



TransCal

Measurement to Perfection...



Main Bld. Premises : Centenary Building (G. Flr), Door No. At : 100
W. Park Rd., Between Sampighe Road And Margosa Rd.,
10th Crs., Malleswaram, Bangalore City, Pin-560003

CALIBRATION CERTIFICATE

Customer Name & Add. : M/s. Clinical Laboratory
CARI,GHY-781028

Customer's Reference : SRF No. : TSC/22-23/7590 Dated : 11 Aug 2022
ULR.NO CC223122000080853F

| Calibration Certificate Number | Calibrated On | Recommended Calibration Due | Page Number |
|--------------------------------|---------------|-----------------------------|-------------|
| TSC/22-23/7590-6 | 11 Aug 2022 | 11 Aug 2023 | 1 of 2 |

| Details of device under calibration | | Transcal ID : TSC365906 | |
|-------------------------------------|----------------------------|-------------------------|---|
| Nomenclature : Centrifuge | No. of Pages : 2 | Make : REMI | Cal Procedure No. : TSC/CAL/611A |
| Model/Range : C854/6 | DUC Received : 11 Aug 2022 | SI No. : AGLC.475 | DUC Condition on Receipt : Satisfactory |
| ID No. : NA | Cal At : Mechanical onsite | | |

Environmental Conditions : Temperature in °C : 24.2 Humidity in RH % : 52.4

Standards used :

| SI No. | Nomenclature | Make | Model | SI No./ID.No. | Certificate No. | Validity |
|--------|--------------------|-------|-------|---------------|-----------------|-------------|
| 1 | Digital Tachometer | Testo | 470 | 2027096 | 2120322-M01 | 13 Mar 2023 |

Note :

1. This Calibration Certificate relates only to the above DUC & Reported results are valid at the time of and under the stated conditions of measurements.
2. Partial Publication/ reproduction of this Certificate in any form is not permitted without the written consent of Transcal.
3. Errors if any, in this Certificate shall be brought to notice within 45 days from the date of this Certificate
4. Measurement Uncertainty reported is at approximately 95 % confidence level with k=2; Units of Measurement results & Measurement Uncertainty are same as that of range selected - Unless otherwise indicated.
5. Calibration of the DUC are traceable to National/International Standards
6. Corrections/erasing, invalidate the Calibration Certificate- exception to the 'Final Page or Part of this Report- provided for incorporation of additional data(To be filled by customer authorized signatory and not under calibration laboratory control).
7. In Result Sheets, 'Pass' indicates measured readings are within specification limit, 'Fail' Indicates measured readings are out of specification limit & ' - ' indicates no specification limit furnished.
8. Unless otherwise specified the Measurement Data reported is "As Found"-Without any adjustment .
9. Consider Model or Range whichever is applicable.
10. Nabl-133 guidelines are adopted for use of NABL symbol.

Calibrated By


Janardhan S
(Calibration Engineer)

Checked By


Shiva P
(Calibration Engineer)



Authorised By


Manjunath D J
(Lab In charge)



CAL CERT. NO : TSC/22-23/7590-6

ULR.NO : CC223122000080853F

Page : 2 of 2

Results :-

RPM :

Range : 0 to 3500rpm

| Sl. No. | DUC Setting in rpm | STD Reading in rpm | Observed Deviation in rpm | Measurement Uncertainty \pm in % | Remarks |
|---------|--------------------|--------------------|---------------------------|------------------------------------|---------|
| 1 | 100 | 108 | -8 | 0.29 | ---- |
| 2 | 500 | 512 | -12 | 0.38 | ---- |
| 3 | 1000 | 1015 | -15 | 0.29 | ---- |
| 4 | 2000 | 2021 | -21 | 0.25 | ---- |
| 5 | 3500 | 3526 | -26 | 0.24 | ---- |

Conclusion / Remarks :-

1. Measurement uncertainty reported is at 95% confidence level.

Calibrated By


Janardhan S
(Calibration Engineer)

Checked By


Shiva P
(Calibration Engineer)



Authorised By


Manjunath D J
(Lab In charge)



TransCal

Measurement to Perfection...



CC-2231

Main Bld. Premises : Centenary Building (G. Flr), Door No. At : 100
W. Park Rd., Between Sampighe Road And Margosa Rd.,
10th Crs., Malleswaram, Bangalore City, Pin - 560003

CALIBRATION CERTIFICATE

Customer Name & Add. : M/s. Clinical Laboratory
CARI,GHY-781028

Customer's Reference : SRF No. : TSC/22-23/7590 Dated : 11 Aug 2022
ULR.NO CC223122000080858F

| Calibration Certificate Number | Calibrated On | Recommended Calibration Due | Page Number |
|--------------------------------|---------------|-----------------------------|-------------|
| TSC/22-23/7590-3 | 11 Aug 2022 | 11 Aug 2023 | 1 of 2 |

| Details of device under calibration | | Transcal ID | : TSC365900 |
|-------------------------------------|---------------------|--------------------------|---------------------|
| Nomenclature | : Centrifuge | No. of Pages | : 2 |
| Make | : Dinesh Scientific | Cal Procedure No. | : TSC/CAL/611A |
| Model/Range | : DS-MC-AR | DUC Received | : 11 Aug 2022 |
| SI No. | : DS/2021-22/12/437 | DUC Condition on Receipt | : Satisfactory |
| ID No. | : NA | Cal At | : Mechanical onsite |

Environmental Conditions : Temperature in °C : 24.2

Humidity in RH % : 52.4

Standards used :

| SI No. | Nomenclature | Make | Model | SI No./ID.No. | Certificate No. | Validity |
|--------|--------------------|-------|-------|---------------|-----------------|-------------|
| 1 | Digital Tachometer | Testo | 470 | 2027096 | 2120322-M01 | 13 Mar 2023 |

Note :

1. This Calibration Certificate relates only to the above DUC & Reported results are valid at the time of and under the stated conditions of measurements.
2. Partial Publication/ reproduction of this Certificate in any form is not permitted without the written consent of Transcal.
3. Errors if any, in this Certificate shall be brought to notice within 45 days from the date of this Certificate
4. Measurement Uncertainty reported is at approximately 95 % confidence level with k=2; Units of Measurement results & Measurement Uncertainty are same as that of range selected - Unless otherwise indicated.
5. Calibration of the DUC are traceable to National/International Standards
6. Corrections/erasing, invalidate the Calibration Certificate- exception to the 'Final Page or Part' of this Report- provided for incorporation of additional data(To be filled by customer authorized signatory and not under calibration laboratory control).
7. In Result Sheets, 'Pass' indicates measured readings are within specification limit, 'Fail' Indicates measured readings are out of specification limit & '-' indicates no specification limit furnished.
8. Unless otherwise specified the Measurement Data reported is "As Found"-Without any adjustment .
9. Consider Model or Range whichever is applicable.
10. Nabl-133 guidelines are adopted for use of NABL symbol.

Calibrated By

Janardhan S
(Calibration Engineer)

Checked By

Shiva P
(Calibration Engineer)



Authorised By

Manjunath D J
(Lab In charge)



CAL CERT. NO : TSC/22-23/7590-3

ULR.NO : CC223122000080858F

Page : 2 of 2

Results :-

RPM :

Range : 0 to 3000rpm

| Sl. No. | DUC Setting in rpm | STD Reading in rpm | Observed Deviation in rpm | Measurement Uncertainty \pm in % | Remarks |
|---------|--------------------|--------------------|---------------------------|------------------------------------|---------|
| 1 | 100 | 112 | -12 | 0.29 | ---- |
| 2 | 500 | 525 | -25 | 0.38 | ---- |
| 3 | 1000 | 1036 | -36 | 0.29 | ---- |
| 4 | 2000 | 2045 | -45 | 0.25 | ---- |
| 5 | 3000 | 3062 | -62 | 0.25 | ---- |

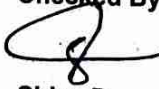
Conclusion / Remarks :-

1. Measurement uncertainty reported is at 95% confidence level.

Calibrated By


Janardhan S
(Calibration Engineer)

Checked By


Shiva P
(Calibration Engineer)



Authorised By


Manjunath D J
(Lab In charge)



NORTH EAST CALIBRATION & TESTING LABORATORY

Under the Scheme of MSME,
Govt. of Assam

| CALIBRATION CERTIFICATE | | | | | | |
|--|--|---|--|---------------------------------------|--------------------------|------------|
| ULR:--- | | Certificate Number: NECTL/0080-01/CAL-658 | | Certificate Issued On: 12/08/2022 | | |
| Item received | SRF No. | JOB ID No. | Date of Calibration | Recommended date for Next Calibration | | |
| 11/08/2022 | NECTL/2023/0080 | NECTL/OS/08/0080-1 | 11/08/2022 | 11/08/2023 | | |
| Customer's Name & Address | Asst. Director(In charge) Clinical Laboratory CARI, GHY-781028 | | Reference: As Per SRF No NECTL/2022/0080 Date: 11/08/2022 | | | |
| Discipline: Electro technical | | | Group:- Time & Frequency | | | |
| ITEM DESCRIPTION | | | | | | |
| Name of Item | Make/ Model | SL.No. /ID No. | Range | L.C/Resolution | Location | |
| Timer of Centrifuge | Dinesh Scientific/DS-MC-AR | DS-MC-21-22 | 0-59 min | 1 min | ---- | |
| STANDARD INSTRUMENT DETAILS: Traceable to National Standard through NABL Accredited Laboratory | | | | | | |
| SL. No. | Name of Standard | Make /Model | Certificate No. | Calibration Agency | Date of Calibration | Validity |
| 1 | Time interval calibrator | SBS techno services/TM-Cal1 | L22032401-01 | CC-3172 | 24-03-2022 to 08-04-2022 | 07-04-2023 |
| Method Used : Comparison Method | | | Procedure No: NECTL/ET/SW/005 | | | |
| Environmental Condition | | Temperature(°C): 20±2 | | Humidity(%RH):50±10 | | |
| Calibration Done: In House | | | | | | |

Calibration Data:

| Sl. no | Parameter | U.U.C. Reading in minutes | Standard Reading in Seconds | Deviation in Seconds (±) | Uncertainty in Seconds (±) |
|--------|-----------|---------------------------|-----------------------------|--------------------------|----------------------------|
| 1 | Time | 1 | 60.001 | 0.001 | 1.56 sec |
| 2 | | 10 | 600.001 | 0.001 | 31.011 sec |
| 3 | | 20 | 1200.002 | 0.002 | |
| 4 | | 30 | 1800.003 | 0.003 | |
| 5 | | 58 | 3480.005 | 0.005 | |

Uncertainty Measurement: The reported expanded uncertainty of measurement is calculated at 95.45% C.L with coverage factor k=2.

END OF Report

Note:

- The calibration results reported in this certificate are valid at the time of and the stated condition of measurement.
- The item received in good condition at the time of calibration/ testing. The results reported relate only to the above calibrated item.
- The reproduction of a part or an abstract thereof, has to be got specifically approved from CEO, NECTL, Guwahati.
- Calibration certificate without signature and seal are not valid.
- All calibration are done in S.I units and it is in accordance to ISO: IEC: 17025:2017 unless it is specified.
- NECTL is not liable for any change in calibration data & performance specification on account of malfunctioning of Standard/instruments/Equipment's covered by this certificate due to damage caused to its after issuance of this certificate
- Conformity statement and next calibration due date is as per customer's recommendation.
- This calibration certificate is meant for scientific and industrial purpose only.
- Nabl-133 guidelines are adopted for use of NABL symbol.

Calibrated by

Joyasri Bhuyan
Joyasri Bhuyan
Technical Officer



Authorized Signatory

Nikunja Nath Kakati
Nikunja Nath Kakati
Lab Incharge Page:1/1

REGD. OFFICE

B. R. Road, Sawkuchi, Guwahati-781040, Assam, India
GSTIN : 18AAOFN9322Q1ZC PAN : AAOFN9322Q

EMAIL ID :NECTL.ASSAM@GMAIL.COM

CONTACT No. : +919127808101

WEBSITE : WWW.NECTL.CO

CALIBRATION CERTIFICATE

Cert. No. : L22032401 - 01 ULR No.:CC317222200000069F
 Issue Date : 08-Apr-2022 Cal Date : 24-Mar-2022 to 08-Apr-2022 Due Date : 07-Apr-2023

| | |
|---|--|
| Customer : M/s. NORTH EAST CALIBRATION AND TESTING LABORATORY, B.R.ROAD, SAWKUCHI GUWAHATI -781040, ASSAM. | SRF No. : L22032401 SRF / Received Date : 24-Mar-2022 Physical Condition : OK Calibrated at : Laboratory Parameter : Electro-Technical |
|---|--|

UNIT UNDER CALIBRATION

| | |
|--|----------------------------|
| Instrument : TIME INTERVAL CALIBRATOR | Range : 0 - 100 Hours |
| Make / Model : SBS TECHNO SERVICES / TM-Cal1 | Resolution : 1 msec |
| Serial No : TM2K22C01 | ID. No : NECTL/ELC/TC/043A |
| Accuacy : ± 0.01% + 5 msec | |

MASTER EQUIPMENT USED

Nomenclature : 01) Time Interval Calibrator
 ID No. : RKL/ET/10
 Traceability : SL2111EL0107-001
 Valid. Date : 01-Dec-2022
 Master Equipments used are traceable to National Standards

Method of calibration as per RKL/WI/ET/06

Environmental condition maintained during Calibration:- Temp: 25 ± 3°C and Humidity: 40 to 60% RH

Result of Calibration

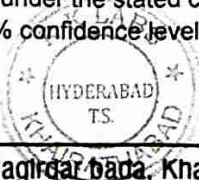
| Sr. No. | Function / Range | Master Reading | UUC Reading | Deviation | Measurement Uncertainty (±) |
|---------|------------------|----------------|-------------|-----------|-----------------------------|
| 01 | 0 to 100 Hour | 1.000 Sec | 1.000 Sec | 0.000 Sec | 0.0068 Sec |
| 02 | | 29.999 | 30.000 | 0.001 | 0.033 |
| 03 | | 59.996 | 60.000 | 0.004 | 0.059 |
| 04 | | 1799.956 | 1800.000 | 0.044 | 1.56 |
| 05 | | 3599.896 | 3600.000 | 0.104 | 3.05 |
| 06 | | 35999.623 | 36000.000 | 0.377 | 31.10 |
| 07 | | 86398.640 | 86400.000 | 1.360 | 74.12 |

Measurement Uncertainty reported at 95.45% confidence level with k = 2

REMARKS

1. Due Date Mentioned as per the customer requirement.
2. The given measured value is the average of readings taken.
3. This certificate refers only to the particular item submitted for calibration
4. Results reported are valid at the time of and under the stated conditions of measurement.
- 5 Measurement Uncertainty reported at 95.45% confidence level with k = 2.

Calibrated By 



Authorised Signatory 

Address : H.No. 6-1-906, Jagirdar Bada, Khairatabad, Hyderabad, Telangana-500004.

E-mail : rklabs2020@gmail.com, Mob. +91 - 9131753025, 9711217494

RKL/FF/25