

## Calibration Certificate

UNIT DESCRIPTION: LABORATORY CENTRIFUGE

MODEL NO.: R - 8C PLUS

SR. NO.: ZHKN - 42199

CERTIFICATE NO.: RMTC - 0157/22

NAME OF CUSTOMER: Synergen Diagnostics

ADDRESS OF CUSTOMER:

CALIBRATION DATE: 17.11.2021

CAL. VALIDITY: 16.11.2022

**DETAILS OF EQUIPMENT USED FOR CALIBRATION**

NOTE: Tick  mark where as applicable.

Digital Lab Thermometer

LCD Tachometer

Digital Stop Watch

Auto Ranging R.P.M. Meter

Digital Strobe

Weight Set

Digital Temperature Indicator

Sr. No.	Description	Certified By	Instrument Id. No.	Certificate No.	Calibration Date	Validity
01	Digi. Strobe	Autocal	MSM 01	C20121291/P/01	22.12.2020	21.12.2021

**OBSERVATIONS:**

Sr. No.	Instrument Speed Displayed (RPM)	Speed Reading on Strobe Meter (RPM)	Diff. In Actual and Strobe Meter RPM	Remarks
01	4500	4540	40	OK
02	3000	3020	20	OK
03	1000	1005	05	OK

**NOTE: 1. Calibration Traceable to national standards.**

**2. Overall deviation is within specified accuracy.**

**3. Result is related only to the item calibrated.**

**4. Maximum tolerance permissible is  $\pm 1^\circ\text{C}$  &  $\pm 5^\circ\text{C}$  whichever is applicable and RPM  $\pm 2\%$  FSD and  $\pm 5\text{gm}$  to set weight.**

REMARKS: ACCEPTED

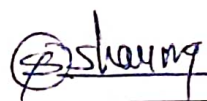

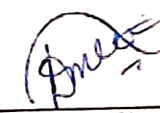


CALIBRATED BY: VIJAY KADAM

APPROVED BY: Manager Q. A.

**CALIBRATION CERTIFICATE**

**MECHANICAL DISCIPLINE**

Certificate No.	C20121291/P/01	Issue Date	05/01/2021			
Date of Calibration	22/12/2020	Next Recommended Calibration Date	21/12/2021			
Service Request Form No.	C20121291					
Calibrated for	REMI ELEKTROTECHNIK LTD. (Instruments division) Building 'B', Survey No. 65/1, Naikpada, Waliv, Vasai (E) Palghar Maharashtra 401208 India					
Date of Receipt of Instrument	19/12/2020					
Condition of Instrument on Receipt	Working	Calibrated at	Lab			
Environmental Conditions	Temperature:	23 ± 1.5°C	Relative Humidity 50 ± 10 % RH			
<b>Details of Unit Under Calibration (UUC)</b>						
Instrument	Stroboscope	Equipment:	NA			
Make	Test Technics	Equipment ID.	NA			
Model	TT - 5100	Department	QC			
Sr. No.	1551	Section	NA			
Tag/ID No.	MSM-01	Location	NA			
Procedure No.	WI/ASPL/CAL/PR/07					
	Resolution/Least Count	Accuracy/Acceptance Criteria				
150 to 20000 RPM	1 RPM	Not Specified				
<b>Details of Standard(s) Used for Calibration (Traceable to National / International Standards)</b>						
Description	Make / Model	Serial No./ ID No.	Traceability (Certificate No.)	Valid upto		
Digital Tachometer	Monarch / PLT200	1856742 STD/P/PR/07	Hi Tech Calibration Sevices, Chennai (HT/CC/200610-10/001)	17/06/2021		
<b>Measurement Result</b>						
<b>Group: Acceleration, Speed &amp; Acoustics</b>		Unit of Measurement : RPM				
No.	Reading On UUC	Reading On Standard	Error	(±) Expanded Uncertainty		
1	150	150.02	-0.02	0.89		
2	500	500.08	-0.08	0.89		
3	1000	1000.6	-0.6	0.90		
4	7000	7002.3	-2.3	2.62		
5	20000	20003	-3	3.93		
<b>Remarks</b>						
1. The reported expanded uncertainty of measurement is stated as a standard uncertainty of measurement multiplied by coverage factor "k = 2" such that the coverage probability corresponds to approximately 95% confidence level.						
2. The Measured Values Mentioned are the average of 5 readings						
3. Measured readings have been mentioned.						
<b>Notes</b>						
1. This certificate refers only to the particular item calibrated at site / laboratory.						
2. The calibration results reported are valid at the time of and under the stated conditions of measurement.						
3. Any correction in this certificate invalidates this certificate						
4. This certificate shall not be reproduced except, in full without the written approval from the Laboratory.						
5. Calibration of UUC done by any accredited laboratory is meant for scientific and industrial purpose only however, if used for commercial trading additional recognition / approval shall be compiled as a required by department of legal metrology regulatory bodies, etc.						
 Calibrated By Somesh Sharma Calibration Engineer					 Authorised Signatory Jyotindra Mehta Senior Manager	
***** End of Certificate *****						



## CALIBRATION CERTIFICATE

Certificate No.	HT/CC/200610-10/001	ULR No.	ULR - CC215120000012916F
<b>CUSTOMER DETAILS</b>		<b>DEVICE UNDER CALIBRATION DETAILS</b>	
Name	M/s. Autocal Solutions Pvt. Ltd.	Description	Digital Tachometer
Address	Unit - 4, Ruby Industrial Estate PCS Ltd., Naykhan, Vasal (East), Palaghar, Maharashtra - 401 210.	Make	Monarch Model PLT 200
		Mode	Non - Contact
Job No.	200610-10	Range	5 to 200000 RPM
Job Date	10-Jun-2020	Least Count	0.001 / 0.01 / 0.1 / 1 RPM
Issue Date	18-Jun-2020	Accuracy	± 0.01 % Rdg + 1 Digit
Received Condition of DUC	Satisfactory	Serial No.	1856742
<b>ENVIRONMENTAL CONDITION</b>		Identification	STD/P/PR/07
Temperature	25 °C ± 2 °C	Calibration On	18-Jun-2020
Humidity	30 % RH to 75 % RH	Due On	17-Jun-2021
Discipline & Group	Mechanical Calibration & Acceleration, Speed and Acoustics		
Calibration Procedure	HT / WI / M / AS (Section 01) & SANAS TR 45-02 by Comparison Method		
<b>STANDARD DETAILS</b>			
Description	Digital Tachometer		
Identification No.	M/AS/TACHO/05		
Certificate No.	HT/2739/001		
Valid Till	15-Sept-2020		

## CALIBRATION RESULT

Mode : Non - Contact

DUC Reading in RPM	Standard Reading in RPM	Error in RPM	Expanded Uncertainty in ± RPM
10.001	10.0	0.001	0.39
60.005	60.0	0.005	0.38
100.01	100.0	0.01	0.38
1000.4	1000.6	-0.2	0.68
10001	10001.3	-0.3	2.42
30003	30003.7	0.7	3.13
50004	50004.5	-0.5	3.89
89997	89995.7	1.3	4.16

### Remarks:

- The Calibration is performed at Permanent Facility.
- The Calibration Certificate is valid for scientific & industrial purpose only.
- The Expanded uncertainty is expressed at 95.45 % confidence level with coverage factor k=2.

Checked By

D. LAKSHMAN CALIBRATION ENGINEER  
HT/PT/18/01

**CERTIFIED TRUE COPY**  
**AUTOCAL SOLUTIONS PVT. LTD.**

End of Certificate

Approved By  
R. NARAYANAN - TECHNICAL MANAGER

Page 1 of 1

Authorised Signatory



# AUTOCAL SYSTEMS

Calibration of Biomedical, QA of Radiology, Thermal, Mechanical, Electrotechnical, Mass, Volume, Weights, Mapping and Validation Testing Services of Laminar Air Flow, Biosafety Cabinet, OT Validation, AHU and Calibration Facility in Lab / Onsite.



CALIBRATION LAB

## CALIBRATION CERTIFICATE

<b>1. CUSTOMER</b> :- <b>SYNERGEN DIAGNOSTICS</b> UNIT NO.-105, SAI CHAMBERS,WAKADEWADI, SHIVAJINAGAR, PUNE-411003. Ambient Temp. :- (25 ± 4)°C RH :- < 70% Location of calibration :- In Lab Condition of Item :- OK	Page No. :- 1 of 1 Date of Receipt :- 7-4-2022 Service Request No. :- --- Certificate No. :- <b>TM-02</b> Date of Calibration :- 7-4-2022 Next Calibration Due On :- 6-Apr-23 Calibration method No. :- ACS/CM-202
--	--

<b>2. Description of Item</b>	
Name :- REFRIGERATOR THERMOMETER-02 ID. No. :- SD/IN/RF/T-02 Make :- OMRON Type :- DIGITAL Sr No :- NA	Range :- -50 TO 300 °C Resolution :- 0.1 °C Specified Accuracy :- 1 Location :- <b>PATHOLOGY LAB</b>

<b>3.Detail of Equipment used for calibration</b>	
Name :- Temp Ind With RTD Sensor Make/I.D No. :- Masibus/ACS-EQP-05 Certificate No. :- NI/2110/031/001 Certified By :- Nishitronics Calibration Validity :- 12-Oct-22	

<b>4.Calibration Results</b> :-				
Calibration Points °C	Standard Reading °C	UUC Reading °C	Error in °C	Expanded Uncertainty in ±°C
-30.0	-30.2	-30.1	0.1	0.7
-10.0	-10.3	-10.1	0.2	0.7
0	0.0	0.0	0.0	0.7
100	99.8	99.6	-0.2	0.7
200	199.7	200.3	0.6	0.7

**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 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) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
- 4) Calibration point were selected as per customer specifications and Calibration report traceble to National or International Standard.
- 5) 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 "Autocal Systems,Pune"

Calibrated By:  
  
Calibration Engineer  
(Mr Deepak Kumar)

Approved By:  
  
Technical Manager  
(Mr. Ankush Bagde)



\*\*\*Seal Of Certificate\*\*\*

BIO CERTIFICATE

83/526, Near D. Y. Patil Engg. College, Sant Tukaram Nagar, Pimpri, Pune - 411018.

© 09822136161 / 09975706701 / 07722092715 autocalsystemsmed@gmail.com / autocalsystems@gmail.com

www.autocalsystems.com



CC-2294



# Nishitronics Instrumentation

► Service Engineers  
► Calibration Services in Industrial Process Control  
*We work for Customers Satisfaction*

## CALIBRATION CERTIFICATE

<b>CUSTOMER :-</b> AUTOCAL SYSTEMS 83/526, Near D.Y. Patil Engg. College, Sant Tukaram Nagar, Pimpri, Pune - 411018.	Page No - 1 of 1 Discipline - Thermal Calibration ULR No - ULR-CC229421000004703F Certificate No - NI/2110/031/001 Date of issue - 13/10/2021 Date of receipt - 12/10/2021 Date of calibration - 13/10/2021 Cal Req No. - NI/2110/031/001 Next Due Date - 12/10/2022 Parameter - Temperature Calibration method no. - NI / CP / T / 01
Amb. Temp :- 25 ± 2 °C Rh. :- 45 to 75 %RH Location of calibration :- LAB Characteristic and Condition of items :- OK	

### Details of Items

Name :- Digital Temp. Indi. With RTD sensor Make :- Masibus Model :- 409 ID No. :- ACS-EQP-05 Sr No. :- --	Range :- -30 to 300 °C Type :- PT-100 L.C. :- 0.1 °C Accuracy :- ± 0.50 °C
--	---

### Details of Equipment used for Calibration

Name :- SSPRT WITH INDICATOR Calibrated by :- Godrej & Boyce Mfg. Co. Ltd Certificate No. :- M-200608-3-1 Validity :- 07/06/2022
---

## OBSERVATION

Cal. Point °C	Std. Reading °C	UUC Reading °C	Error In °C	Expanded Uncertainty
-30	-30.177	-30.0		
0	0.198	0.0	0.18	± 0.06 °C
25	25.127	24.9	-0.20	± 0.06 °C
50	49.949	49.7	-0.23	± 0.06 °C
100	99.929	99.6	-0.25	± 0.06 °C
200	199.888	199.5	-0.33	± 0.1 °C
300	299.831	299.4	-0.39	± 0.1 °C
			-0.43	± 0.1 °C

The reported measurement uncertainty is estimated at a level of confidence of approximately 95 % with a coverage factor k of 2.

### Remarks :-

- 1) Result are related only to the item calibrated.
- 2) This certificate refers only to the particular items submitted for calibration.
- 3) This certificate shall not be reproduced except in full without our prior permission in writing.
- 4) The calibration results reported in this particular certificate are valid at the time of an under stated condition of measurement.
- 5) Standard used for calibration were traceable to National / International standard.
- 6) Readings given above are as on received condition of an instrument.
- 7) Immersion Depth of UUC was 90 mm in Polyscience Liquid Bath.
- 8) Immersion Depth of UUC was 90 mm in CALSYS 250 Oil Bath.
- 9) Length of Sensor = 300 mm.
- 10) Diameter of Sensor = 6 mm.

Calibrated by

( T.A. Chougule )  
( Technical Assistant )  
Form No. : NI/F17.8/T/01  
Issue No : 03

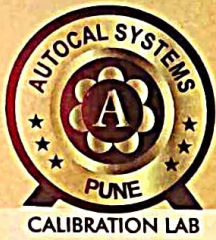


Form Rev. No. : 0

Authorized Signatory

( V.B. Hingmire ) / ( S.B. Hingmire )  
( Technical Manager )

Effective Form Date: 20/11/2019  
Issue Date : 20/11/2019



# AUTOCAL SYSTEMS

Calibration of Biomedical, QA of Radiology, Thermal, Mechanical, Electrotechnical, Mass, Volume, Weights, Mapping and Validation Testing Services of Laminar Air Flow, Biosafety Cabinet, OT Validation, AHU and Calibration Facility in Lab / Onsite.



## CALIBRATION CERTIFICATE

**1. CUSTOMER :-**  
**SYNERGEN DIAGNOSTICS**  
UNIT NO.-105, SAI CHAMBERS,WAKADEWADI,  
SHIVAJINAGAR, PUNE-411003.  
Ambient Temp. :- (25 ± 4)°C  
RH :- < 70%  
Location of calibration :- In Lab  
Condition of Item :- OK

Page No. :- 1 of 1  
Date of Receipt :- 7-4-2022  
Service Request No. :- ---  
Certificate No. :- **TM-01**  
Date of Calibration :- 7-4-2022  
Next Calibration Due On :- 6-Apr-23  
Calibration method No. :- ACS/CM-202

### 2. Description of Item

Name :- **REFRIGERATOR THERMOMETER-01** Range :- -50 TO 300 °C  
ID. No. :- SD/IN/RF/T-01 Resolution :- 0.1 °C  
Make :- MULTI STEM Specified Accuracy :- 1  
Type :- DIGITAL Location :- **PATHOLOGY LAB**  
Sr No :- NA

### 3.Detail of Equipment used for calibration

Name :- Temp Ind With RTD Sensor  
Make/I.D No. :- Masibus/ACS-EQP-05  
Certificate No. :- NI/2110/031/001  
Certified By :- Nishitronics  
Calibration Validity :- 12-Oct-22

### 4.Calibration Results :-

Calibration Points °C	Standard Reading °C	UUC Reading °C	Error in °C	Expanded Uncertainty in ±°C
-30	-30.1	-29.9	0.2	0.7
-10	-10.2	-10.3	-0.1	0.7
0	0.0	0.0	0.0	0.7
100	100.2	100.4	0.2	0.7
200	200.3	200.6	0.3	0.7

#### 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 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) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
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- 5) 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 "Autocal Systems,Pune"

Calibrated By:

Calibration Engineer  
(Mr Deepak Kumar)

Approved By:

Technical Manager  
(Mr. Ankush Bagde)

\*\*\* End of Certificate \*\*\*





CC-2294



# Nishitronics Instrumentation

► Service Engineers  
► Calibration Services in Industrial Process Control  
*We work for Customers Satisfaction*

## CALIBRATION CERTIFICATE

<b>CUSTOMER</b> :- AUTOCAL SYSTEMS 83/526, Near D.Y.Patil Engg. College, Sant Tukaram Nagar, Pimpri, Pune - 411018.	Page No :- 1 of 1 Discipline :- Thermal Calibration ULR No :- ULR-CC229421000004703F Certificate No :- NI/2110/031/001 Date of issue :- 13/10/2021 Date of receipt :- 12/10/2021 Date of calibration :- 13/10/2021 Cal Req No. :- NI/2110/031/001 Next Due Date :- 12/10/2022 Parameter :- Temperature Calibration method no. :- NI / CP / T / 01
Amb. Temp :- $25 \pm 2$ °C Rh. :- 45 to 75 %RH Location of calibration :- LAB Characteristic and :- OK Condition of items :-	

### Details of Items

Name :- Digital Temp. Indi. With RTD sensor	Range :- -30 to 300 °C
Make :- Masibus	Type :- PT-100
Model :- 409	L.C. :- 0.1 °C
ID No. :- ACS-EQP-05	Accuracy :- $\pm 0.50$ °C
Sr No. :- --	

### Details of Equipment used for Calibration

Name :- SSPRT WITH INDICATOR
Calibrated by :- Godrej & Boyce Mfg. Co. Ltd
Certificate No. :- M-200608-3-1
Validity :- 07/06/2022

### OBSERVATION

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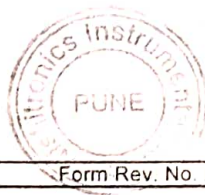
The reported measurement uncertainty is estimated at a level of confidence of approximately 95 % with a coverage factor k of 2.

### Remarks :-

- 1) Result are related only to the item calibrated.
- 2) This certificate refers only to the particular items submitted for calibration
- 3) This certificate shall not be reproduced except in full without our prior permission in writing.
- 4) The calibration results reported in this particular certificate are valid at the time of an under stated condition of measurement.
- 5) Standard used for calibration were traceable to National / International standard
- 6) Readings given above are as on received condition of an instrument
- 7) Immersion Depth of UUC was 90 mm in Polyscience Liquid Bath.
- 8) Immersion Depth of UUC was 90 mm in CALSYS 250 Oil Bath.
- 9) Length of Sensor = 300 mm.
- 10) Diameter of Sensor = 6 mm.

Calibrated by

( T A Chougule )  
( Technical Assistant )



Authorized Signatory

( V B Hingmire ) / ( S B. Hingmire )  
( Technical Manager )

Form No. NI/F/7.8/T/01

Form Rev. No. 0

Effective Form Date: 20/11/2019

Issue No : 03

Issue Date : 20/11/2019



### CALIBRATION CERTIFICATE

Certificate No. :- 2122/0131/05 -06	Page No. :- 1 of 2
Date of Calibration :- 31-Jan-2022	Calibration Due Date :- 30-Jan-2023
1.Customer Name & Address : Synergen Diagnostics Unit No.105,Sai Chambers, Wakadewadi,Shivajinagar,Pune-411003.	SRF No. :- 2122/0131/05 Date of Received :- 31-Jan-2022 Cal. Cert. Issue Date :- 2-Feb-2022 Condition of UUC :- OK Location of calibration :- In Lab Calibration Procedure No. :- MTS/VM/WI-01

2.Environmental Conditions:	Temperature: 21.2 °C	Relative Humidity: 52 % RH
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3. Description of UUC			
Name :- Micropipette	Range :- 5 to 50	µL	
Make :- ERBA	L.C. :- 0.5	µL	
I.D No. :- SD/PL/NK480222-01	Model/Sr.No. :- -/NK480222-01		
Type :- Analog	Location :- BIOCHEMISTRY		

4. Reference Standards used for calibration:			
Name :- Digital Weighing Balance	4- Wire RTD Sensor With Indicator		
Make :- Saffron	Tempsens		
I.D No./Sr. No. :- MTS/WB-04 / M21090500	MTS/TIS-01/867,0042		
Certificate No. :- NI/MTS/011021/001	NI/2106/026/005		
Calibration Validity :- 30-Sep-2022	13-06-2022		
Certified By :- Nishitronics	Nishitronics		
Range/Uncertainty :- As Per Certificate	-30 to 300 Deg C./(+/-) 0.09 Deg C.		

5. Calibration Results							
S. No.	Cal Point		Cal Point		Cal Point		
	5 µl		25 µl		50 µl		
	Mass (mg)	Volume (µl)	Mass (mg)	Volume (µl)	Mass (mg)	Volume (µl)	
1	4.98447	4.99942	24.99910	25.07410	49.71723	49.86638	
2	4.93513	4.94994	25.23316	25.30886	49.82836	49.97785	
3	4.99914	5.01414	24.45786	24.53123	49.74568	49.89492	
4	4.84953	4.86408	24.77653	24.85086	49.61142	49.76025	
5	4.94756	4.96240	24.50514	24.57866	49.91425	50.06399	
6	4.85486	4.86942	24.47896	24.55240	49.61452	49.76336	
7	4.97562	4.99055	24.73458	24.80878	49.86970	50.01931	
8	4.99741	5.01240	25.12360	25.19897	49.92351	50.07328	
9	4.99123	5.00620	25.01350	25.08854	49.71530	49.86445	
10	4.93412	4.94892	25.00315	25.07816	49.87620	50.02583	
Mean	4.94691	4.96175	24.83256	24.90706	49.78162	49.93096	
Standard Devi.	0.055514107	0.055680649	0.282868364	0.283716969	0.117065095	0.117416290	





'Anjali Niketan', Flat No. 3, 2nd Floor,  
Viveknagar, Akurdi, Pune - 411035.  
Website : www.mastertechsystems.in  
Email : service@mastertechsystems.in  
Mobile : +91 9623057200 /8408097666



**MASTERTECH**  
**SYSTEMS**  
WHEN QUALITY MATTERS

Certificate No. :- 2122/0131/05 -06 Page No. :- 2 of 2

S. No.	Cal Point	Accuracy Limit %	Accuracy %
1	5	5.0 %	0.76 %
2	25	0.8 %	0.37 %
3	50	0.8 %	0.14 %

S. No.	Cal Point	% CV Limit	% CV
1	5	2.0 %	1.122 %
2	25	1.5 %	1.139 %
3	50	0.3 %	0.235 %

Z Factor 1.0029 µl/mg Temperature 21.2 Deg C Humidity 52 % RH

Barometric Pressure 944.2 hPa Water Temperature 20.5 Deg C

**NOTES:**


- 1.The value measured of uuc & standard are mean of 10 reading.
- 2.The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by coverage factor K=2, which corresponds to a coverage probability of approximately 95.45% for normal distribution
- 3.This certificate refers only to the particular UUC submitted for calibration. UUC stands for Unit Under Calibration.
- 4.The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
5. This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from "Mastertech Systems" Pune.
- 6.The Instruments used for calibration are traceable to National/International standards and their calibrations are valid.

Calibrated By

  
Ms. Prachita Nighojkar  
Calibration Engineer



Approved By

  
Mr. Amol Deshmukh  
Quality Manager



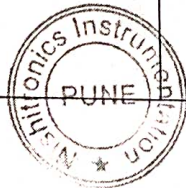
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## Nishitronics Instrumentation

► Service Engineers  
► Calibration Services in Industrial Process Control  
*We work for Customers Satisfaction*

CALIBRATION CERTIFICATE				
<b>CUSTOMER :- Mastertech Systems</b>	<b>Page No. :- 1 of 2</b>			
Anjali Niketan, Flat No. 3,	<b>ULR No. :- ULR-CC229421000004660F</b>			
2nd Floor, Viveknagar,	<b>Discipline :- Mechanical Calibration</b>			
Akurdi, Pune - 411035	<b>Certificate No :- NI/MTS/011021/001</b>			
	<b>Date of issue :- 09/10/2021</b>			
	<b>Date of receipt :- 01/10/2021</b>			
<b>Amb. Temp :- 23 ± 5 ° C</b>	<b>Date of calibration :- 01/10/2021</b>			
<b>Rh. :- 50 ± 10 % RH</b>	<b>Cal. Req. No. :- NI/MTS/011021/001</b>			
<b>Location of calibration :- SITE</b>	<b>Next Due Date :- 30/09/2022</b>			
<b>Characteristic and :- OK</b>	<b>Parameter :- MASS</b>			
<b>Condition of items</b>	<b>Calibration method no :- NI / CP / M / 02</b>			
<b>Details of Items</b>				
<b>Name :- Digital Weighing Balance</b>	<b>Range :- upto 60g, upto 220 g</b>			
<b>Make :- SAFFRON</b>	<b>Least Count :- 0.00001 g / 0.0001 g</b>			
<b>Model :- SES 265</b>	<b>Type :- Digital</b>			
<b>ID. NO. :- MTS / WB - 04</b>	<b>Accuracy :- Not Specified</b>			
<b>Sr. No. :- M21090500</b>	<b>Location :- --</b>			
<b>Details of Equipment used for Calibration</b>				
<b>Description :- Set of Weight From 1 mg To 200 g</b>				
<b>Sr. No. / ID. No. :- NI/WE1/01</b>				
<b>Calibrated By :- LCGC Trucal and Services LLP</b>				
<b>Certificate No. :- TC/4806/2019</b>				
<b>Validity :- 07/01/2022</b>				
OBSERVATION				
Cal. Point	Mass of Ref. Weight g	UUC Reading g	Correction (Ref mass -UCC Rdg) In g	Expanded Uncertainty In ± g
1 mg	0.0010003	0.00100	0.000000	0.000022
50 mg	0.0500017	0.04998	0.000022	0.000022
100 mg	0.1000005	0.10005	-0.000049	0.000022
1 g	1.0000035	1.00000	0.000004	0.000022
10 g.	10.000013	9.99999	0.000023	0.000022
20 g	19.999997	20.00005	-0.000053	0.000022
50 g	49.99999	49.99996	0.000030	0.000022
100 g	99.99999	99.9999	0.000090	0.000131
220 g	219.99995	220.0001	-0.000153	0.000131
UUC :- Unit Under Calibration				
<b>Repeatability Check ( For Max ) :</b>				
Cal. Point	Mass of Ref. Weight g	Observation Sr. No.	UUC Reading g	Standard Deviation in g
220 g	219.99995	1	220.0001	0.000099
		2	220.0001	
		3	219.9999	
		4	220.0001	
		5	219.9999	
		6	220.0000	
		7	220.0001	
		8	219.9999	
		9	220.0001	
		10	219.9999	



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Website : www.mastertechsystems.in  
Email : service@mastertechsystems.in  
Mobile : +91 9623057200 /8408097666



**MASTERTECH  
SYSTEMS**  
WHEN QUALITY MATTERS

### CALIBRATION CERTIFICATE

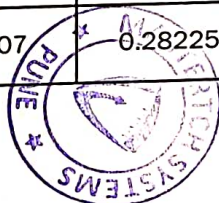
Certificate No.	:- 2122/0131/05 -05	Page No.	:- 1 of 2
Date of Calibration	:- 31-Jan-2022	Calibration Due Date	:- 30-Jan-2023
<b>1.Customer Name &amp; Address :</b> Synergen Diagnostics Unit No.105,Sai Chambers, Wakadewadi,Shivajinagar,Pune-411003.		SRF No.	:- 2122/0131/05
		Date of Received	:- 31-Jan-2022
		Cal. Cert. Issue Date	:- 2-Feb-2022
		Condition of UUC	:- OK
		Location of calibration	:- In Lab
		Calibration Procedure No.	:- MTS/VM/WI-01

<b>2.Environmental Conditions:</b>	Temperature:	21.1 °C	Relative Humidity:	53 % RH
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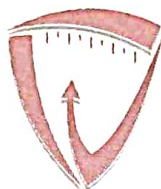
<b>3. Description of UUC</b>			
Name	:- Micropipette	Range	:- 100 to 1000 µL
Make	:- ERBA	L.C.	:- 5 µL
I.D No.	:- SD/PL/NH468614-03	Model/Sr.No.	:- —/NH468614-03
Type	:- Analog	Location	:- BIOCHEMISTRY

<b>4. Reference Standards used for calibration:</b>			
Name	:- Digital Weighing Balance	4- Wire RTD Sensor With Indicator	
Make	:- Saffron	Tempsens	
I.D No./Sr. No.	:- MTS/WB-04 / M21090500	MTS/TIS-01/867,0042	
Certificate No.	:- NI/MTS/011021/001	NI/2106/026/005	
Calibration Validity	:- 30-Sep-2022	13-06-2022	
Certified By	:- Nishitronics	Nishitronics	
Range/Uncertainty	:- As Per Certificate	-30 to 300 Deg C./(+/-) 0.09 Deg C.	

<b>5. Calibration Results</b>							
S. No.	Cal Point		Cal Point		Cal Point		
	100 µl		500 µl		1000 µl		
	Mass (mg)	Volume (µl)	Mass (mg)	Volume (µl)	Mass (mg)	Volume (µl)	
1	100.12148	100.42184	500.02153	501.52159	1002.68457	1005.69262	
2	100.07231	100.37253	499.86475	501.36434	1002.65413	1005.66209	
3	100.14254	100.44297	499.37386	500.87198	1001.44486	1004.44919	
4	100.02145	100.32151	499.53514	501.03375	1001.31258	1004.31652	
5	100.52531	100.82689	499.22115	500.71881	1001.04569	1004.04883	
6	100.44750	100.74884	499.56847	501.06718	1001.14593	1004.14937	
7	100.48575	100.78721	499.32650	500.82448	1002.24580	1005.25254	
8	100.08715	100.38741	499.88745	501.38711	1004.59630	1007.61009	
9	100.15894	100.45942	499.94730	501.44714	1003.20500	1006.21462	
10	100.22363	100.52430	499.65821	501.15718	1003.31512	1006.32507	
Mean	100.22861	100.52929	499.64044	501.13936	1002.36500	1005.37209	
Standard Devi.	0.186542870	0.187102498	0.281411607	0.282255842	1.153155743	1.156615210	



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Certificate No. :- 2122/0131/05 -05 Page No. :- 2 of 2

S. No.	Cal Point	Accuracy Limit %	Accuracy %
1	100	3.0 %	0.53 %
2	500	0.8 %	0.23 %
3	1000	0.6 %	0.54 %

S. No.	Cal Point	% CV Limit	% CV
1	100	0.6 %	0.186 %
2	500	0.3 %	0.056 %
3	1000	0.2 %	0.115 %

Z Factor 1.0029 µl/mg Temperature 21.1 Deg C Humidity 53 % RH

Barometric Pressure 944.4 hPa Water Temperature 20.2 Deg C

**NOTES:**

- 1.The value measured of uuc & standard are mean of 10 reading.
- 2.The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by coverage factor K=2, which corresponds to a coverage probability of approximately 95.45% for normal distribution
- 3.This certificate refers only to the particular UUC submitted for calibration. UUC stands for Unit Under Calibration.
- 4.The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
5. This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from "Mastertech Systems" Pune.
- 6.The Instruments used for calibration are traceable to National/International standards and their calibrations are valid.

Calibrated By

*P.R.*  
Ms. Prachita Nighojkar  
Calibration Engineer



Approved By

*Amol Deshmukh*  
Mr. Amol Deshmukh  
Quality Manager



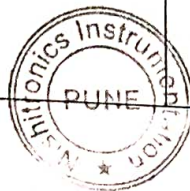
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**Nishitronics  
Instrumentation**

► Service Engineers  
► Calibration Services in Industrial Process Control  
*We work for Customers Satisfaction*

CALIBRATION CERTIFICATE				
<b>CUSTOMER :- Mastertech Systems</b>		Page No. :-	1 of 2	
Anjali Niketan, Flat No. 3,		ULR No. :-	ULR-CC22942100004660F	
2nd Floor, Viveknagar,		Discipline :-	Mechanical Calibration	
Akurdi, Pune - 411035		Certificate No :-	NI/MTS/011021/001	
Amb. Temp :- 23 ± 5 ° C		Date of issue :-	09/10/2021	
Rh. :- 50 ± 10 % RH		Date of receipt :-	01/10/2021	
Location of calibration :- SIIE		Date of calibration :-	01/10/2021	
Characteristic and :- OK		Cal. Req. No. :-	NI/MTS/011021/001	
Condition of items		Next Due Date :-	30/09/2022	
		Parameter :-	MASS	
		Calibration method no :-	NI / CP / M / 02	
Details of Items				
Name :-	Digital Weighing Balance	Range :-	upto 60g, upto 220 g	
Make :-	SAFFRON	Least Count :-	0.00001 g / 0.0001 g	
Model :-	SES 265	Type :-	Digital	
ID. NO. :-	MTS / WB - 04	Accuracy :-	Not Specified	
Sr. No. :-	M21090500	Location :-	--	
Details of Equipment used for Calibration				
Description :-	Set of Weight From 1 mg To 200 g			
Sr. No. / ID. No. :-	NI/WE1/01			
Calibrated By :-	LCGC Trucal and Services LLP			
Certificate No. :-	TC/4806/2019			
Validity :-	07/01/2022			
OBSERVATION				
Cal. Point	Mass of Ref. Weight g	UUC Reading g	Correction (Ref mass -UCC Rdg) In g	Expanded Uncertainty In ± g
1 mg	0.0010003	0.00100	0.000000	0.000022
50 mg	0.0500017	0.04998	0.000022	0.000022
100 mg	0.1000005	0.10005	-0.000049	0.000022
1 g	1.0000035	1.00000	0.000004	0.000022
10 g.	10.000013	9.99999	0.000023	0.000022
20 g	19.999997	20.00005	-0.000053	0.000022
50 g	49.99999	49.99996	0.000030	0.000022
100 g	99.99999	99.9999	0.000090	0.000131
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UUC :- Unit Under Calibration				
Repeatability Check ( For Max ) :				
Cal. Point	Mass of Ref. Weight g	Observation Sr. No.	UUC Reading g	Standard Deviation in g
220 g	219.99995	1	220.0001	0.000099
		2	220.0001	
		3	219.9999	
		4	220.0001	
		5	219.9999	
		6	220.0000	
		7	220.0001	
		8	219.9999	
		9	220.0001	
		10	219.9999	



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Tel.:020-24412615. E-mail : nishitronics@hotmail.com

*[Handwritten Signature]*

**Repeatability Check ( For 1/2 Max ) :**

Cal. Point	Mass of Ref. Weight g	Observation Sr. No	UUC Reading g	Standard Deviation In g
110 g	110.000003	1	109.9998	0.000048
		2	109.9998	
		3	109.9998	
		4	109.9997	
		5	109.9998	
		6	109.9997	
		7	109.9997	
		8	109.9998	
		9	109.9998	
		10	109.9998	

**Ecentric or Off-Centre Loading ( 1/2 Max or 1/3 Max ) :**

Cal. Point	Mass of Ref. Weight g	Position of Load	UUC Reading g	Ecentric Loading g
100 g	99.99999	Front Right/Front	99.9999	0.000100
		Front Left/Back	99.9999	
		Center	99.9999	
		Back Right /Right	99.9998	
		Back Left/Left	99.9999	

Limit Of Performance(F):- 0.000483 g

Hysteresis max 0.0001 g

The reported measurement uncertainty is estimated at a level of confidence of approximately 95 % with a coverage factor k = 2.

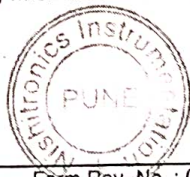
**Remarks :-**

- 1) Result are related only to the item calibrated .
- 2) This certificate refers only to the particular items submitted for calibration .
- 3) This certificate shall not be reproduced except in full without our prior permission in writing.
- 4) The calibration results reported in this particular certificate are valid at the time of an under stated condition of measurement.
- 5) Standard used for calibration were traceable to National / International standard.
- 6) Readings given above are as on received condition of an instrument.
- 7) The above results are used for scientific and R&D purpose only and should not used for trade and commercial use.
- 8) Standard referred :- OIML R-76
- 9) Density of Standard Weights:-  $7950 \pm 50 \text{ kg/m}^3$
- 10) Ecentricity is difference between reading when the test is weight moved to verious positions on pan

Calibrated by

*V.D. Mulik*

( V.D. Mulik )  
(Technical Assistant )



Authorized Signatory

*(Signature)*  
( V.B.Hingmire ) / ( S.B.Hingmire )  
(Technical Manager )

Form No. : NI/F7.8/M/04

Form Rev.No. : 0

Effective Form Date:20/11/2019

Issue No : 03

Issue Date :20/11/2019