld-19	L.C.	- 0.1 °C
Make & Model	- Aceteq & ST-9283B	Location	- Lab
Type	- Digital		
Accuracy	- $\pm 2$ °C		

### 3. Detail of Equipment used for calibration

Name	- RTD Sensor With DMM
Make	- Gwinstek & Tempens
Certificate No.	- C21111499/T/01
Certified By	- Aautocal Solutions PVT. LTD.
ID/Sr. No.	- TECH/MMTS-001
Calibration Validity	- 07/11/2022

### 4. Calibration Results

Calibration Points °C	Standard Reading °C	UUC Reading °C	Error in °C	Expanded Uncertainty in $\pm$ °C
-20	-20.012	-20.3	-0.288	1.03
5	5.056	5.3	0.244	1.03
37	37.125	37.5	0.375	1.03
100	100.135	100.5	0.365	1.04

\*The readings of temperature represents the mean of five readings.

Note:

- The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor  $k=2$  which corresponds to a coverage probability of approximately 95% for normal distribution
- This certificate refers only to the particular item submitted for calibration. UUC stands for Unit Under Calibration
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- The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement
- Equipment Used for calibration are calibrated & traceable to national & International standard

Calibrated By

Calibration Engineer

Name : Apoorva Dalvi



Approved By

Technical Manager

Name Santosh Sardar

TF-39, REV:00

End of page