

TULIP DIAGNOSTICS (P) LTD., (INSTRUMENTS DIVISION)

BAMBOLIM, ST-INEZ & VERNA - GOA

Hyderabad Office:

H. No. #5-70, Beside Andhra Bank, Street No. 8,

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Tel.: (040) 27177885, +91 7995001872

E-mail: tulipgroup.hyderabad@gmail.com No: SOP/ID/013

CC No: CC18/ID/001

CALIBRATION CERTIFICATE

Model: Turbodyne-SC

Calibration Date: 26-07-2021

Sr. No.: P15070195

Calibration Due Date: 25-07-2022

- 1) SCOPE: CALIBRATION OF Turbodyne SC
- 2) ITEM DETAILS: Nomenclature Turbidimetry & Nephelometer Analyzer
Type / Model Turbodyne SC
- 3) DETAILS OF TEST EQUIPMENTS USED:
 - 1) GLASS THERMOMETER
 - 2) DIGITAL STOP WATCH
- 37) MEASUREMENTS AND CHECKS CARRIED OUT UNDER STANDARD LABORATORY CONDITIONS.

AMBIENT TEMPERATURE: 25.0 °C - 30.0 °C RH %: 80.0

5) TEST RANGE AND ACCURACY:

- 1) Incubator Temperature: ± 1 °C of 37 °C

OBSERVATION:


MODULE		READINGS					RANGE	ERROR OBSERVED	RESULT
		1	2	3	4	5			
1	TEMP IN °C	36.7	36.9	37.9	36.8	37.1	< ± 1 °C	< ± 0.2 °C	PASS
2	Machine Chronometer in seconds	5	50	120	300	600	< 5%	< 5%	PASS
3	External Chronometer check count in seconds	4.76	48.9	118.6	297.1	594	< 5%	< 5%	PASS

6) CONCLUSION & REMARKS:

- 1) The standards used for calibration were calibrated using reference standards traceable to National Standards. Reference standards traceability details are as given below:

SR. NO.	DESCRIPTION	SL NO. \ MODEL	BASIC ACCURACY	TRACEABILITY
1	GLASS THERMOMETER	MT1801/ZEAL	± 0.1 °C	QATECH/GOA/01/21/MT1801
2	DIGITAL STOP WATCH	901194005647/ NIVIA	± 0.07 sec	QATECH/GOA/01/19/901194005647

- 2) Calibration of instruments valid only if it is ensured that handling, Preservation and storage of the instrument is such that accuracy and fitness for use is maintained.
- 3) Calibration of instruments is valid only if it is used specified environmental conditions.
- 4) Calibration of instruments is valid only if adequate safeguard is provided during servicing and maintenance.

CALIBRATED BY:  [Dinesh Kumar]



APPROVED BY: 

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Ref SOP No: SOP/ID/013
 CC No: CC18/ID/001

CALIBRATION CERTIFICATE

Model: Turbodyne-SC Incubator

Calibration Date: 26-07-2021

Sr. No.: 734

Calibration Due Date: 25-07-2022

- 1) SCOPE: CALIBRATION OF Turbodyne SC Incubator
- 2) ITEM DETAILS: Nomenclature Incubator
 Type / Model Turbodyne SC Incubator
- 3) DETAILS OF TEST EQUIPMENTS USED:
 1) GLASS THERMOMETER
- 4) MEASUREMENTS AND CHECKS CARRIED OUT UNDER STANDARD LABORATORY CONDITIONS.
 AMBIENT TEMPERATURE: 25.0 °C - 30.0 °C RH %: 80.0
- 5) TEST RANGE AND ACCURACY:
 1) Incubator Temperature: ± 1 °C of 37 °C

OBSERVATION:


MODULE	READINGS					RANGE	ERROR OBSERVED	RESULT
	1	2	3	4	5			
1 TEMP IN °C	36.7	36.6	37.9	36.8	37.1	$< \pm 1$ °C	$< \pm 0.3$ °C	PASS

6) CONCLUSION & REMARKS:

- 1) The standards used for calibration were calibrated using reference standards traceable to National Standards.
 Reference standards traceability details are as given below:

SR. NO.	DESCRIPTION	SL NO. \ MODEL	BASIC ACCURACY	TRACEABILITY
1	GLASS THERMOMETER	MT1801/ZEAL	± 0.1 °C	QATECH/GOA/01/21/MT1801

- 2) Calibration of instruments valid only if it is ensured that handling, Preservation and storage of the instrument is such that accuracy and fitness for use is maintained.
- 3) Calibration of instruments is valid only if it is used specified environmental conditions.
- 4) Calibration of instruments is valid only if adequate safeguard is provided during servicing and maintenance.

 CALIBRATED BY:  [Dinesh Kumar]

 APPROVED BY: 