

T TULIP DIAGNOSTICS (P) LTD.

a ParkinElmer company

CIN: U05190GA1999PTC005711

Hyderabad Office:

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

Habibguda, Hyderabad - 500 007, INDIA.

Tel.: (040) 27177885, +91 7995001872

E-mail: tulipgroup.hyd@gmail.com

Installation Qualification

For

Turbodyne-SC

Turbidimetry ● Nephelometry

S.NO: P15070195

PACE HOSPITALS

**PLOT NO 23, HUDA TECHNO ENCLAE ,PATRIKA NAGA
MADHAPUR HYDERABAD-500081**



Scanned with CamScanner

Corporate Office: Tulip House, Dr. Rego Bagh, Alto Santacruz, Bambolim Complex Post Office, Goa - 403 202, INDIA.
Tel.: (0832) 2458546-51, Fax: (0832) 2458544 E-mail: sales@tulipgroup.com, Website: www.tulipgroup.com

Excellence

T TULIP DIAGNOSTICS (P) LTD.

a ParkinElmer company

CIN: U01195GA1000PT0005717

Hyderabad Office:

H. No. #5-70, Beside Andhra Bank, Street No. 8,
Habsiguda, Hyderabad - 500 007, INDIA.
Tel.: (040) 27177885, +91 7995001872.
E-mail: tulipgroup.hyd@gmail.com

Contents

- 1) Instrument Origin and Identification
- 2) Instrument Specification
- 3) Environment Condition
- 4) Instrument Delivery and Documentation
- 5) Instrument Safety
- 6) Assembly and Installation
- 7) Summary Report



Scanned with CamScanner

Corporate Office: Tulip House, Dr. Rego Bagh, Alto Santacruz, Bambolim Complex Post Office, Goa - 403 202, INDIA.
Tel.: (0832) 2458546-51, Fax: (0832) 2458544. E-mail: sales@tulipgroup.com, Website: www.tulipgroup.com

Innovative Excellence

T TULIP DIAGNOSTICS (P) LTD.

a PerkinElmer company

OR: 131475541581202517

Hyderabad Office:
H. No. #5-70, Beside Andhra Bank, Street No. 6,
Hebalguda, Hyderabad - 500 007, INDIA.
Tel.: (040) 27177885, +91 7995001872
E-mail: tulipgroup hyd@gmail.com

1) Instrument Origin and Identification

Turbidyme-SC

Sr. No	Specification	As per design qualification	Specification received	Match (Yes/No)
1	General Feature	Turbidimetry & Nephelometry	Yes	Yes
2	Smart Card Technology	Lot specific assay calibration with application.	Yes	Yes
3	Optical system	Laser LED (650nm) and silicon detector at 135° & 180°	Yes	Yes
4	Reading Chamber	Temperature 37°C ± 1°C Auto Mixing	Yes	Yes
5	Display	4.3" Color touch screen	Yes	Yes
6	Electronic Pipette	Electronic pipette for reagent and auto start reading	Yes	Yes
7	Power requirement	External Power adaptor Input 220-240V 50/60Hz, Output 12V DC	Yes	Yes

Comments:

Scrutined



Scanned with CamScanner

Corporate Office: Tulip House, Dr. Rego Bagh, Alto Santacruz, Bambolim Complex Post Office, Goa - 403 202, INDIA.
Tel.: (0832) 2458546-51, Fax: (0832) 2458544. E-mail: sales@tulipgroup.com, Website: www.tulipgroup.com

Excellence

T TULIP DIAGNOSTICS (P) LTD.

a PerkinElmer company

CHE: LBS19MGA1988PTC008717

Hyderabad Office:

H. No. #5-70, Beside Andhra Bank, Street No. 8,
Habsiguda, Hyderabad - 500 007, INDIA.
Tel.: (040) 27177885, +91 7995001872.
E-mail: tulipgroup.hyd@gmail.com

2) Instrument Specification

3) Turbidvno-SC

Sr. No	Specification	As per design qualification	Specification received	Match (Yes/No)
1	General Feature	Turbidimetry & Nephelometry		✓
2	Optical system	Laser LED (650nm) and silicon detector at 135° & 180°		✓
3	Reading Chamber	Temperature 37°C ± 1°C Auto Mixing		✓
4	Display	4.3" Color touch screen		✓
5	Memory	500 Result		✓
6	Power requirement	External Power adaptor Input 220-240V 50/60Hz, Output 12V DC		✓
7	Electronic Pipette	Electronic pipette for reagent and auto start reading		✓
8	Printer and data transfer	Inbuilt thermal printer (57mm) RS232 port for data transfer		✓
9	Battery Backup supply	2200mAH LI-ion battery		✓

Comments: *Satisfies*

4) Environment Condition

Has the Instrument been adequately acclimatized since transport or storage?

YES: ✓

NO:

Operating Parameters	Specified Range	Conditions Met
Ambient Temperature	0 - 40°C	27
Maximum Relative Humidity	≤ 85%	45 - 65
Maximum Height	01 mtr	1.5
Supply Voltage & Frequency	External Power adaptor Input 220-240V 50/60Hz, Output 12V DC	230, 50Hz

Comments: *Satisfies*



Scanned with CamScanner

Corporate Office: Tulip House, Dr. Rego Bagh, Alto Santacruz, Bambolim Complex Post Office, Goa - 403 202, INDIA.
Tel.: (0832) 2458546-51, Fax: (0832) 2458544. E-mail: sales@tulipgroup.com. Website: www.tulipgroup.com

Innovative Excellence

T TULIP DIAGNOSTICS (P) LTD.

a PerkinElmer company

CIN: U85195GA1982PTC005717

Hyderabad Office:
H. No. #5-70, Beside Andhra Bank, Street No. 8,
Habsiguda, Hyderabad - 500 007, INDIA.
Tel.: (040) 27177885, +91 7995001872.
E-mail: tulipgroup.hyd@gmail.com

6) Instrument Safety

Manufacturer Safety Recommendations:

Allow enough space for the Instrument	YES: <input checked="" type="checkbox"/>	NO: <input type="checkbox"/>
Position on level, non-combustible surface Indoors	YES: <input checked="" type="checkbox"/>	NO: <input type="checkbox"/>
Area free from aggressive/ explosive chemical mixtures	YES: <input checked="" type="checkbox"/>	NO: <input type="checkbox"/>
Ensure correct power supply and all power switches Easily accessible	YES: <input checked="" type="checkbox"/>	NO: <input type="checkbox"/>
Beware of moving parts during working	YES: <input checked="" type="checkbox"/>	NO: <input type="checkbox"/>
Do not use Heat material that could cause fire or other Hazards	YES: <input checked="" type="checkbox"/>	NO: <input type="checkbox"/>
Read Operator Manual before use	YES: <input checked="" type="checkbox"/>	NO: <input type="checkbox"/>

Comments: *Sensitive*



T TULIP DIAGNOSTICS (P) LTD.

a PerkinElmer company

CR: US1195GA1985PTC02577

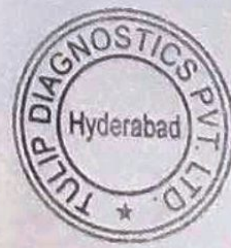
Hyderabad Office:

H. No. #5-70, Beside Andhra Bank, Street No. 8,
Habsiguda, Hyderabad - 500 007, INDIA.
Tel.: (040) 27177885, +91 7995001872
E-mail: tulipgroup.hyd@gmail.com

7) Assembly and Installation

Assembled and installed By: <u>Dinesh</u>	User: <u>FACE</u>	Specialized Engineer: <u>Mr. Sriniv</u>
Installation Procedure:	OK <input checked="" type="checkbox"/>	N/A
Unpack and retain Packaging		
Assembling the Instrument		
Verifying the site before connecting to power supply		
Checking the instrument before performing the Test		

Comments: Satisfied



Scanned with CamScanner

T TULIP DIAGNOSTICS (P) LTD.

a ParkinElmer company

CIN: U41100KA1999PTC005717

Hyderabad Office:

H. No. #5-70, Beside Andhra Bank, Street No. 8,
Habsiguda, Hyderabad - 500 007, INDIA.
Tel.: (040) 27177885, +91 7995001872.
E-mail: tulipgroup.hyd@gmail.com

8) Summary Report

Instrument Name: *Turbidimeter - SC*

Sr. No.: *P15070195*

Manufacturer: *Tulip Diagnostics Pvt Ltd*

Assessment of complete Installation Qualification:

No Deviations:

Deviations:

Deviation	Impact on Operation	Justification for Acceptance
/	/	/
/	/	/
/	/	/
/	/	/

Successful completion of the preceding activities and checks indicates that this Instrument is installed successfully as per the set protocol. The instrument has passed the Installation Qualification procedure and may now be released for use.

IQ Completed By:	<i>Mr. Dinesh</i>	Date:	<i>9/1/2017</i>
Deviations Approved By:	—	Date:	—
IQ Approved By:	<i>Mr. Sunny</i>	Date:	<i>9/1/2017</i>

Comments: *Satisfied*



Scanned with CamScanner

Corporate Office: Tulip House, Dr. Rego Bagh, Alto Santacruz, Bambolim Complex Post Office, Goa - 403 202, INDIA.
Tel.: (0832) 2458546-51, Fax: (0832) 2458544. E-mail: sales@tulipgroup.com, Website: www.tulipgroup.com

T TULIP DIAGNOSTICS (P) LTD.

a PerkinElmer company

CVI 1851564198PTG00117

Hyderabad Office:

H No. #5-70, Beside Andhra Bank, Street No. 5,
Habsiguda, Hyderabad - 500 007, INDIA.
Tel.: (040) 27177885, +91 7995001872.
E-mail: tulipgroup.hyd@gmail.com

Operation

Qualification For

Turbodyne-SC

Turbidimetry ● Nephelometry

S.NO: P15070195

PACE HOSPITALS

PLOT NO 23, HUDA TECHNO ENCLAE ,PATRIKA NAGAR
MADHAPUR HYDERABAD-500081



Scanned with CamScanner

Corporate Office: Tulip House, Dr. Rego Bagh, Alto Santacruz, Bambolim Complex Post Office, Goa - 403 202, INDIA.
Tel.: (0832) 2458546-51, Fax: (0832) 2458544. E-mail: sales@tulipgroup.com, Website: www.tulipgroup.com

Innovative Excellence

T TULIP DIAGNOSTICS (P) LTD.

a PerkinElmer company

CIN: U65195GA1998PTC005717

Hyderabad Office:

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

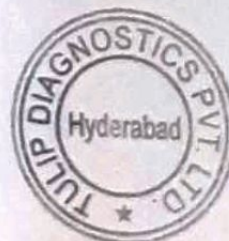
Habsiguda, Hyderabad - 500 007, INDIA.

Tel.: (040) 27177885, +91 7995001872

E-mail: tulipgroup.hyd@gmail.com

Contents

- 1) Safety Tests
- 2) Pre-Run Checks
- 3) Functional Tests
- 4) Training
- 5) Summary Report



Scanned with CamScanner

Corporate Office: Tulip House, Dr. Rego Bagh, Alto Santacruz, Bambolim Complex Post Office, Goa - 403 202, INDIA.
Tel.: (0832) 2458546-51, Fax: (0832) 2458544, E-mail: sales@tulipgroup.com, Website: www.tulipgroup.com

T TULIP DIAGNOSTICS (P) LTD.

a PerkinElmer company

CIN: U05195GA1992PTC028717

Hyderabad Office:
H. No. #5-70, Beside Andhra Bank, Street No. 8,
Habsiguda, Hyderabad - 500 007, INDIA.
Tel.: (040) 27177885, +91 7995001872.
E-mail: tulipgroup hyd@gmail.com

1) Safety Tests

This instrument confirms to the following standards and is supplied fully tested by the Manufacturer.

- Electrical equipment for measurement, control and laboratory use.
- Instrument requirement for laboratory for Blood testing.

The following electrical safety tests should be carried out by a competent person after installation.

Safety Tests	Pass	Fall	Date	Signed
Earthing	✓			Dub
UPS Supply	✓			Dub

Comments: *See attached*

2) Pre-Run Checks

Turbodyne-SC

Pre run check	OK	N/A
Reading Chamber Empty	/	/
Paper Roll Present	/	/
Temperature 37°C	/	/

Comments: _____



Scanned with CamScanner

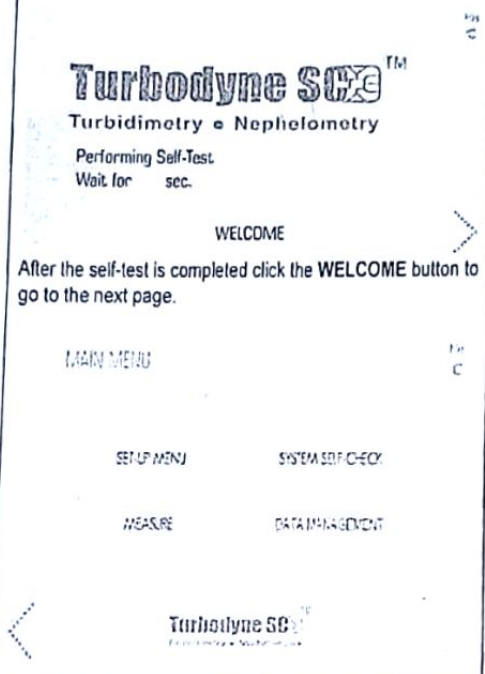
Corporate Office: Tulip House, Dr. Rego Bagh, Alto Santacruz, Bambolim Complex Post Office, Goa - 403 202, INDIA.
Tel.: (0832) 2458546-51, Fax: (0832) 2458544. E-mail: sales@tulipgroup.com, Website: www.tulipgroup.com

Innovative Excellence

Hyderabad Office:
 H. No. #5-70, Beside Andhra Bank, Street No. 8,
 Habsiguda, Hyderabad - 500 007, INDIA.
 Tel.: (040) 27177885, +91 7995001872.
 E-mail: tulipgroup hyd@gmail.com

3) Functional Tests

Turbodyne-SC

Functional Test	Acceptance Criteria	Pass	Fail
Instrument power ON	<p>The analyser performs self-check. The counter on the display "wait for XXX Sec (600 sec), indicates the time required for Optical stabilization during self-check, as show in below image:</p> 	✓	

Comments: self test



Scanned with CamScanner

Corporate Office: Tulip House, Dr. Rego Bagh, Alto Santacruz, Bambolim Complex Post Office, Goa - 403 202, INDIA.
 Tel.: (0832) 2458546-51, Fax: (0832) 2458544. E-mail: sales@tulipgroup.com, Website: www.tulipgroup.com

T TULIP DIAGNOSTICS (P) LTD.

a PerkinElmer company

CIN: U07199SA1998PTC009713

Hyderabad Office:

H. No. #5-70, Beside Andhra Bank, Street No. 8,
Habsiguda, Hyderabad - 500 007, INDIA.
Tel.: (040) 27177885, +91 7995001672
E-mail: tulipgroup hyd@gmail.com

4) **Training**

Trained Operators	Read Operator Manual	Read SOP	Practical Training	Authorizing Signature
K. N. S. Shetty	Yes	Yes	Yes	DH
A. Anand	Yes	Yes	Yes	DH
Pooja	Yes	Yes	Yes	DH
P. K. Lakshmi	Yes	Yes	Yes	DH
P. K. S. S.	Yes	Yes	Yes	DH

Comments: Satisfactory



Scanned with CamScanner

Corporate Office: Tulip House, Dr. Rego Bagh, Alto Santacruz, Bambolim Complex Post Office, Goa - 403 202, INDIA.
Tel.: (0832) 2458546-51, Fax: (0832) 2458544, E-mail: sales@tulipgroup.com, Website: www.tulipgroup.com

Hyderabad Office:
 H. No. 85-70, Beside Andhra Bank, Street No. 8,
 Habsiguda, Hyderabad - 500 007, INDIA.
 Tel.: (040) 27177885, +91 7995001872.
 E-mail: tulipgroup hyd@gmail.com

5) Summary Report

Instrument Name: *Turbidimeter - SC*

Sr. No.: *P1507095*

Manufacturer:

Assessment of complete Operational Qualification:

No Deviations:

Deviations:

Deviation	Impact on Operation	Justification for Acceptance
/	/	/
/	/	/
/	/	/
/	/	/

Successful completion of the preceding activities and checks indicates that this Instrument is installed successfully as per the set protocol. The instrument has passed the Installation Qualification procedure and may now be released for use.

IQ Completed By:	<i>Mr. Dinesh</i>	Date:	<i>9/1/2017</i>
Deviations Approved By:	<i>-</i>	Date:	<i>-</i>
IQ Approved By:	<i>Mr. Sunny</i>	Date:	<i>9/1/2017</i>

Comments: *Sent's 4/1/17*



Scanned with CamScanner

Corporate Office: Tulip House, Dr. Rego Bagh, Alto Santacruz, Bambolim Complex Post Office, Goa - 403 202, INDIA.
 Tel.: (0832) 2458546-51, Fax: (0832) 2458544. E-mail: sales@tulipgroup.com. Website: www.tulipgroup.com

T TULIP DIAGNOSTICS (P) LTD.

a PerkinElmer company

Hyderabad Office:

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

Habsiguda, Hyderabad - 500 007, INDIA.

Tel.: (040) 27177885, +91 7995001672.

E-mail: tulipgroup hyd@gmail.com

Performance Qualification

For

Turbodyne-SC

Turbidimeter Nephelometry

S.NO: P15070195

PACE HOSPITALS.

**PLOT NO 23, HUDA TECHNO ENCLAE ,PATRIKA NAGAR
MADHAPUR HYDERABAD-500081**



Scanned with CamScanner

Corporate Office: Tulip House, Dr. Rego Bagh, Alto Santacruz, Bambolim Complex Post Office, Goa - 403 202, INDIA.
Tel.: (0832) 2458546-51, Fax: (0832) 2458544. E-mail: sales@tulipgroup.com, Website: www.tulipgroup.com

Excellence

T TULIP DIAGNOSTICS (P) LTD.

a PerkinElmer company

CAJ 105190A1998P0005717

Hyderabad Office:

H. No. #5-70, Beside Andhra Bank, Street No. B,
Habsiguda, Hyderabad - 500 007, INDIA.
Tel.: (040) 27177885, +91 7995001872
E-mail: tulipgroup.hyd@gmail.com

Contents

Performance Check
Triggering Factor
Calibration
Re-Calibration
Routine Maintenance
Safety Tests
Summary Report
Performance



Scanned with CamScanner

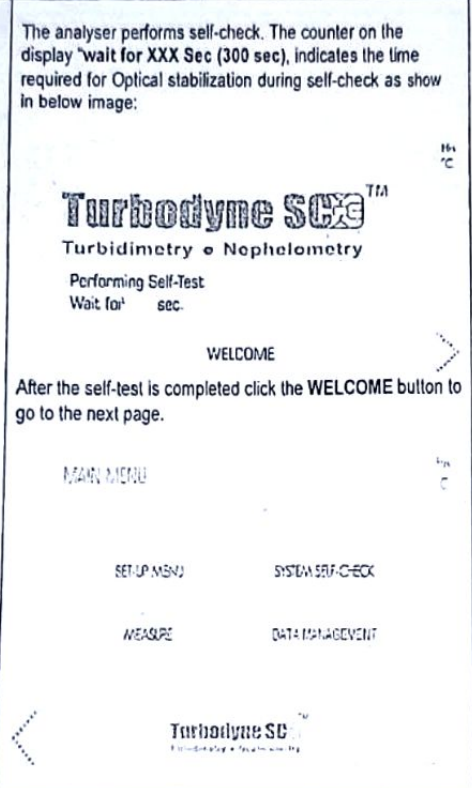

Corporate Office: Tulip House, Dr. Rego Bagh, Alto Santacruz, Bambolim Complex Post Office, Goa - 403 202, INDIA.
Tel.: (0832) 2458546-51. Fax: (0832) 2458544. E-mail: sales@tulipgroup.com. Website: www.tulipgroup.com

Innovative Excellence

Hyderabad Office:
 H. No. #5-70, Beside Andhra Bank, Street No. 8,
 Habalguda, Hyderabad - 500 007, INDIA.
 Tel.: (040) 27177885, +91 7995001872.
 E-mail: tulipgroup.hyd@gmail.com

1) Performance Check

Turbodyne SC

Functional Test	Acceptance Criteria	Pass	Fail
Instrument power ON	<p>The analyser performs self-check. The counter on the display "wait for XXX Sec (300 sec), indicates the time required for Optical stabilization during self-check as show in below image:</p>  <p>After the self-test is completed click the WELCOME button to go to the next page.</p>		

Comments: *substituted*



Scanned with CamScanner

Corporate Office: Tulip House, Dr. Rego Bagh, Alto Santacruz, Bambolim Complex Post Office, Goa - 403 202, INDIA.
 Tel.: (0832) 2458546-51, Fax: (0832) 2458544. E-mail: sales@tulipgroup.com, Website: www.tulipgroup.com

T TULIP DIAGNOSTICS (P) LTD.

a PerkinElmer company

CEI #51125JA1999PT005217

Hyderabad Office:
 H. No. #5-70, Beside Andhra Bank, Street No. 8,
 Habasiguda, Hyderabad - 500 007, INDIA.
 Tel.: (040) 27177885, +91 7995001872.
 E-mail: tulipgroup.hyd@gmail.com

2) Triggering Factor

Calibration	Calibration is done by factory side at first time
Re-Calibration	After 1 year
Routine Maintenance	2 routine maintenance in a year

3) Calibration

Calibration	Suggested Time	Not Done	Ok	Not Ok
Temperature calibration check	37°C		✓	
Timer calibration check				

Comments:- sub'stance

4) Re-Calibration

Calibration	Suggested Time	Not Done	Ok	Not Ok
Temperature calibration check	✓	✓	✓	
Timer calibration check	✓	✓	✓	✓

Comments:- ✓



Scanned with CamScanner

Corporate Office: Tulip House, Dr. Rego Bagh, Alto Santacruz, Bambolim Complex Post Office, Goa - 403 202, INDIA.
 Tel.: (0832) 2458546-51, Fax: (0832) 2458544, E-mail: sales@tulipgroup.com, Website: www.tulipgroup.com

Innovation Excellence

Hyderabad Office:
 H. No. #5-70, Beside Andhra Bank, Street No. 8,
 Habsiguda, Hyderabad - 500 007, INDIA.
 Tel.: (040) 27177885, +91 7995001872.
 E-mail: tulipgroup.hyd@gmail.com

5) Routine Maintenance

This instrument has been designed for Blood Testing. If any fault occurs, it is advised to contact Tulip Diagnostics Service Engineer.

The frequency with which routine maintenance tasks are being completed should be recorded below.

Routine Maintenance	Date	Done	Not Done

Comments: *Every six months*

6) Safety Tests

This instrument conforms to the following standards and is supplied fully tested by the Manufacturer.

- Electrical equipment for measurement, control and laboratory use.
- Instrument requirement for laboratory for Blood testing.

The following electrical safety tests should be carried out by a competent person after installation.

Safety Tests	Pass	Fail	Date	Signed
Earthing	<i>K</i>			<i>Pu</i>
UPS Supply	<i>K</i>			<i>Pu</i>

Comments: *satisfied*



Scanned with CamScanner

Corporate Office: Tulip House, Dr Rego Bagh, Alto Santacruz, Bambolim Complex Post Office, Goa - 403 202, INDIA.
 Tel.: (0832) 2458546-51 Fax: (0832) 2458544. E-mail: sales@tulipgroup.com, Website: www.tulipgroup.com

T TULIP DIAGNOSTICS (P) LTD.

a PerkinElmer company

CHE URS1983A198PTCC005711

Hyderabad Office:
H. No. #5-70, Beside Andhra Bank, Street No. 8,
Habsiguda, Hyderabad - 500 007, INDIA.
Tel.: (040) 27177885, +91 7995001872.
E-mail: tulipgroup.hyd@gmail.com

1) Summary Report

Instrument Name: *Turbodyne-SC*
Sr. No.: *P15070195*
Manufacturer: *Tulip Diagnostics - PVT LTD*
Assessment of complete Operational Qualification:

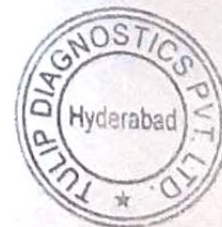
No Deviations:		Deviations:
Deviation	Impact on Operation	Justification for Acceptance
/	/	/
/	/	/
/	/	/
/	/	/

Successful completion of the preceding activities and checks indicates that this Instrument is installed successfully as per the set protocol. The instrument has passed the Installation Qualification procedure and may now be released for use.

IQ Completed By:	<i>Mr. Dinesh</i>	Date:	<i>9/1/2017</i>
Deviations Approved By:	<i>←</i>	Date:	<i>—</i>
IQ Approved By:	<i>Mr. Sunny</i>	Date:	<i>21/1/2017</i>

Comments: *Satisfied*

Aruni
9/1/2017



Scanned with CamScanner

Corporate Office: Tulip House, Dr. Rego Bagh, Alto Santacruz, Bambolim Complex Post Office, Goa - 403 202, INDIA.
Tel.: (0832) 2458546-51, Fax: (0832) 2458544. E-mail: sales@tulipgroup.com, Website: www.tulipgroup.com

Innovative Excellence

T TULIP DIAGNOSTICS (P) LTD.

a PerkinElmer company

CIN: URS1950A1265PTC005717

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

BAMBOLIM, ST-INEZ & VERNA - GOA

Hyderabad Office:

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

Habsiguda, Hyderabad - 500 007, INDIA.

Tel.: (040) 27177885, +91 7995001872

E-mail: tulipgroup.hyderabad@gmail.com

SOP 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	GATECH/GOA/01/21/MT1801
2	DIGITAL STOP WATCH	901194005647/NIVA	± 0.07 sec	GATECH/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: 

18

HBAlc. octomber - 2

Date	LOT. NO.	Result	Range	mean	done by
rate	286101		5.6-8.2	7.0	
10/10/21	286101	7.3	5.6-8.2	7.0	Shivamm
21/10/21	286101	6.5	5.6-8.2	7.0	Shivamm
04/10/21	286101	8.2	5.6-8.2	7.0	Narsing
25/10/21	286101	7.6	5.6-8.2	7.0	shu
26/10/21	286101	8.2	5.6-8.2	7.0	shu
27/10/21	286101	8.3	5.6-8.2	7.0	shu
8/10/21	286101	6.4	5.6-8.2	7.0	shu
9/10/21	286101	6.3	5.6-8.2	7.0	shu
	286103		5.6-8.2	7.0	
9/10	286013	6.3	5.6-8.2	7.0	Shivamm
11/10/21	286013	6.7	5.6-8.2	7.0	shu
12/10/21	286013	6.8	5.6-8.2	7.0	shu
13/10/21	286013	6.3	5.6-8.2	7.0	shu
14/10/21	286013	7.0	5.6-8.2	7.0	shu
15/10/21	286013	7.5	5.6-8.2	7.0	shu
16/10/21	286013	7.8	5.6-8.2	7.0	shu
17/10/21	286013	8.1	5.6-8.2	7.0	shu
18/10/21	286013	8.1	5.6-8.2	7.0	shu
20/10/21	256013	7.5	5.6-8.2	7.0	shu
21/10/21	256013	6.6	5.6-8.2	7.0	shu
22/10/21	256013	6.2	5.6-8.2	7.0	shu
23/10/21	256013	5.9	5.6-8.2	7.0	shu
25/10/21	256013	7.9	5.6-8.2	7.0	shu
26/10/21	256013	6.2	5.6-8.2	7.0	shu
27/10/21	256013	6.5	5.6-8.2	7.0	shu
29/10/21	256013	6.4	5.6-8.2	7.0	shu
29/10/21	256013	6.7	5.6-8.2	7.0	shu
30/10/21					

Test Report
Patient Name:
Patient ID:
Age:
Sex:

Test Name: HbA1c
Result: 7.80 % H
16/10/2021 10:05

Test Report
Patient Name:
Patient ID:
Age:
Sex:

Test Name: HbA1c
Result: 7.60 % H
20/10/2021 09:18

Test Report
Patient Name:
Patient ID:
Age:
Sex:

Test Name: HbA1c
Result: 6.79 % H
25/10/2021 09:25

Test Report
Patient Name:
Patient ID:
Age:
Sex:

Test Name: HbA1c
Result: 6.55 % H
27/10/2021 09:08

Test Report
Patient Name:
Patient ID:
Age:
Sex:

Test Name: HbA1c
Result: 6.44 %
28/10/2021 09:38

HbA1c - Sep 2021

17

Test Report
Patient Name:
Patient ID:
Age:
Sex:
Test Name: HbA1c
Result: 6.97 %
01-09-2021 10:50

QC

Date	Lot No.	Result	Range	Mean	Done by	HOD Sign
01/09/21	286101	6.9	5.6-8.2	7.0	poorjashree Rang	
02/09/21	286101	6.77	5.6-8.2	7.0	KL	Rang
03/09/21	286101					
04/09/21						
05/09/21						

Test Report
Patient Name:
Patient ID:
Age:
Sex:
Test Name: HbA1c
Result: 7.35 %
30-09-2021 08:59

Date	286103	Results	Range	Mean	Done by	HOD Sign
			5.6-8.2	7.0		
date-11-9/21	286103	7.4	5.6-8.2	7.0	gayathri	Rang

Patient Name:
Patient ID:
Age:
Sex:
Test Name: HbA1c
Result: 7.35 %
16-09-2021 10:02

13/9/21	286103	6.4	"	7.0	Nagesh	Rang
14/9/21	286103	6.9	5.6-8.2	7.0	shu	Rang
15/9/21	286103	6.5	5.6-8.2	7.0	shu	Rang
16/9/21	286103	7.3	5.6-8.2	7.0	shu	Rang
17/9/21	286103	7.1	5.6-8.2	7.0	shu	Rang
18/9/21	286103	6.5	5.6-8.2	7.0	shu	Rang

Test Report
Patient Name:
Patient ID:
Age:
Sex:
Test Name: HbA1c
Result: 6.55 %
18-09-2021 09:19

19/09/21	286103	6.4	5.6-8.2			Rang
20/09/21	286103	7.2	5.6-8.2			Rang
21/9/21	286103	7.7	5.6-8.2	7.0	pralash	Rang
22/9/21	286103	7.5	5.6-8.2	7.0	pralash	Rang
23/09/21	286103	6.4	5.6-8.2	7.0		Rang
24/09/21	286103	6.9	5.6-8.2	7.0	gayathri	Rang
25/09/21	286103	6.7	5.6-8.2	7.0		Rang
26/09/21	286103	7.2	5.6-8.2	7.0		Rang

Test Report
Patient Name:
Patient ID:
Age:
Sex:
Test Name: HbA1c
Result: 6.56 %
15-09-2021 09:22

QC

27/09/21	286103	6.8	5.6-8.2	7.0	gayathri	Rang
28/09/21	286103	6.5	5.6-8.2	7.0	shu	Rang
29/09/21	286103	6.5	5.6-8.2	7.3	shu	Rang
30/09/21	286103	6.5	5.6-8.2	7.3	shu	Rang

Patient Name:
Patient ID:
Age:
Sex:
Test Name: HbA1c
Result: 6.93 %
14-09-2021 09:38

QC

Test Report
Patient Name:
Patient ID:
Age:
Sex:

IAC

HbA1c

November - 21

19

date	LOT-NO	Result	Range	mean	done by	HDD Signature
	286101		5-6-8-2	7.0		
11/11/21	286103	7.0	5-6-8-2	7.0	shu	
2/11/21	286103	6.2	5-6-8-2	7.0	shu	
3/11/21	286103	7.0	5-6-8-2	7.0	shu	
5/11/21	286103	6.6	5-6-8-2	7.0	shu	
6/11/21	286103	6.4	5-6-8-2	7.0	shu	
8/11/21	286103	6.7	5-6-8-2	7.0	shu	
9/11/21	286103	6.6	5-6-8-2	7.0	shu	
10/11/21	286103	6.8	5-6-8-2	7.0	shu	
11/11/21	286103	6.6	5-6-8-2	7.0	shu	
12/11/21	286103	6.9	5-6-8-2	7.0	shu	
13/11/21	286103	6.6	5-6-8-2	7.0	shu	

Test Report

Patient Name:
Patient ID:
Age:
Sex:

shu

Test Name: HbA1c
Result: 6.28 %
02/11/2021 09:18

Test Report

Patient Name:
Patient ID:
Age:
Sex:

shu

Test Name: HbA1c
Result: 6.61 %
05/11/2021 10:27

date	LOT-NO	Result	Range	mean	done by
	286103		5-6-8-2	7.0	
15/11/21	286103	6.5	5-6-8-2	7.0	shu
16/11/21	286103	6.6	5-6-8-2	7.0	shu
17/11/21	286103	6.5	5-6-8-2	7.0	shu
18/11/21	286103	6.6	5-6-8-2	7.0	shu
19/11/21	286103	6.8	5-6-8-2	7.0	shu
20/11/21	286103	6.6	5-6-8-2	7.0	shu
21/11/21	286103	6.7	5-6-8-2	7.0	shu
22/11/21	286103	6.6	5-6-8-2	7.0	shu
23/11/21	286103	6.8	5-6-8-2	7.0	shu
24/11/21	286103	6.6	5-6-8-2	7.0	shu
25/11/21	286103	6.6	5-6-8-2	7.0	shu
26/11/21	286103	6.3	5-6-8-2	7.0	shu
27/11/21	286103	6.5	5-6-8-2	7.0	shu
29/11/21	286103	6.6	5-6-8-2	7.0	shu
30/11/21	286103	6.5	5-6-8-2	7.0	shu

Test Report

Patient Name:
Patient ID:
Age:
Sex:

shu

Test Name: HbA1c
Result: 6.49 %
06/11/2021 08:55

Test Report

Patient Name:
Patient ID:
Age:
Sex:

Test Name: HbA1c
Result: 7.03 %
03/11/2021 09:28

HBAIC. October-21

Date	Lot No.	Result	Range	mean	done by	HD sig
28/10/21	286101	8.2	5.6-8.2	7.0	Meaning	
29/10/21	286101	7.6	5.6-8.2	7.0	skn	
30/10/21	286101	8.2	5.6-8.2	7.0	skn	
31/10/21	286101	6.3	5.6-8.2	7.0	skn	
1/11/21	286101	6.4	5.6-8.2	7.0	skn	
2/11/21	286101	6.3	5.6-8.2	7.0	skn	
3/11/21	286103	-	5.6-8.2	7.0	"	
4/11/21	286103	6.3	5.6-8.2	7.0	skn	
5/11/21	286103	6.7	5.6-8.2	7.0	skn	
6/11/21	286103	6.8	5.6-8.2	7.0	skn	
7/11/21	286103	7.0	5.6-8.2	7.0	skn	
8/11/21	286103	7.5	5.6-8.2	7.0	skn	
9/11/21	286103	7.8	5.6-8.2	7.0	skn	
10/11/21	286103	8.1	5.6-8.2	7.0	skn	
11/11/21	286103	8.1	5.6-8.2	7.0	skn	
12/11/21	286103	8.1	5.6-8.2	7.0	skn	
13/11/21	286103	7.5	5.6-8.2	7.0	skn	
14/11/21	286103	6.8	5.6-8.2	7.0	skn	
15/11/21	286103	7.0	5.6-8.2	7.0	skn	
16/11/21	286103	7.5	5.6-8.2	7.0	skn	
17/11/21	286103	7.8	5.6-8.2	7.0	skn	
18/11/21	286103	8.1	5.6-8.2	7.0	skn	
19/11/21	286103	8.1	5.6-8.2	7.0	skn	
20/11/21	286103	7.5	5.6-8.2	7.0	skn	
21/11/21	286103	6.6	5.6-8.2	7.0	skn	
22/11/21	286103	6.3	5.6-8.2	7.0	skn	
23/11/21	286103	5.9	5.6-8.2	7.0	skn	
24/11/21	286103	7.9	5.6-8.2	7.0	skn	
25/11/21	286103	6.2	5.6-8.2	7.0	skn	
26/11/21	286103	6.5	5.6-8.2	7.0	skn	
27/11/21	286103	6.4	5.6-8.2	7.0	skn	
28/11/21	286103	6.7	5.6-8.2	7.0	skn	

HBAIC November-21

Date	Lot No.	Result	Range	mean	done by	HD sig
1/11/21	286103	7.0	5.6-8.2	7.0	skn	
2/11/21	286103	6.2	5.6-8.2	7.0	skn	
3/11/21	286103	7.0	5.6-8.2	7.0	skn	
4/11/21	286103	6.6	5.6-8.2	7.0	skn	
5/11/21	286103	6.4	5.6-8.2	7.0	skn	
6/11/21	286103	6.7	5.6-8.2	7.0	skn	
7/11/21	286103	6.6	5.6-8.2	7.0	skn	
8/11/21	286103	6.8	5.6-8.2	7.0	skn	
9/11/21	286103	6.6	5.6-8.2	7.0	skn	
10/11/21	286103	6.6	5.6-8.2	7.0	skn	
11/11/21	286103	6.9	5.6-8.2	7.0	skn	
12/11/21	286103	6.6	5.6-8.2	7.0	skn	
13/11/21	286103	6.6	5.6-8.2	7.0	skn	
14/11/21	286103	6.5	5.6-8.2	7.0	skn	
15/11/21	286103	6.6	5.6-8.2	7.0	skn	
16/11/21	286103	6.5	5.6-8.2	7.0	skn	
17/11/21	286103	6.8	5.6-8.2	7.0	skn	
18/11/21	286103	6.6	5.6-8.2	7.0	skn	
19/11/21	286103	6.8	5.6-8.2	7.0	skn	
20/11/21	286103	6.6	5.6-8.2	7.0	skn	
21/11/21	286103	6.7	5.6-8.2	7.0	skn	
22/11/21	286103	6.6	5.6-8.2	7.0	skn	
23/11/21	286103	6.8	5.6-8.2	7.0	skn	
24/11/21	286103	6.6	5.6-8.2	7.0	skn	
25/11/21	286103	6.6	5.6-8.2	7.0	skn	
26/11/21	286103	6.3	5.6-8.2	7.0	skn	
27/11/21	286103	6.5	5.6-8.2	7.0	skn	
28/11/21	286103	6.6	5.6-8.2	7.0	skn	
29/11/21	286103	6.6	5.6-8.2	7.0	skn	
30/11/21	286103	6.5	5.6-8.2	7.0	skn	

Doc

December - 2021

20

HBAIC

date	LOT-NO	Result	Range	mean	done-by	sig
1/12/21	286103	6.2	5.6-8.2	7.0	sh	Ans
2/12/21	286103	7.2	5.6-8.2	7.0	sh	Ans
3/12/21	286103	6.8	5.6-8.2	7.0	sh	Ans
4/12/21	286103	7.0	5.6-8.2	7.0	sh	Ans
5/12/21		7.2	5.6-8.2	7.0	mej	Ans
6/12/21	286103	7.3	5.6-8.2	7.0	sh	Ans
7/12/21	286103	6.8	5.6-8.2	7.0	sh	Ans
8/12/21	286103	7.4	5.6-8.2	7.0	sh	Ans
9/12/21	286103	7.2	5.6-8.2	7.0	KPR	Ans
10/12/21	"	7.4	5.6-8.2	7.0	sh	Ans
11/12/21	"	6.8	5.6-8.2	7.0	mej	Ans
12/12/21	"	7.1	5.6-8.2	7.0	sh	Ans
13/12/21	"	6.6	5.6-8.2	7.0	sh	Ans
14/12/21	"	6.6	5.6-8.2	7.0	sh	Ans
15/12/21	"	6.3	5.6-8.2	7.0	sh	Ans
16/12/21	"	6.6	5.6-8.2	7.0	sh	Ans
17/12/21	"	5.7	5.6-8.2	7.0	sh	Ans
18/12/21	"	5.9	5.6-8.2	7.0	sh	Ans