

Installation Qualification

For

**Turbodyne-SC**

Turbidimetry ● Nephelometry

**S.NO: P15070195**

**PACE HOSPITALS**

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

## **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

1) Instrument Origin and Identification

Turbodyne-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:

Satisfies

2) Instrument Specification

3) Turbodyne-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: *Satisfying*

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: *Satisfying*

**6) Instrument Safety**

**Manufacturer Safety Recommendations:**

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

Comments:

*Sensitive*

7) Assembly and Installation

Assembled and installed By: <i>Dinesh</i>	User: <i>PAGE</i>	Specialized Engineer: <i>Mr. Suraj</i>
Installation Procedure:	OK ✓	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*

**8) Summary Report**

Instrument Name: *Turbidimeter - SC*

Sr. No.: *PI5070195*

Manufacturer: *Tuip Diagnostics Pvt Ltd*

Assessment of complete Installation Qualification:

No Deviations:

Deviations:

Deviation	Impact on Operation	Justification for Acceptance
<i>/</i>	<i>/</i>	<i>/</i>
<i>/</i>	<i>/</i>	<i>/</i>
<i>/</i>	<i>/</i>	<i>/</i>
<i>/</i>	<i>/</i>	<i>/</i>

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: *substituted*

Operation  
Qualification For  
Turbodyne-SC  
Turbidimetry ● Nephelometry

**S.NO: P15070195**

**PACE HOSPITALS**

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



## **Contents**

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

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	Fail	Date	Signed
Earthing	✓			DW
UPS Supply	✓			DW

Comments: See list

2) Pre-Run Checks

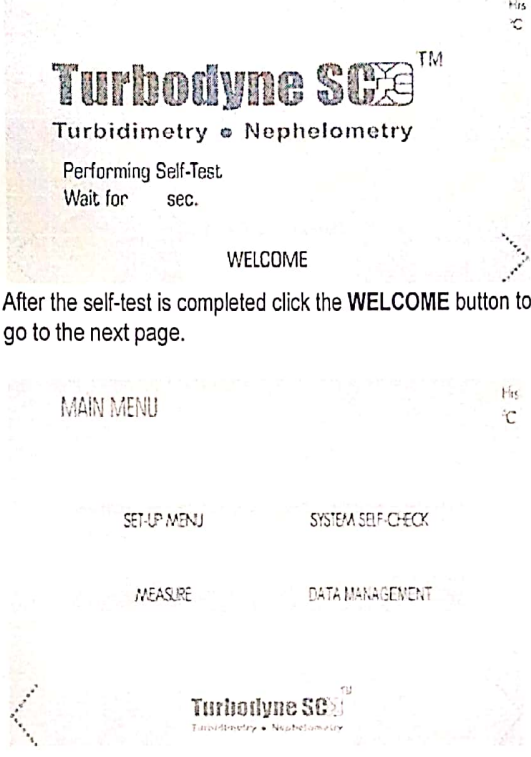

Turbodyne-SC

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

Comments: \_\_\_\_\_

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>  <p>After the self-test is completed click the <b>WELCOME</b> button to go to the next page.</p>		

Comments:

*satisfied*

4) Training

Trained Operators	Read Operator Manual	Read SOP	Practical Training	Authorizing Signature
K. Narayana	Yes	Yes	Yes	DH
Aravesh	Yes	Yes	Yes	DH
Pooja	Yes	Yes	Yes	DH
Ruthika	Yes	Yes	Yes	DH
Prakash	Yes	Yes	Yes	DH

Comments: Satisfactory

5) Summary Report

Instrument Name: TUNBODWHE - 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:	MR. Dinesh	Date:	9/1/2017
Deviations Approved By:	-	Date:	-
IQ Approved By:	MR. Sunny	Date:	9/1/2017

Comments: Satisfied

# Performance Qualification

For

## Turbodyne-SC

Turbidimeter Nephelometry

**S.NO: P15070195**

**PACE HOSPITALS**

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

## Contents

Performance Check

Triggering Factor

Calibration

Re-Calibration

Routine Maintenance

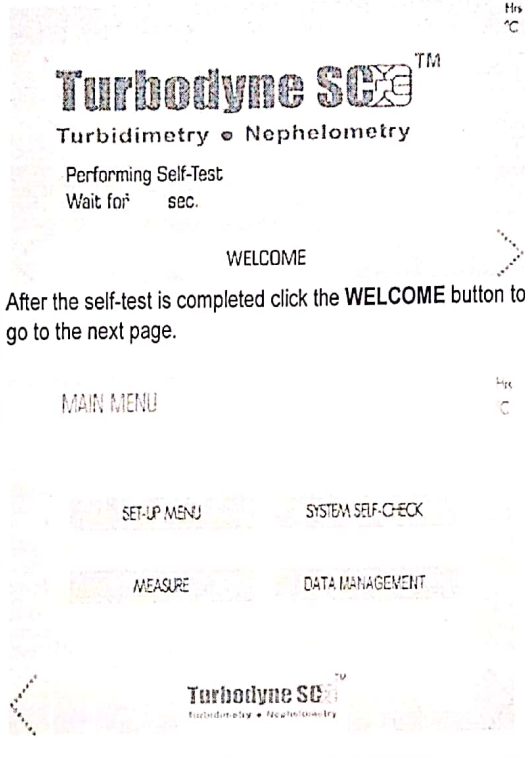
Safety Tests

Summary Report

Performance

1) Performance Check

Turbodyne SC

Functional Test	Acceptance Criteria	Pass	Fail
<p>Instrument power ON</p>	<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 <b>WELCOME</b> button to go to the next page.</p>	<p style="text-align: center;">✓</p>	

Comments:

*scutis*



## 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		<input checked="" type="checkbox"/>	
Timer calibration check				

Comments:- *substantia*

## 4) Re-Calibration

Calibration	Suggested Time	Not Done	Ok	Not Ok
Temperature calibration check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Timer calibration check	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Comments:- *\_\_\_\_\_*

### 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 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	Fail	Date	Signed
Earthing	<i>✓</i>			<i>[Signature]</i>
UPS Supply	<i>✓</i>			<i>[Signature]</i>

Comments: *substituted*

**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:	←	Date:	—
IQ Approved By:	<i>Mr. Sunny</i>	Date:	<i>9/1/2017</i>

Comments: *Satisfied*

*Aruni*  
*9/1/2017*

# 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:  $\pm 1$  °C of 37 °C

OBSERVATION:


MODULE	DESCRIPTION	READINGS					RANGE	ERROR OBSERVED	RESULT
		1	2	3	4	5			
1	TEMP IN °C	36.7	36.9	37.9	36.8	37.1	< $\pm 1$ °C	< $\pm 0.2$ °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

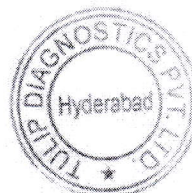
6) CONCLUSION & REMARKS:

- 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	$\pm 0.1$ °C	GATECH/GOA/01/21/MT1801
2	DIGITAL STOP WATCH	901194005647/NIVA	$\pm 0.07$ 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
2/10/21	286101	6.5	5.6-8.2	7.0	Shivamm
04/10/21	286101	8.2	5.6-8.2	7.0	Narsing
05/10/21	286101	7.6	5.6-8.2	7.0	shu
06/10/21	286101	8.2	5.6-8.2	7.0	shu
07/10/21	286101	8.3	5.6-8.2	7.0	shu
08/10/21	286101	6.4	5.6-8.2	7.0	shu
09/10/21	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

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

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

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

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

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

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

Date	Lot No.	Result	Range	Mean	Done by	HOD Sign
01/09/21	286101	6.9	5.6-8.2	7.0	popjan	[Signature]
02/09/21	286101	6.77	5.6-8.2	7.0	KL	[Signature]
03/09/21	286101					
04/09/21						
05/09/21						
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	[Signature]
12/9/21	286103	6.4	"	7.0	Naveen	[Signature]
14/9/21	286103	6.9	5.6-8.2	7.0	shu	[Signature]
15/9/21	286103	6.5	5.6-8.2	7.0	shu	[Signature]
16/9/21	286103	7.3	5.6-8.2	7.0	shu	[Signature]
17/9/21	286103	7.1	5.6-8.2	7.0	shu	[Signature]
18/9/21	286103	6.5	5.6-8.2	7.0	shu	[Signature]
19/09/21	286103	6.4	5.6-8.2			[Signature]
20/09/21	286103	7.2	5.6-8.2			[Signature]
21/9/21	286103	7.7	5.6-8.2	7.0	pralash	[Signature]
22/9/21	286103	7.5	5.6-8.2	7.0	pralash	[Signature]
23/09/21	286103	6.4	5.6-8.2	7.0		[Signature]
24/09/21	286103	6.9	5.6-8.2	7.0	gayathri	[Signature]
25/09/21	286103	6.7	5.6-8.2	7.0		[Signature]
26/09/21	286103	7.2	5.6-8.2	7.0		[Signature]
27/09/21	286103	6.8	5.6-8.2	7.0	gayathri	[Signature]
28/09/21	286103	6.5	5.6-8.2	7.0	shu	[Signature]
29/09/21	286103	6.5	5.6-8.2	7.3	shu	[Signature]
30/09/21	286103	6.5	5.6-8.2	7.3	shu	[Signature]

# IAC

HbA1c

November - 21

19

date	LOT-NO	Result	Range	mean	done by	HDD Signature
	286101		5.6-8.2	7.0		
11/1/21	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	
3/11/21	286103	6.6	5-6-8-2	7.0	shu	

Test Report  
 Patient Name:  
 Patient ID:  
 Age:  
 Sex:  
 .....  
 Test Name: HbA1c  
 Result: 6.28 %  
 02/11/2021 09:18

Test Report  
 Patient Name:  
 Patient ID:  
 Age:  
 Sex:  
 .....  
 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:  
 .....  
 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	7.0	5.6-8.2	7.0	skn	
10/11/21	286103	7.8	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	8.1	5.6-8.2	7.0	skn	
18/11/21	286103	8.1	5.6-8.2	7.0	skn	
19/11/21	286103	7.5	5.6-8.2	7.0	skn	
20/11/21	286103	6.6	5.6-8.2	7.0	skn	
21/11/21	286103	6.2	5.6-8.2	7.0	skn	
22/11/21	286103	5.9	5.6-8.2	7.0	skn	
23/11/21	286103	7.9	5.6-8.2	7.0	skn	
24/11/21	286103	6.2	5.6-8.2	7.0	skn	
25/11/21	286103	6.5	5.6-8.2	7.0	skn	
26/11/21	286103	6.4	5.6-8.2	7.0	skn	
27/11/21	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	6.8	5.6-8.2	7.0	skn	
17/11/21	286103	6.6	5.6-8.2	7.0	skn	
18/11/21	286103	6.6	5.6-8.2	7.0	skn	
19/11/21	286103	6.6	5.6-8.2	7.0	skn	
20/11/21	286103	6.6	5.6-8.2	7.0	skn	
21/11/21	286103	6.6	5.6-8.2	7.0	skn	
22/11/21	286103	6.6	5.6-8.2	7.0	skn	
23/11/21	286103	6.6	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	6.6	5.6-8.2	7.0	skn	
27/11/21	286103	6.6	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	sh
3/12/21	286103	6.8	5.6-8.2	7.0	sh	sh
4/12/21	286103	7.0	5.6-8.2	7.0	sh	Ans
5/12/21						
6/12/21	286103	7.2	5.6-8.2	7.0	mej	Ans
7/12/21	286103	7.3	5.6-8.2	7.0	sh	Ans
8/12/21	286103	6.8	5.6-8.2	7.0	sh	Ans
9/12/21	286103	7.4	5.6-8.2	7.0	sh	Ans
10/12/21	"	7.2	5.6-8.2	7.0	KPR	Ans
11/12/21	"	7.4	5.6-8.2	7.0	sh	Ans
12/12/21	"					
13/12/21	"	6.8	5.6-8.2	7.0	mej	Ans
14/12/21	"	7.1	5.6-8.2	7.0	sh	Ans
15/12/21	"	6.6	5.6-8.2	7.0	sh	Ans
16/12/21	"	6.6	5.6-8.2	7.0	sh	Ans
17/12/21	"	6.3	5.6-8.2	7.0	sh	Ans
18/12/21	"	6.6	5.6-8.2	7.0	sh	Ans
19/12/21	"					
20/12/21	"	5.7	5.6-8.2	7.0	sh	Ans
21/12/21	"	5.9	5.6-8.2	7.0	sh	Ans