403, Leela Business Park, Andheri Kurla Road, Andheri East, Mumbai – 400059 T: +91 22 6787 9300 F: +91 22 6787 9333

Calibration Certificate

The below mentioned instrument has been calibrated and tests performed to check the system performance.

Instrument

: VITROS V5600

() Seriai No

: 5600 0703

Customer Name

: Central Clinical Laboratory Pravara Rural Hospital-Loni

Calibration performed on

: 29/11/2021

The system's calibration includes optics calibration and checking the reproducibility performance of the instrument as per the guidelines provided by the manufacturer.

Next Calibration will be performed in MAY 2022.

FOortho Clinical Diagnostics India Pvt Ltd.

Mitesh Shah

Date: 29/11/2021

Sr.Zonal Service Manager-Ortho Care Pune

403, Leela Business Park, Andheri Kurla Road, Andheri East, Mumbai – 400059

T: +91 22 6787 9300 F: +91 22 6787 9333

Calibration Certificate

The below mentioned instrument has been calibrated and tests performed to check the system performance.



Instrument

: VITROS V5600

Serial No

: 5600 1041

Customer Name

: Central Clinical Laboratory Pravara Rural Hospital-Loni

Calibration performed on

: 26/11/2021

The system's calibration includes optics calibration and checking the reproducibility performance of the instrument as per the guidelines provided by the manufacturer.



Next Calibration will be performed in MAY 2022.

For Ortho Clinical Diagnostics India Pvt Ltd.



Date: 26/11/2021

Sr.Zonal Service Manager-Ortho Care Pune

403, Leela Business Park, Andheri Kurla Road, Andhen East, Mumbai 400059 T:+91 22 6787 9300

F: +91 22 6787 9333

Calibration Certificate

The below mentioned instrument has been calibrated and tests performed to check the system performance.

Instrument

: VITROS V5600

Serial No

: 5600 0703

Customer Name

: PRAVARA MEDICAL TRUST, LONI

(BIOCHEMISTRY DEPT).

Calibration performed on

: 29/11/2021

The system's calibration includes optics calibration and checking the reproducibility performance of the instrument as per the guidelines provided by the manufacturer.

Next Calibration will be performed in MAY 2022.

For Ortho Clinical Diagnostics India Pvt Ltd.

Mitesh Shah

Date: 29/11/2021 Approved By

Sr. Zonal Service Manager-Ortho Care Pune

Registered Office: 403, Leela Business Park, Andheri Kurla Road, Andheri East, Mumbai - 400059 | T: -91 22 6787 9300

403, Leela Business Park, Andheri Kurla Road, Andheri East, Mumbai 400059 T: +91 22 6787 9300

F: +91 22 6787 9333

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: VITROS V5600

Serial No

: 5600 1041

Customer Name

: PRAVARA MEDICAL TRUST, LONI

(BIOCHEMISTRY DEPT.)

Calibration performed on

: 26/11/2021

The system's calibration includes optics calibration and checking the reproducibility performance of the instrument as per the guidelines provided by the manufacturer.

Next Calibration will be performed in MAY 2022.

For Ortho Clinical Diagnostics India Pvt Ltd.

Mitesh Shah

Sr.Zonal Service Manager-Ortho Care Pune

Date: 26/11/2021

Approved By
5 P. Jour

Incharge CCL-Biochemistry PMT.RMC.Loni

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egistered Office: 403, Leela Business Park, Audheri Kurla Road, Andhen East, Mumbai - 400059 | T: -91 22 6787 9300 | F: -91 22 6787 9333 | CIN: U51397MH2015F1C262646 UII

$\underline{\mathbf{Service}\ \mathbf{Report}}$

Ortho Clinical Diagnostics

INDIA Pvt. Ltd.

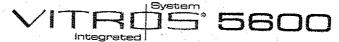
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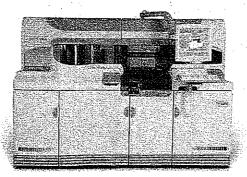
	Report No: 3624
Address: At post loni, Tal. Kahata, Dist. Ahmednagas. Nature of Call:	Warranty AMC/CMC Charge Call Preventive Maintenance
☐ Telephone ☐ eConn Proactive ☐ UPS ☐ Printer	
Observed damage before service:	Instrument Particulars:
NA	Model Vitros 5600
	J Number 356001041
Problem reported:	Serial Number 56001041
Description: Preventive Maintenance: Econ alert for compressor of intellicheck. Modification # F6 Suftware update 3.7.1 Modification # F6 wear pads. Call Details: Complaint Forwarded by: Self Complaint Call Date: 22/11/2021 Time: 20:15 Travel Duration (To & Fro): 2 1 Hr. Call Attended Date: 25/11/2021 Time: 17:10 Start Time: 25/11/2021 17:15 End Time: 26/11/2021 19:00 Actual Work Hours: 14 Hr. 15 mins. + 2 Hrs. Solved over Phone. Date: Time: Diagnosis: Software update v.3.7.1. Mon# E6, replace cur Preventive: maintenance. Action taken/Action required: Dare backup. Updated slw version to 3.7.1. Eleaned all the modules. Dane adjustment	Cleaned the system.
For Engineer Job complete Job incomplete Satisfied Unsatisfied Comments: Comments: Engineer's Na Engineer's Comments: For Engineer Engineer's Na Engineer's Comments: For Engineer Engineer's Na Engineer's Comments: For Engineer's Na Engineer's Na Engineer's Signature & Date	me: Miterh C. Shah Kedar More de: AINFE 09 AINFE 10 System working ok. mature & Date - 14114) (26/11/20)

INSTALLATION QUALIFICATION

For

VITROS® 5600 INTEGRATED SYSTEM





Manufactured by:

Ortho Clinical Diagnostics, Inc., US

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IX	System Certification	17
	Appendix	
	I. Installation Certificate	7

I. APPROVAL OF THE IQ PROCEDURE:

Both Central Clinical Laboratory Pravara Rural Hospital and Ortho Clinical Diagnostics are responsible for installation of VITROS® 5600 Immunodiagnostic System bearing Sr. No J56001041 in Central Clinical Laboratory, Pravara Rural Hospital as per the attached protocol.

Protocol Performed By: Ortho Clinical Diagnostics Representative

Name

Mitesh Shah

Signature:

Designation

Sr. Zonal Manager

Date: 05/12/2020

Company

: Ortho Clinical Diagnostics

Validation Team from Central Clinical Laboratory, Pravara Rural Hospital:

Name

: Mo. K. H. Hotkar

Signature:

Designation

: ASSO. POO.P.

Department

: Biochemierby

Name

: 170 Bhawao. S.R.

Signature:

Designation

: 60 Les Tech.

Date: 05/11/2020

Department

: Biochemistoy

Customer Authorizations:

Name

Dr. S. N. JANGLE

Designation:

Professor and Head Bioclemisty

Signature: S. NJ once

Date

05/12/2020

ONJ-413736 (M.S.)INDIA

II. INSTRUCTIONS:

- 1. This document is to be completed at the time the system is installed to its location and set up for operation.
- 2. An authorized Ortho Clinical Diagnostics representative will check the system and enter the specific data as outlined in the appropriate Installation Qualification.
- 3. Employees of **Central** Clinical Laboratory Pravara Rural Hospital will verify each result and sign in the each page. The member of the validation team will carry out this procedure.
- ALL deviations from normal specification during installation will be noted under CONNENTS.

 All resolution to such problems will also be noted in the COMMENTS section. Additional space is provided at the end of this protocol for the same.

III. SCOPE

This Installation Qualification protocol will be performed on the VITROS® 5600 Immunodiagnostic System, and the Sr. No. **J56001041** located at Central Clinical Laboratory Pravara Rural Hospital.

This protocol will define the documentation that will be used to evaluate the instrument's installation in accordance with the manufacturer's specifications and intended use. Successful completion of this protocol will verify that the instrument identified has been installed in accordance with the intended usage.

installation thecks will also be performed to verify that the Instrument has been installed with proper connections and utilities.

Trained, knowledgeable personnel will perform Installation Qualification studies.

Any exceptional conditions encountered during the qualification studies will be identified for review. Exceptional conditions will be investigated, and the appropriate course of action determined. All documents will be initialed and dated.

IV. ANCILLARY INFORMATION

a. Certification of Purchase Order Compliance

I certify to the best of my knowledge, the instrument VITROS® 5600 Immunodiagnostic System and Sr. No. J56001041 installed on 05/12/2020.

Verified By: Mitesh Shah

Date:05/12/2020

b. Utilities

Sr. No	Utility		Verified by & date
1.	Environmental condition: As per requirement (To be free from Dust, Electrical & magnetic Interferences and free from vibration)	Yes / No	Mitesh Shah 05/12/2020
2.	Adequate space for installation: (Length 110 inches x Width 35 inches x Height 84 inches)	Yes / No	Mitesh Shah 05/12/2020
3.	Electrical Outlets: Actual Voltage on site [200 Vac – 240 Vac] Electrical Input: Voltage supplied through ON LINE UPS (232Vac @ 50Hz frequency, Earthing < 2.0Vac)	Yes / No	Mitesh Shah 05/12/2020
4.	 Capacities: 90 samples (80 Routine positions & 10 STAT positions are available) 150 Reagent Positions are available. 	Yes / No	Mitesh Shah 05/12/2020
5.	Temperature: 15° C to 30° C 15% to 75% relative humidity	Yes / No	Mitesh Shah 05/12/2020

The instrument has been verified for the following:

Sr. No.	Verification		Verified by & date
1.	Equipment is identified	Yes / No	Mitesh Shah 05/12/2020
2.	Manufacturer's specifications are included	Yes / No	Mitesh Shah 05/12/2020
3	Accessories / Consumables are listed	Yes/No.	Mitesh Shah
4.	Equipment manual from the manufacturer is documented	Yes / No	Mitesh Shah 05/12/2020
5.	Manufacturer's Certificate of compliance attached	Yes / No	Mitesh Shah 05/12/2020

V INSTALLATION QUALIFICATION:

A. Equipment Description

The VITROS® 5600 Integrated System is a Random access, walk away system intended for use in the *in vitro* quantitative, semi-quantitative, and qualitative measurement of a variety of analytes of clinical interest, using VITROS Chemistry Products MicroSlides, VITROS Chemistry Products MicroTip reagents and VITROS Immunodiagnostic Products Reagents.

Instrument Identifi	catio	1 Common side on the first common Common side in the common state of the common side of t	Verified by	Date
Equipment Name	•	Automated Integrated System	Mitesh Shah	05/12/2020
Model	•	VITROS® 5600	Mitesh Shah	05/12/2020
Manufacturer	:	Ortho Clinical Diagnostics, Inc., US	Mitesh Shah	05/12/2020
Marketed by	:	Ortho Clinical Diagnostics India Pvt. Ltd.	Mitesh Shah	05/12/2020
Serial Number	;	56001041	Mitesh Shah	05/12/2020
Lab Id	•	Biochemistry Analyzer No. 2	Mitesh Shah	05/12/2020
Software Name	:	QNX	Mitesh Shah	05/12/2020
Software Version:		.V	Mitesh Shah	05/12/2020
Size (in inches)	•	Adequate for installation: (Length 170 x Width 83 x Height 84).	Mitesh Shah	05/12/2020
Power	•	1600W@ 50Hz of 220Vac – 240Vac	Mitesh Shah	05/12/2020

B. Accessories/Consumables

The following accessories were supplied with the instrument. Check $(\sqrt{})$ 'verified by' in case they are found to be in order.

Description	Quantity	Verified	
2 of the state of	Quantity	vermed	Date
User Training Manual	1	1	05/12/2020
Application Software-Revelation	1	7	05/12/2020
Universal Sample Tray	9	V	05/12/2020
Backup DVD R/w	3	V	05/12/2020
Printer Cable	1	V	05/12/2020
Printer Software	1	1	05/12/2020
Power Cords	3	V	05/12/2020
Printer	1	٧	05/12/2020
Air filter	1	V	05/12/2020
Waste can 5L	1	V	05/12/2020

C. List of Manuals:

Ortho Clinical Diagnostics has supplied following manual.

D. Maintenance:

The instrument listed within this document will be placed under the control of the purchasing institution with respect to proper maintenance procedures as detailed in the Training and Reference Guide. The maintenance procedures will be filed separately.

A trained analyst using the manuals provided with the instrumentation can perform simple maintenance. Upon expiration of the warranty period Ortho Clinical Diagnostics offers several levels of Maintenance Agreements and Performance Testing services to assist you in maintaining GLP/GMP compliance. Contacting your local representative and requesting the additional Service Agreement can supply additional information.

VI. INSTALLATION PROCEDURE

(The following steps Performed at the time of original installation at the initial location)

- 1. Locating & unpacking the instrument.
- Z. Kearfix/verity the circuits boards & CPU
- 3. Nominal Line voltage frequency selection of transformer.
- 4. Load Supply & Power ON the system.
- 5. System Configuration.
- 6. Systems Tests & Adjustments.
- 7. Subsystems Performance Verification & calibration
- 8. Setting and installing printer.

The Above-mentioned steps has completed successfully by trained field Engineer as described below.

VI.1 Locating & unpacking the VITROS® 5600 instrument:

(\ServicePublications\5600\5600Service\J32845_Unpack-Install_Intact\J32845.pdf)

- Check the Tip & Tell Label.
- Verify the serial no / J number of the system match those indented for delivery.
- Place the pallet in a position with a minimum of 7 m (24 ft.) of clearance in front of the end with the LABELS
- Remove the STRAPPING and the RAMPS from the pallet..
- Assemble the 2 piece RAMP and hok the RAMPS to the end of the pallet
- Move the system down the ramps. Do the same for the second half of the system.

Page 11 of 17

- Place the instrument in the lab leveled floor.
- Join the two halves of the system as per manufacturer's instructions.
- Remove the packing material from
 - VERSATIP supply carousel
 - Under side of sample supply cover
 - SR metering Nozzle
 - Well Wash Nozzles
 - Beneath SR Pumps
 - Luminometer & Micro ImmunoAssay VERSATIP ring
 - Supply 4 load doors & Reagent Well shuttle
 - SR carousel
 - Remove the wire Tie, tape & Foam from UIA REAGENT METERING ARM.
 - Remove the moisture separators behind the compressor installed on it bracket.
 - Remove the Foam supporting from the compressor.

VI.2 Reaffix/verify the circuits boards & CPU:

(\ServicePublications\5600\5600Service\J32845_Unpack-Install_Intact\J32845.pdf)

- Open the right side front door and open the card rack metal cover.
- Remove the RC labeled DSP boards and reaffix it back.
- Open the right side rear panel and open the card rack metal cover.
- Remove the UC labeled DSP boards and reaffix it back.
- Open the Middle front door and open the CPU top cover & verify the boards.

VI.3 Nominal Line voltage / frequency selection of transformer:

(\ServicePublications\5600\5600Service\J32845_Unpack-Install_Intact\J32845.pdf)

- Connect the Primary T2_H6 on Label no H6 for 0Vac.
- Connect the Primary T2_H# on label no H2 for 230Vac.
- Connect the Secondary T2_X1 on label no X1 for 230Vac.
- Connect the Secondary T2_X# on label no X2 for 200Vac.

Connect the Secondary T2_X3 & T2_X3 on label no X3 for 0Vac.

VI.4 Load Supply & Power ON the system:

(\ServicePublications\5600\5600Service\J32845_Unpack-Install Intact\J32845.pdf)

- VersaTip & Sample Trays.
- Signal Reagent & Universal Reagent.
- Check the supply and Earthing voltage.
- Switch ON the Instrument.

VI.5 System Configuration.: (\6902906_3600-RefGd_Ltr-EN.pdf)

Click on Set Access Level from Status Menu and type password

Option -> Configure System ->

• Configure Current Date & Time:

Select the format and set the Date and Time.

Configure System Name & J Number

Enter the System Name & J number.

Configure the Screen Saver

Set the Screen saver delay time.

• Configure the Site Temperature

Set the site temperature tolerance for the nominal site temperature.

Status -> Diagnostics -> Select the required task

Touch Screen Calibration:

Touch "Calibrate Touch screen" at the bottom of the DIAGNOSTICS Menu.

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Touch center of the target appear on the screen.

When you have finished, touch "Save Calibration"

• Country Code Selection:

Touch "Diagnostics" then Select "V-Docs"

Press [Alt] and [S] to Access the service Scripts.

Select "Configure Country Code"

Select the appropriate country from the List.

Select "Set country code"

Touch "Return".

Touch "Shut Down". Configure the Language from the System Menu button.

Touch "Final Shutdown". Then reset the system.

VI.6 System Tests and Adjustments: (\6902906 3600-RefGd Ltr-EN.pdf)

Adjustments are diagnostic functions used to fine-tune or define various system Parameters to ensure proper system performance. With the exception of the IRS Calibration, all other adjustments are available only to trained service personnel.

- MicroImmunnoassay (µIA) Metering
- MicroSensor
- MicroWell Reagent Metering
- MicroWell Wash Metering
- Signal Reagent Metering
- Luminometer
- Scrap Run

VI.7 Subsystems Performance Verification & Calibration: (\.6902906_3600-RefGd_Ltr-EN.pdfpdf)

- Well Wash Dispense & Aspiration Calibration.
- Signal reagent Dispense calibration.
- 30PSI & 10PSI calibration.
- Soak Volume Verification
- IRS Calibration

VI.8 Setting and installing printer: (\.6902906_3600-RefGd_Ltr-EN.pdf)

- Remove the Packing material form the printer and assemble the accessories.
- Connect the USB cable and Switch ON the Printer.
- Set report control and print the test page.

VII. Installation Report:

Activity	Observation	Remarks	Verified By / Date
Locating & unpacking the instrument.	Instrument was located and unpacked	Ok	Mitesh Shah 05/12/2020
Reaffix/verify the circuits boards & CPU	Reaffixed/verified the circuits boards & CPU	Ok	Mitesh Shah 05/12/2020
Nominal Line voltage frequency selection of transformer.	Nominal Line voltage frequency was sated.	Ok	Mitesh Shah 05/12/2020
Load Supply & Power ON the system.	Supply Loaded & Powered ON the system.	Ok	Mitesh Shah 05/12/2020
System Configuration.	System was configured as per the requirement.	Ok	Mitesh Shah 05/12/2020
System Tests and Adjustments	System Tested and Adjustments done.	Ok	Mitesh Shah 05/12/2020
Subsystems Performance Verification & calibration	Subsystems Performance Verified & calibrated	Ok	Mitesh Shah

	Clinical	-	
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			~~_;~~

	successfully.		T
			05/12/2020
Setting and installing printer	Printer was installed and connected to the system.	Ok	Mitesh Shah
	Townselve to the System.		05/12/2020

VIII.	COMMENTS	:

Deviation:

Nil

Impact On Operation:

Nil

Corrective Action:

Nil

IX. SYSTEM CERTIFICATION

Study data has determined that the system described in this document either meets all criteria outlined in this Installation Qualification Protocol, or exceptional conditions have been identified and documentation included. Exceptional conditions, if any, have been / not been addressed. The system is ready for Operation Qualification.

Protocol Performed By: Ortho Clinical Diagnostics Representative

Name

Mitesh Shah

Signature:

Designation

Sr. Zonal Manager

Date: 05/12/2020

Company

Ortho Clinical Diagnostics

Validation Team from Central Clinical Laboratory, Pravara Rural Hospital:

Name

: M& KIN, HOTKER

Signature:

Designation

: ASSO POOP.

Date: 05/12/2016

Department

: Brochewister

Name

: Mo Bhowar s.p.

Signature:

Designation

: 80. lab Teeb.

Date: osly wo

Department

: Broch emodel

Customer Authorizations:

Name

Do. s. H. Jangle Str

Designation:

boot & Head Blocheming.

Signature

S. N. Jayle

Date

: 5/12/2020

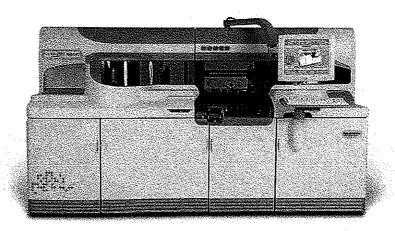
PROFESSOP & HEAD
DEPARTMENT OF BIOCHEMISTRY
RURAL MEDICAL COLLEGE
LONI-413736, M.S. JINDIA

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OPERATIONAL QUALIFICATION

For

VITROS® 5600 INTEGRATED SYSTEM



Manufactured by:
Ortho Clinical Diagnostics, Inc., US

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IV	Operational Qualification	6
IV.I	Operational Procedure	7
· V	Operational Qualification Report	21
VI	Comments	23
VII	System Certification	24

I. APPROVAL OF THE OQ PROCEDURE:

Both Central Clinical Laboratory Pravara Rural Hospital and Ortho Clinical Diagnostics are responsible for installation of VITROS® 5600 Immunodiagnostic System bearing Sr. No **J5600-0703** in Central Clinical Laboratory, Pravara Rural Hospital as per the attached protocol.

Protocol Performed By:	Ortho Clinical	Diagnostics	Representative
------------------------	----------------	-------------	----------------

.

Name

Rathod Vijaykumar

Signature:

Designation

Territory Manager

Date: 07/07/2018

Company

Ortho Clinical Diagnostics

Validation Team from Central Clinical Laboratory, Pravara Rural Hospital:

Name

: Ma K, N, Hotkaa.

Signature: Www

Designation

: ASSO. POOP.

Date: 07 07 2018

Department

roteinedosia:

Name

: Mr. Bhowar s.R.

Signature :

Designation

: SE. Lab. Technician

Date: 07/07/2017

Department

Customer Authorizations:

Name

: 82.3. H. Jarate Sio

Designation:

Poot 4 Head Brochemistry

Signature

5-45 ouly

Date

P102 40170

PROFESSOP & HEAD
DEPARTMENT OF BIOCHEMISTRY
RURAL MEDICAL COLLEGE
LÖN-413736, (M.S.)INDIA

Page 3 of 23

II. INSTRUCTIONS:

- 1. This document is to be completed at the time the system is installed to its location and set up for operation.
- 2. An authorized Ortho Clinical Diagnostics representative will check the system and enter the specific data as outlined in the appropriate Installation Qualification.
- 3. Employees of Central Clinical Laboratory Pravara Rural Hospital will verify each result and sign in the each page. The member of the validation team will carry out this procedure.
- 4. ALL deviations from normal specification during installation will be noted under COMMENTS. All resolution to such problems will also be noted in the COMMENTS section. Additional space is provided at the end of this protocol for the same.

III. SCOPE

This protocol will define the documentation that will be used to evaluate the instrument's operational check in accordance with the manufacturer's specifications and intended use. Successful completion of this protocol will verify that the instrument identified has been operated in accordance with the intended usage.

Operational checks will also be performed to verify that the Instrument has been operated with proper information / sequence and utilities.

Trained, knowledgeable personnel will perform operational Qualification studies.

Any exceptional conditions encountered during the qualification studies will be identified for review. Exceptional conditions will be investigated and the appropriate course of action determined. All documents will be initialed and dated.

OPERATIONAL QUALIFICATION: IV.

Instrument Identification A.

Verified Date

1. Model Name VITROS® 5600 Integrated System 20 6 18

2. Serial Number

J56000703

B.

Following is a list of tests to be performed and verified:					
Test No.	Test Name	Test purpose	Initial / Date		
01	System centers Overview	To make the operator to identify the instrument subsystem.	2/7/18		
02	Start up & Shutdown	To make the equipment ready for operation.	2/7/18		
03	User Inter Face Overview	Different functionality of software utility available for the operator interaction.	2 7 18		
04	Sample programming and Analysis	To process samples either by manual assigning or through LIS.	2/7/18		
05	Performing Calibration	To calibrate the system for every new lot of assay or after calibration expiry.	2 7 18		
06	Maintenance & System clean	To perform maintenance process to keep the system operating properly.	2]7]18		
07	Reagent Management & supply	To update & monitor the status of reagents required for assay processing.	3 7 18		
08	Performing Quality control	To confirm that systems, reagents and consumables are acceptable and working within specifications for each assay used	3/9/18		
09	Result Review	To review the processed results in the system.	3/7/18		
10	Result Intellicheck.	To check the Intellicheck function of the system.	3/7/18		
11	Option & Configuration	To setup the system as per Laboratory requirement.	4/7/18		

Test: 1

: System Hardware Overview

Purpose

: To make the operator to identify the instrument subsystem.

Reference

: Operator Reference Guide - Pages 4-1 to 4-5

Summary:

For better understanding purpose, Instrument has been divided into several parts according to its operation mode, so we call this partition as centers. And those centers are named as mention below.

Procedure:

This will list the available system centers in the instrument and its subsystem contend to operator understanding. The operator has to overview the Service V-Docs to get an idea about the system centers overview.

- Sampling Centers
 - o Sample Supply
 - Primary Tip sealer
 - o Micro sensor subsystem
- Micro Immunoassay Center
 - o Micro Immunoassay Metering & Reagent Metering
 - o Micro Immunoassay Versa Tip Ring
 - o Micro Well Incubator
 - o Micro Well Wash Assembly
 - o Signal Reagent Assembly
 - o Luminometer
- Command Center
 - Master Computer & Monitor
 - o Keyboard & Touch system
- System Frame and Cabinetry

Test: 2

: Starting Up and Shutting Down

Purpose

: To make the instrument 'READY' for operation

Reference

: Operator Reference Guide - Pages 3-0 to 3-25

Summary:

Instrument will check status of different parts of the instrument automatically after booting up to system status screen; if there is an error code posted, initialize the system and follow corrective action instructions provided for the error code.

Procedure:

Starting Up the System

- Check the room temperature and switch on the Air Conditioner.
- · Check the UPS.
- Switch on the Printer & Load the paper.
- Switch on the VITROS® 5600 Integrated System by lift the main switch up and hold it for about 5 sec.
- Wait for the instrument to get ready after initialization.
- The machine is ready for next step if it displays "READY" on the status console.
- If not, initialize by pressing the initialize button on the error code screen.
- Follow the instructions provided for the error codes.

Shutting Down the system

- Touch Shutdown in the main menu.
- Press 'Y/N' to continue the shutdown process.
- Desire normal shutdown or final shutdown and then select desired menu.
- If, you selected **Final Shutdown**, press the RESET button to restart the instrument, or press the Main power switch down to make it OFF.

Observation	System status console shows "Ready".	Remarks	Initial/Date
	Instrument is ready for operation	Pass	217/18

Test: 3

: User Interface Overview

Purpose

: To make the operator to understand the system screens.

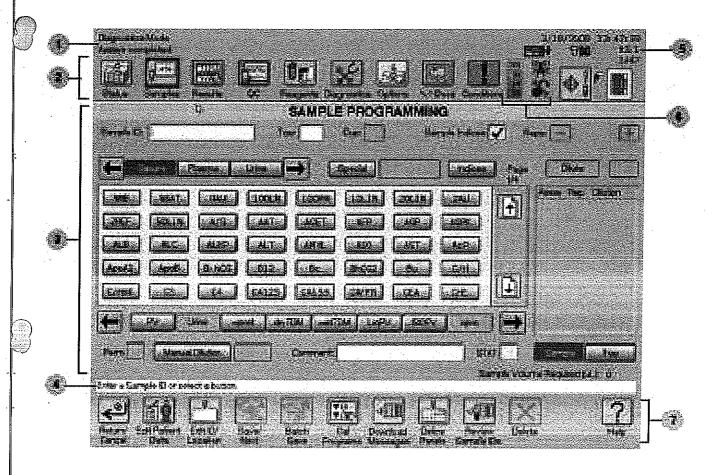
Reference

: Operator Reference Guide - Pages 6-0 to 6-12

Summary:

The System status screen will make the operator to understand of different functionality of software utility available for the operator. This will helps operator to check system status as well as to instruct any commands to the system for required operation.

Procedure:



The above (as shown in the Previous Page) picture is actual system software screen and the number in the blue circle is to identify the several functionality of the software icons designed for the operator to interact with the system. We call these software icon as mentioned below.,

- 1. Status Line
- 2. Status Console
- 3. Function Screen
- 4. Prompt Line
- 5. Time, Date and Version Display
- 6. Status Indicators
- 7. Process Buttons

Test: 4

: Sample programming and Analysis

Purpose

: To program and process the samples

Reference

: Operator Reference Guide (pages 9-1 to 9-13)

Summary: The operator can process assay by assigning program manually in the Universal Sample tray in 'Sample Program' menu or they can download sample program through 'LIS'. Sample programming is the process of selecting assays and programming characteristics for samples. The system uses the sample program to meter appropriate sample and select the right reagent for the assay, process and then report results with the correct identification.

Procedure:

Sr.	Activity	Observation	Remarks	Done By
No.	Activity	Observation	Pass / Fail	Date
01	Sample Programming methods & Overview	Desire the sample Programming method.	Pass	3/9/2018
02	Loading and Processing of samples	Tray cover opened and samples loaded in sample tray placed in sample supply.	Pass	3/7/2018
03	Programming samples	Sample program assigned for selected tray.	Pass	3/7/2018
04	Processing samples	Samples are processed automatically by the system.	Pass	4/7/2018
05	Unloading the samples	Tray cover opened and processed sample tray unloaded.	Pass	4/7/2018
06	Viewing samples in process	Sample under process are displayed on the 'View Sample Status' Screen.	pass	4/7/2018

Test: 5

: Performing Calibration

Purpose

: To calibrate the system for every new lot of assay

Reference

: Operator Reference Guide (pages 10-1 to 10-9)

Summary: The system requires its own calibration for every individual assay to measure the analytic concentration as well as to accept reagent pack status ready for processing. Assay calibration is a process that relates the response of the system to analyte concentration or activities. Calibration is performed periodically to adjust for changes in the system, assay protocols, or assay reagent lots.

The system requires calibration for individual assays when:

- A new assay is uploaded to the system
- The calibration expires (up to 28 days after it is processed, depending on the assay; refer to the package insert for expiration information)
- An assay reagent lot number changes
- Government regulations specified
- An assay's protocol changes

You also may need to perform calibration when:

- Certain service procedures are performed
- Quality control performance is out of range

Procedure:

Sr. No.	Activity	Observation	Remarks	Done By
			Pass / Fail	Date
01	Load New ADD via CD or Downloaded file (New Gen Lot, Protocol, reagent lot calibration, Diluents lot information).	Calibrator identified and updated for protocol & master calibration data.	Pass	Vijay 3/7/2018
02	Preparing calibrators.	Calibrators are ready for processing.	Pass	3/7/2018
03	Performing Calibration with Bar code label.	System recognizes the barcode and processing the calibration automatically.	Pass	27 2018
04	Performing Calibration with Sample processing screen.	In the sample programming, the calibration program is assigned and processed the calibration assigned for each assay.	Pars	3/7/2018
05	Calibration report.	Calibration completed successfully. Report printed.	Pass	4/7/2018

Test: 6

: Maintenance & System Clean

Purpose

: Clean appropriate modules to maintain Accuracy and precision.

Reference

: Operator Reference Guide 16-13 to 16-17

Summary:

Maintenance procedures are tasks that are performed to keep the system operating properly. Maintenance protocols to be performed according to the recommended schedule (daily, weekly, monthly, or as required). Ensure that we need to use 70% Isopropyl alcohol to disinfect the appropriate module to keep cleanliness and maintain the accuracy & precision.

The Maintenance is classified into four-category ie.,

- 1. Daily Maintenance
- 2. Weekly Maintenance
- 3. Monthly Maintenance
- 4. As required Maintenance

Daily Maintenance: Pages from 16-14 to 16-15

		Observation	Remarks	Done By
Sr. No.	Activity	·	Pass/Fail	Date
01	Perform Metering Maintenance	Metering Maintenance Performed	Pass	4/7/18
02	Empty Solid and Liquid waste container	Solid & Liquid waste containers are emptied.	Pass	477/18
03	Remove outdated or empty reagent packs, Signal Reagent packs and Universal Wash Buffer	Outdated empty Reagent packs, SR packs and UWR bottles are removed & discarded.	Pass	4/7/18
04	Inspect sample trays and adaptors	Sample Trays are cleaned.	Pass	417/18
05	Clean the SR Probe assembly	SR Probes are cleaned.	Pass	417/18
06	Load required reagent packs, Signal Reagent pack and Universal Wash Buffer.	All the required reagent packs are loaded and updated in the system as required.	Pass	4/2/18
07	Run Q.C fluids	Q.C samples are processed successfully.	Pass	4/7/18

Weekly Maintenance: Pages from 16-15 to 16-16

			Observation	Remarks	Done By
1 -	Sr. No.	Activity		Pass/Fail	Date
		Clean the Micro well Incubator.	Micro well incubator – Inner ring, outer ring, middle ring, shuttle weight, drop holes, Luminometer FOB, Wash reagent and signal reagent probes are cleaned.	Pass	इमि।।
	02	Clean the Primary tip sealer.	Primary Tip Sealer cleaned.	Pass	5 7 18
	03	Clean the Secondary Tip Sealer.	Secondary Tip Sealer cleaned.	Pars	5/7/18
(04	Clean the Sample Supply and Cap Retainer.	Cap Retainer & Sample Supply cleaned.	Pars	5/7/18
(05	Clean the Touch Screen Monitor & Keyboard.	Touch Screen Monitor & Key board Clean Done.	Pass	5/7/18
(06	Run the maintenance Pack for Subsystem cleaning.	Maintenance pack is loaded; subsystem cleaning done automatically by the system.	Pass	5/7/18
	07	Run QC Fluids	Q.C Processed successfully.	pass	5/7/18

Monthly Maintenance: Pages from 16-15 to 16-16

		Observation	Remarks	Done By
Sr. No.	Activity		Pass/Fail	Date
01	Clean Micro sensor Cover & Ring Area.	Micro Sensor Cover & Ring Surface cleaned.	Pass	G 7 18
02	Inspect/Clean Micro Immuno Assay reagent Supply top Cover.	Micro Immuno Assay Reagent Supply top Cover Inspected and Cleaned.	Pass	6/7/18
03	Clean VITROS Versa Tip supply Registration Rail.	Versa tip Supply Registration Rail cleaned.	Pass	6/7/18
04	Inspect Reagent cooler filter for cleanliness.	Reagent cooler filter removed & cleaned.	Pass	হ/ন/ম
05	Replace Vapors adsorption cartridge for every two months.	Every two months once, VAC replaced.	pass	6/7/18
06	Make a backup of Q.C, Calibration and Configuration.	Backup of QC, Calibration and Configuration made successfully.	Pass	6/7/18
07	Inspect / Clean Master Computer Filter.	Inspected and Cleaned Master computer Air Filter.	Pass	19/18

Test: 7

: Managing reagents Inventory and Supply

Purpose

: To Maintain & monitor the status of reagents or supply required for assay

processing.

Reference

: Operator Reference Guide (pages 15-1 to 15-7)

Summary: The Reagent Management feature enables you to review current inventory Information for the reagents loaded on the system. Using this function, you can load and unload reagents as necessary. To maintain the required reagents in the system for processing, the operator should review the Reagent management screen.

Sr.	Activity	Observation	Remarks	Done By
No.	Activity	Observation	Pass/Fail	Date
01	Review the reagent inventory to plan for the day.	The reagent inventory for the day planned.	Pass	3 9 18
02	Loading of Reagent Pack automatically	Required Reagent Packs loaded automatically by software request.	Pans	3/7/18
03	Loading of Reagent Pack with help of Manual Lot Entry button.	Requested Lot Information fed and the reagent pack loaded.	Pars	3/7/18
04	Loading of Signal Reagent automatically.	SR Pack loaded in position 1 & 2 and accepted by barcode reading.	Pars	3/4/18
05	Loading of Signal Reagent with Manual Load Button.	SR packs information fed and loading done.	Pars	3/7/18
06	Loading of Universal Wash Buffer	UWR buffer loading done through Load supply Software icons.	Pass ·	3/7/18
07	Unloading of Reagents	The entire Empty & expired reagents packs are unloaded by Load/Unload software icons.	Pass	3/7/18

Test: 8 : Performing Quality control

Purpose: Quality Control (QC) is important in determining the performance and accuracy of the system. To perform Quality Control, QC materials are run with either known, or unknown values along with patient samples to determine whether the system is functioning within the established ranges for your lab.

Reference : Operator Reference Guide (Pages 9-6 to 9-8)

Summary: Performing quality control procedures is an important part of using or maintaining the system. This section explains:

• When you should perform quality control

· How to choose a control fluid

The recommended frequency for processing quality control fluids is once in every 24 hours. However, the frequency with which you perform quality control procedures may vary, depending on the requirements and regulations for processing control fluids by your national, state, provincial, and local governments. Quality control procedures within your own Laboratory may also require a different frequency. You should also perform quality control procedures when:

• Assays have been calibrated

• Certain service procedures are performed, other than routine maintenance

Sr.	Activity	Observation	Remarks	Done By
No.	Activity	Observation	Pass / Fail	Date
01	Choosing the Control fluid	Required control fluid identified.	Pass	4/7/18
02	Preparing Liquid or Lyophilized control fluids	Control fluid prepared and ready for processing.	Pass	4/7/18
03	Creating QC file.	Q.C file created for assay in the system according to control fluid.	Pass.	4/7/18
04	Process QC samples	QC samples are programmed in the sample programming window and the QC samples are loaded and processed automatically	Pass	4/7/18
05	Review Q.C result.	Processed Q.C results are reviewed and found satisfactory.	Pass	4/7/18
06	Display & printing graph.	Q.C graph reviewed and printed.	Pass	4/7/18
07	Managing Quality control Reports	Required reports printed and filed.	Pass	4/7/18

Test: 9

: Result Review.

Purpose

: To review the processed results in the system.

Reference

: Operator Reference Guide (Pages 11-1 to 11-6)

Summary:

The Results Review function helps to evaluate result records for patient and quality control samples. The results will be displayed along with the Reagents Lot information, Dilution information & if there is any error codes or Flags.

Result records contain the data generated by the system when assays are processed. The system can store up to 25,000 result records. When this limit is reached, new result records overwrite the oldest records. The system permanently deletes the overwritten records from computer memory.

1	Sr.	Activity	Observation	Remarks	Done By
) L	No.			Pass / Fail	Date
	01	Update List.	Sample under process status displayed with all information.	Pass	3/7/18
	02	Monitoring Results.	Completed Recent Assay Results displayed on the screen.	Pass	3/1/18
	03	Filter Results.	Processed Assay Results displayed as per the selected criteria.	Pass	3/7/18
,	04	Edit Patient Data	User can Edit/Add Patient Demography information, but the Patient ID will remain same.	Pass	3/7/18
	05	Retrieving and Reviewing Archive Results by Set Report Status.	Archived Results are updated successfully in the CD/Pen Drive. The same Retrieved from the CD/Pen Drive.	pass	3/7/18
	06	Managing Reports by Set Report Status.	Required Reports got printed and filed.	pars	3/7/18
)	07	Integrated Codes and Flags	Reported Codes and Flags are referred in Flags and Code chart. Necessary corrective action taken.	Pass	3/7/18

Test: 10 : Result Intellicheck.

Purpose: To check the Integrity of Performed assays.

Reference: Operator Reference Guide (Pages 11-8 to 11-9).

Summary: The Result Intellicheck screen to view Intellicheck Technology Verifications performed for each sample and assay processed. For the selected result record, you can view verification data and detected exceptions for each analyte.

Example:

- To Analyze Intelli Report, select the sample ID listed on result review screen.
- On Review results screen, touch the 'Result Intellicheck' Icon.
- Result Intellicheck report comes on the screen.
- Check the parameters of Sample Metering, Sample + Reagent volume, Signal reagent volume and well wash verification for their acceptance.
- Take print of the Result intellicheck report.

Acceptance criteria:

Sr.			Remarks	Done By
No.	Parameter	Acceptance limit	Pass / Fail	Date
01	Sample Metering	Against all the parameters,	,	
	• Clot	"No" should be displayed		17/2010
	Bubble	on screen	Pass	4 7/2018
	Short sample		, .	
	Viscosity			
	Thin layer of fluid			
02	Reagent Metering	No Exception.		
	Sample + Reagent volume	Range: 12700 – 19000	Pass	4/7/2018
03	Signal Reagent	No Exception		1.1010.18
		Range: 17500 – 22800	pass	4/7/2018
04	Well wash verification	No Exception	pass	4.12.200
		Range: 21300 – 25000	,	4/7/2018
05	Luminometer –	No Exception	Pass	412/2008
	Self calibration			4/7/2018

Test: 9 : Option & Configuration

Purpose : To setup the system as per laboratory requirement

Reference: Operator Guide (Pages 11-8 to 11-14)

Summary: The Options & Configuration function provides many features for customizing your VITROS® 5600 Integrated System. It is organized into three main groups:

• Configure Analyte Data & Review/Edit Calibration Data

• System Setup

System Services

Selections within these groups allow you to customize analyte parameters, review calibration data, perform user calibrations, configure and set system parameters, review usage inventory, configure e-Connectivity® and network device parameters, configure printer, laboratory computer and auxiliary ports, perform backup for quality control, calibration and configuration files and perform an archive procedure for result records.

/	ceaure:			
Sr. No	Activity	Observation	Remarks Pass / Fail	Done By Date
01	Configure Assays	Analyte parameters are configured as desired by laboratory.	pass	617/18
02	Review / Edit Calibration Data	Calibration data updated.	Page	6/8/18
03	Configure System Setup	Required subsystem configuration is done successfully.	Pass	6/7/18
04	Configure Subsystem Setup	The required subsystem can be disabled / deactivated as per needs.	Pass	6 7 18
05	Configure Report Control	System report parameter has set for printer & LIS.	pass	(17)18
06	Configure Communication	System interface protocol set for Laboratory Information System (LIS), Ethernet and e-Connectivity® communications,	Pars	6 7 18
07	Configure Demography	Global demographic attributes to be used when configuring age, sex, and normal ranges for specific assay/body fluids is defined.	Pass	6/7/18
08	System Services 1.Datalogger 2.Perform Backup 3.Usage Counters 4.Option Summary 5.Load System Data	Shall be performed and reviewed as & when required.	Pass	6/7/18

V. Operational procedure:

- a. Certificate of Training
 - 1. Technician Training

This certifies that the technicians have received basic user training in the following categories for the system described in this Operational Qualification.

Mr.Vijaykumar Rathod, Territory Manager from Ortho Clinical Diagnostics has conducted the training.

Sr. No.	Training program	Initials	Date
1.	Instrument Setup		
2.	System Operation		·
3.	Basic trouble shooting and Maintenance		

2. Operator Training

The users responsible for the operation of this equipment have been trained in the proper usage of the system. Training focused on the basic operation and maintenance of the system.

Sr. No.	Operators	Department	Initials	Date
1.				
2.	,			
3.				
4.				
5.				
6.				
7.				
8.				

b. Customer SOP / Manuals:

Title	Number	Version	Verified by	Date
Vitros 5600 Integrated System Reference Guide			May	2/7/2018
Microslide Instruction for use Manual			Vijay	2/3/2018
Microtip Chemistry Instruction For Use Manual	. ,		Vijay	2/7/2018
Micro Well Instruction For Use Manual			Vijay	2/7/2018

Ortho	Clinical	Diagn	ostics
	Om noar		Conco

VI. COMMENTS:

Deviation:

Impact On Operation:

Corrective Action:

SYSTEM CERTIFICATION

Study data has determined that the system described in this document either meets all criteria outlined in this Installation Qualification Protocol, or exceptional conditions have been identified and documentation included. Exceptional conditions, if any, have been / not been addressed. The system is ready for Operation Qualification.

Name

Rathod Vijaykumar

Designation

Territory Manager

Date: 07/07/2018

Company

Ortho Clinical Diagnostics

Validation Team from Central Clinical Laboratory, Pravara Rural Hospital:

Name

: MO. K. N. HOTEGO

Signature

Designation

: ASSO. poof.

Date: 07/07/2018

Department

: Bio chemistry

Name

: Mr. Shawac s. R.

Signature:

Designation

: SE. Leh Technician

Date: 07/07/2018

Department

: Brochemister

Customer Authorizations:

: Bo, S.H. Jangle Sis.

Designation:

poof of Head Brochemistry

Signature: 5. 20-Jayle

Date

PROFESSOP & HEAD DEPARTMENT OF BIOCHEMISTRY RURAL MEDICAL COLLEGE

LONI-413736, (M.S.)INDIA

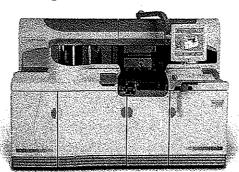
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INSTALLATION QUALIFICATION

For

VITROS® 5600 INTEGRATED SYSTEM





Manufactured by:

Ortho Clinical Diagnostics, Inc., US

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	Appendix	
	I. Installation Certificate	

I. APPROVAL OF THE IQ PROCEDURE:

Both Central Clinical Laboratory Pravara Rural Hospital and Ortho Clinical Diagnostics are responsible for installation of VITROS® 5600 Immunodiagnostic System bearing Sr. No J5600-0703 in Central Clinical Laboratory, Pravara Rural Hospital as per the attached protocol.

Protocol Performed By: Ortho Clinical Diagnostics Representative

Name

Mitesh Shah

Signatur

Designation

Sr. Zonal Manager

Date: 23/06/2018

Company

Ortho Clinical Diagnostics

Validation Team from Central Clinical Laboratory, Pravara Rural Hospital:

Name

: Md. K. N. Hotkaz.

Signature

Designation

: Asso profferior.

Department

: Brochemistry

Signature:

Designation

Name

: Mr. Bhawae s. R. : Se. Lab. Tech-

Date:

Department

y of einado 678:

Customer Authorizations:

: 80. 2.4. Jangle, sie

Designation: poof. & Head. Dept. of Biochemistor.

Date

20106 2018.

PROFESSOP & HEAD DEPARTMENT OF BIOCHEMISTRY RURAL MEDICAL COLLEGE LONI-413736, (M.S.) INDIA

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II. INSTRUCTIONS:

- 1. This document is to be completed at the time the system is installed to its location and set up for operation.
- 2. An authorized Ortho Clinical Diagnostics representative will check the system and enter the specific data as outlined in the appropriate Installation Qualification.
- 3. Employees of Central Chinical Laboratory Pravara Rural Hospital will verify each resultand sign in the each page. The member of the validation team will carry out this procedure.
- 4. ALL deviations from normal specification during installation will be noted under COMMENTS. All resolution to such problems will also be noted in the COMMENTS section. Additional space is provided at the end of this protocol for the same.

III. SCOPE

This Installation Qualification protocol will be performed on the VITROS® 5600 Immunodiagnostic System, and the Sr. No. -56000302 located at

This protocol will define the documentation that will be used to evaluate the instrument's installation in accordance with the manufacturer's specifications and intended use. Successful completion of this protocol will verify that the instrument identified has been installed in accordance with the intended usage.

Installation checks will also be performed to verify that the Instrument has been installed with proper connections and utilities.

Trained, knowledgeable personnel will perform Installation Qualification studies.

Any exceptional conditions encountered during the qualification studies will be identified for review. Exceptional conditions will be investigated and the appropriate course of action determined. All documents will be initialed and dated.

IV. ANCILLARY INFORMATION

a. Certification of Purchase Order Compliance

I certify to the best of my knowledge, the instrument VITROS® 5600 Immunodiagnostic System and Sr. No. 56000 F03 installed on 20/06/2018.

Verified By: Miteshc: Shah Date: 26/06/2018

b. Utilities

Sr. No	Utility		Verified by & date
1.	Environmental condition: As per requirement (To be free from Dust, Electrical & magnetic Interferences and free from vibration)	Yes/No	mitesh C. shah 2010612018
2.	Adequate space for installation: (Length 110 inches x Width 35 inches x Height 84 inches)	Yes/No	mitesh c.shah 20/06/2018
3.	Electrical Outlets: Actual Voltage on site [200 Vac – 240 Vac] Electrical Input: Voltage supplied through ON LINE UPS (232Vac @ 50Hz frequency, Earthing < 2.0Vac)	Yes / No	mitesh C. Shah 20/06/2018
4.	 Capacities: 90 samples (80 Routine positions & 10 STAT positions are available) 150 Reagent Positions are available. 	Yes/No	mitesh c. shat 20106/2018
5.	Temperature: 15° C to 30° C 15% to 75% relative humidity	Yes/No	mitesh c. Shah zolo6/2018

The instrument has been verified for the following:

Sr. No.	Verification		Verified by & date
1.	Equipment is identified	Yes / No	20106/2018
2.	Manufacturer's specifications are included	Yes/No	20/06/2018
3.	Accessories / Consumables are listed	Yes/No	2010612018
4.	Equipment manual from the manufacturer is documented	Yes / No	2010612018
5.	Manufacturer's Certificate of compliance attached	Yes / No	20/06/2018

V INSTALLATION QUALIFICATION:

A. Equipment Description

The VITROS® 5600 Integrated System is a Random access, walk away system intended for use in the *in vitro* quantitative, semi-quantitative, and qualitative measurement of a variety of analytes of clinical interest, using VITROS Chemistry Products MicroSlides, VITROS Chemistry Products MicroTip reagents and VITROS Immunodiagnostic Products Reagents.

,				
Instrument Identification			Verified by	Date
Equipment Name	:	Automated Integrated System	Mitesh C. Shah	20 06 20 8
Model	:	VITROS® 5600	instesh c. shah	20/06/2018
Manufacturer	;	Ortho Clinical Diagnostics, Inc., US	mitesh C shah	20/06/2018
Marketed by	•	Ortho Clinical Diagnostics India Pvt. Ltd.	mitesh c shah	20(06/2018
Serial Number	•	5600 0703	mitesh (.Shah	20106/2018
Lab Id :	:	No. 1	mitesh c. shah	20/06/2018
Software Name :	·	QNX	Mitesh c. Shah	20106/2018
Software Version:		N. 3.3.1	Mitesh C.Shah	2010612018
Size (in inches)	:	Adequate for installation: (Length 170 x Width 83 x Height 84).	mitesh c. Shah	20/06/2018
Power :		1600W@ 50Hz of 220Vac - 240Vac	Mitesh c. Shah	20106hal8

B. Accessories/Consumables

The following accessories were supplied with the instrument. Check $(\sqrt{})$ 'verified by' in case they are found to be in order.

Description	Quantity	Verified	Date
User Training Manual	1	<u> </u>	20/06/2018
Application Software-Revelation	1	~	201061248
Universal Sample Tray	9	<u></u>	2010612018
Backup DVD R/w	3		2010612018
Printer Cable	1	<u> </u>	2010612018
Printer Software	1	UŢ.	२० ०६ २०१३
Power Cords	3		20/06/2018
Printer	1	У	20/06/2018
Air filter	1		20/06/2018
Waste can 5L	1	~	zel06 2018

C. List of Manuals:

Ortho Clinical Diagnostics has supplied following manual.

D. Maintenance:

The instrument listed within this document will be placed under the control of the purchasing institution with respect to proper maintenance procedures as detailed in the Training and Reference Guide. The maintenance procedures will be filed separately.

A trained analyst using the manuals provided with the instrumentation can perform simple maintenance. Upon expiration of the warranty period Johnson and Johnson Ltd offers several levels of Maintenance Agreements and Performance Testing services to assist you in maintaining GLP/GMP compliance. Contacting your local representative and requesting the additional Service Agreement can supply additional information.

VI. INSTALLATION PROCEDURE

(The following steps Performed at the time of original installation at the initial location)

- 1. Locating & unpacking the instrument.
- 2. Reaffix/verify the circuits boards & CPU
- 3. Nominal Line voltage frequency selection of transformer.
- 4. Load Supply & Power ON the system.
- 5. System Configuration.
- 6. Systems Tests & Adjustments.
- 7. Subsystems Performance Verification & calibration
- 8. Setting and installing printer.

The Above mentioned steps has completed successfully by trained field Engineer as described below.

VI.1 Locating & unpacking the VITROS® 5600 instrument:

(\ServicePublications\5600\5600Service\J32845_Unpack-Install_Intact\J32845.pdf)

- Check the Tip & Tell Label.
- Verify the serial no / J number of the system match those indented for delivery.
- Place the pallet in a position with a minimum of 7 m (24 ft.) of clearance in front of the end with the LABELS
- Remove the STRAPPING and the RAMPS from the pallet..
- Assemble the 2 piece RAMP and hok the RAMPS to the end of the pallet
- Move the system down the ramps. Do the same for the second half of the system.
- Place the instrument in the lab leveled floor.
- Join the two halves of the system as per manufacturer's instructions.
- Remove the packing material from
 - VERSATIP supply carousel
 - Under side of sample supply cover

- SR metering Nozzle
- Well Wash Nozzles
- Beneath SR Pumps
- Luminometer & Micro ImmunoAssay VERSATIP ring
- Supply 4 load doors & Reagent Well shuttle
- SR carousel
- Remove the wire Tie, tape & Foam from UIA REAGENT METERING ARM.
- Remove the moisture separators behind the compressor installed on it bracket.
- Remove the Foam supporting from the compressor.

VI.2 Reaffix/verify the circuits boards & CPU:

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- Open the right side front door and open the card rack metal cover.
- Remove the RC labeled DSP boards and reaffix it back.
- Open the right side rear panel and open the card rack metal cover.
- Remove the UC labeled DSP boards and reaffix it back.
- Open the Middle front door and open the CPU top cover & verify the boards.

VI.3 Nominal Line voltage / frequency selection of transformer:

(\ServicePublications\5600\5600Service\J32845_Unpack-Install_Intact\J32845.pdf)

- Connect the Primary T2 H6 on Label no H6 for 0Vac.
- Connect the Primary T2_H# on label no H2 for 230Vac.
- Connect the Secondary T2_X1 on label no X1 for 230Vac.
- Connect the Secondary T2_X# on label no X2 for 200Vac.
- Connect the Secondary T2_X3 & T2_X3 on label no X3 for 0Vac.

VI.4 Load Supply & Power ON the system:

(\ServicePublications\5600\5600Service\J32845_Unpack-Install_Intact\J32845.pdf)

- VersaTip & Sample Trays.
- Signal Reagent & Universal Reagent.
- Check the supply and Earthing voltage.
- Switch ON the Instrument.

VI.5 System Configuration.: (\6902906 3600-RefGd Ltr-EN.pdf)

Click on Set Access Level from Status Menu and type password

Option -> Configure System ->

• Configure Current Date & Time:

Select the format and set the Date and Time.

Configure System Name & J Number

Enter the System Name & J number.

• Configure the Screen Saver

Set the Screen saver delay time.

• Configure the Site Temperature

Set the site temperature tolerance for the nominal site temperature.

Status -> Diagnostics -> Select the required task

• Touch Screen Calibration:

Touch "Calibrate Touch screen" at the bottom of the DIAGNOSTICS Menu.

Touch center of the target appear on the screen.

When you have finished, touch "Save Calibration"

• Country Code Selection:

Touch "Diagnostics" then Select "V-Docs"

Press [Alt] and [S] to Access the service Scripts.

Select "Configure Country Code"

Select the appropriate country from the List.

Select "Set country code"

Touch "Return".

Touch "Shut Down". Configure the Language from the System Menu button.

Touch "Final Shutdown". Then reset the system.

VI.6 System Tests and Adjustments: (\6902906 3600-RefGd Ltr-EN.pdf)

Adjustments are diagnostic functions used to fine-tune or define various system Parameters to ensure proper system performance. With the exception of the IRS Calibration, all other adjustments are available only to trained service personnel.

- MicroImmunnoassay (μIA) Metering
- MicroSensor
- MicroWell Reagent Metering
- MicroWell Wash Metering
- Signal Reagent Metering
- Luminometer
- Scrap Run

VI.7 Subsystems Performance Verification & Calibration: (\.6902906_3600-RefGd_Ltr-EN.pdfpdf)

- Well Wash Dispense & Aspiration Calibration.
- Signal reagent Dispense calibration.
- 30PSI & 10PSI calibration.
- Soak Volume Verification
- IRS Calibration

VI.8 Setting and installing printer: (\.6902906_3600-RefGd_Ltr-EN.pdf)

- Remove the Packing material form the printer and assemble the accessories.
- Connect the USB cable and Switch ON the Printer.
- Set report control and print the test page.

VII. Installation Report:

Activity	Observation	Remarks	Verified By / Date
Locating & unpacking the instrument.	Instrument was located and unpacked	Ok	mîtesh c. Shah 21/00/2018
Reaffix/verify the circuits boards & CPU	Reaffixed/verified the circuits boards & CPU	Ok	mitesh C. Shah 24 10612018
Nominal Line voltage frequency selection of transformer.	Nominal Line voltage frequency was sated.	Ok	mitesh c. shah 24 106/2018
Load Supply & Power ON the system.	Supply Loaded & Powered ON the system.	Ok	mitesh c. shah 21/06/2018
System Configuration.	System was configured as per the requirement.	Ok	mitesh C. Shah 24/06/2018
System Tests and Adjustments	System Tested and Adjustments done.	Ok	mitesh C. Shah 2110612018
Subsystems Performance Verification & calibration	Subsystems Performance Verified & calibrated successfully.	Ok	mitesh <. shah 21/06/2018
Setting and installing printer	Printer was installed and connected to the system.	Ok	mitesh c. shah 21/06/2018

VIII. COMMENTS:

Deviation:

MA

Impact On Operation:

NA

Corrective Action:

NA

Date: 23/06/2018

Signature\

Signature:

Date: 23/06/2017

SYSTEM CERTIFICATION

Study data has determined that the system described in this document either meets all criteria outlined in this Installation Qualification Protocol, or exceptional conditions have been identified and documentation included. Exceptional conditions, if any, have been / not been addressed. The system is ready for Operation Qualification.

Protocol Performed By:	Ortho Clinical Diagnostics	Representative
------------------------	----------------------------	----------------

Name

Mitesh Shah

Designation

Sr. Zonal Manager

Company

Ortho Clinical Diagnostics

Validation Team from Central Clinical Laboratory, Pravara Rural Hospital:

Name

: M8. K. N. Holkas.

: Asso professor

Department

Designation

: Biochemisty

Name

: Mo Bhown 2.8.

Designation

: se. Leub technician.

Department

Brochewitzy

Customer Authorizations:

Name: Bo. S. H. Jangle 300
Designation: POOF. & Head Brochemister

Signature

Date

PROFESSOP & HEAD DEPARTMENT OF BIOCHEMISTRY RURAL MEDICAL COLLEGE LONI-413736,(M.S.)INDIA

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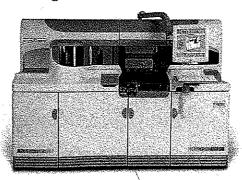
Mary Train

PERFORMANCE QUALIFICATION

For

VITROS® 5600 INTEGRATED SYSTEM





Manufactured by:

Ortho Clinical Diagnostics, Inc., US

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IV.I	Performance Procedure	7
V	Performance Qualification Report	10
VI.	Comments	11
VII	System Certification	12
	·	

I. APPROVAL OF THE PQ PROCEDURE:

Both Central Clinical Laboratory Pravara Rural Hospital and Ortho Clinical Diagnostics are responsible for installation of VITROS® 5600 Immunodiagnostic System bearing Sr. No J5600-0703 in Central Clinical Laboratory, Pravara Rural Hospital as per the attached protocol.

Protocol Performed By:	Ortho Clini	cal Diagnostics	Representative
------------------------	-------------	-----------------	----------------

Name

Rathod Vijaykumar

Designation

Territory Manager

Date: 07/07/2018

Company

Ortho Clinical Diagnostics

Validation Team from Central Clinical Laboratory, Pravara Rural Hospital:

Name

: Mo. K. N. Hotego

Signature

Designation

: ASSO. POOF.

Department

· Biochemistoy

Name

: Mo. Bhowor S.R.

Signature :

Designation

: SE les Tech.

Date: 07/07/2018

Department

: Broch emister

Customer Authorizations:

Name

: 05.2.H. Japake, Sie.

Designation: POOP & Heard. Bioch emiste

Signature

: S. N. Jayle

Date

PROFESSOP & HEAD RURAL MEDICAL COLLEGE LONI-413736, (M.S.) INDIA

Page 3 of 13

II. INSTRUCTIONS:

- 1. This document is to be completed at the time the system is installed to its location and set up for operation.
- 2. An authorized Ortho Clinical Diagnostics representative will check the system and enter the specific data as outlined in the appropriate Installation Qualification.
- and sign in the each page. The member of the validation team will carry out this procedure.
- 4. ALL deviations from normal specification during installation will be noted under COMMENTS. All resolution to such problems will also be noted in the COMMENTS section. Additional space is provided at the end of this protocol for the same.

III. SCOPE

This Performance Qualification protocol will be performed on the VITROS® 5600 Integrated System, and the Sr. No. 356000305 located at

This protocol will define the documentation that will be used to evaluate the instrument's performance check in accordance with the manufacturer's specifications and intended use. Successful completion of this protocol will verify that the instrument identified has been performed in accordance with the intended usage.

Performance checks will also be performed to verify that the Instrument has been operated with proper information/sequence and utilities.

Trained, knowledgeable personnel will perform Performance Qualification studies.

Any exceptional conditions encountered during the qualification studies will be identified for review. Exceptional conditions will be investigated and the appropriate course of action determined. All documents will be initialed and dated.

IV. PERFORMANCE QUALIFICATION

A. Instrument Identification

Verified Date

1. Model Name

VITROS 5600

2 7 2018

2. Serial Number

J56000703

2/7/2018

B. Following is a list of tests to be performed and verified:

Sr.No	Test Name	Test Purpose	Initial / Date
01	QC Run	To see the performance of quality control material on the equipment on selected assay parameters as per the specifications given	2/7/2018
02	Accuracy Study	To compare the obtained value with true values of processed control.	22 5 2018
03	Precision Study	To check the precision performance of the equipment	22/7/2018

C. Performance Testing:

Test I

Test Name

QC Run

Purpose

: To see the performance of quality control material on

the equipment as per the specifications given

Method

Microslide - Rate Chemistry & Endpoint Chemistry

Microslide – Potentiometric Chemistry; Microslide – Immunorate Chemsitry;

Microtip Chemistry Microsensor Chemistry

Microwell - Chemiluminescence Immunoassay

Analysis of controls:

Note: Analyze controls for ALT (Microslide Rate Chemistry);

Sodium (Potentiometric Chemistry);

BuBc (Microslide End point Chemistry)

Phenytoin (Microslide – Immunorate Chemistry)

dLDL (Microtip Chemistry)

Gentamycin (Microtip Chemistry)

IgM (Microtip Chemistry)

HIT (Microsensor Chemistry)

TSH (Microwell - Immunometric assay) &

TT4 (Microwell - Competitive assay).

Sr. No.	Activity	Procedure done as per the	Remarks	Done By
		protocol defined in Vitros 5600 V Docs – System Operation – Quality Control	Pass/Fail	Date
01	Preparing Liquid or Lyophilized control fluids	"Instructions for use" of QC material	Pass	Vipy 3/7/18
02	Creating QC file	V Docs – System Operation – Quality Control – Define control fluids	Pass	3/7/18
03	QC sample programming and analysis	V Docs – System Operation – Quality Control – Process Control fluid samples & Review the Control sample results.	pass	3/7/18

Test II

Test Name

: Accuracy

Purpose

: To see the accuracy of obtained quality control value in comparison with the expected mean values.

Method

: Microslide; Microtip; Microsensor and Microwell

method as mentioned above

Analysis of controls:

Note: Analyze controls as mentioned above.

Sr.	Activity	Procedure done as per the	Remarks	Done By
No.		protocol defined in Vitros 5600 V Docs - System Operation - Quality Control	Pass/Fail	Date
01	Preparing Liquid or Lyophilized control fluids	'Instructions for use' of QC material	Pass	3/7/2018
02	QC sample programming and analysis	V Docs – System Operation – Quality Control – Process Control fluid samples & Review the Control sample results.	Pass	3/7/2018
03	Accuracy Analysis	Compare the obtained Q.C value with mean of expected value as mentioned in the QC Value chart.	Pass	3/7/2018

Test III

Test Name

Purpose

Method

: Precision Study

: To see the precision performance of the equipment

: Microslide – Rate Chemistry & Endpoint Chemistry

Microslide – Potentiometric Chemistry; Microslide – Immunorate Chemsitry;

Microtip Chemistry Microsensor Chemistry

Microwell - Chemiluminescence Immunoassay

- Analyze Vitros Performance Verifier Level 1 control for the following tests: ALT (5 x 7 times), Na+ (5 x 8 times), dLDL (6 x 6 times), BuBc (5 x 7 times)
- Analyze TDM Performance Verifier Level 3 for Phenytoin (5 x 7 times).
- Analyze TDM Performance Verifier Level 1 for Gentamycin (6 x 6 times).
- Analyze Protein Peformance Verifier Level 1 for IgM (6 x 6 times).
- Analyze Microsensor Check Fluid Level I for Hemolysis, Icterus and Turbidity (20 times each).
- Analyze all the three levels of Vitros Total Thyroid controls for Microwell Chemiluminescence Immunoassay TT4 and TSH (10 times each).
- Calculate the Mean, SD and CV%.

Acceptance Criteria:

Sr. No.	Analyte	Control Level	Precision Limit
01	ALT	PV I	≤2.2 SD
02	Sodium	PV I	≤ 0.69% CV
03	dLDL	PVI	SD < 2:4
04	Bu	PV I	≤ 0.3 SD
05	Вс	PV I	≤ 0.6 SD
06	Phenytoin	TDM PV III	≤ 0.75 SD
07	Gentamycin	TDM PV I	SD < 0.11

08	IgM	Protein PV I	SD < 2.1
09	Hemolysis	MS Check Fluid Level I	SD < 4.4
10	Icterus	MS Check Fluid Level I	SD < 0.4
11	Turbidity	MS Check Fluid Level I	SD < 14.8
12	TT4	Total Thyroid Control Level 1	CV% ≤4.9
		Level 2	CV% ≤ 4.6
		Level 3	CV% ≤ 6.0
	TSH	Total Thyroid Control Level 1	CV% ≤ 10.9
13		Level 2	CV% ≤ 4.9
, <i>,</i>		Level 3	CV% ≤ 4.7

^{*} Reference: The acceptance SD & CV% has been taken from Manufacturer's recommended limits.

Table for Record the Obtained Q.C Values:

Test Name:

Control Level:

Control Lot:

Expiry Date:

Sr. No	Obtained Q.C Value	Range of the	Mean of the	Remarks	Done By
		Comparator	Comparator	Pass / Fail	Date
01	·				
02					
03					
04					
05	·				
06					
07					
08					
09					
10					

* Reference: - Altached QC Report.

			Ortho Clinical	Diagnostics	
V. (COMMENTS:				
Dev	iation:				
				•	
				•	
) .	*				
Imp	act On Operation:			•	
			-		
	-			•	
		· · · · · · · · · · · · · · · · · · ·			
~					
Cori	ective Action:				
	·				

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SYSTEM CERTIFICATION

Study data has determined that the system described in this document either meets all criteria outlined in this Installation Qualification Protocol, or exceptional conditions have been identified and documentation included. Exceptional conditions, if any, have been / not been addressed. The system is ready for Operation Qualification.

Protocol Performed By:	Ortho Clinical Diagnostics Represent	ative
------------------------	--------------------------------------	-------

Name

Rathod Vijaykumar

Designation

Territory Manager

Company

Ortho Clinical Diagnostics

Date: 07/07/2018

Validation Team from Central Clinical Laboratory, Pravara Rural Hospital:

Name

: Ma K. H. HOTKER

Signature:

Designation

: ASSO. POOP.

Date: Off off

Department

: Biochemistop

Name

: Mo Bhowar S. R.

Designation

: & lab. Teehnician

Date: 07/07/2018

Department

: Bibobemi story

Customer Authorizations:

Name

85. 2.4. Jarole Sio

Designation:

pool & Head Brothamish

Signature

SHIJMY

Date

8102 4018

Professop & Head Department of Biochemistry RURAL MEDICAL COLLEGE LŎŅŀ-413736,(M.S.)INDIA

Page 13 of 13

403, Leela Business Park, Andheri Kurla Road, Andheri East, Mumbai – 400059 T:+9: 22 6787 9300 F: +91 22 6787 9333

Calibration Certificate

The below mentioned instrument has been calibrated and tests performed to check the system performance.



Instrument

: VITROS V5600

Serial No

: 5600-0703

Customer Name

: PRAVARA MEDICAL TRUST-LONI

Calibration performed on

: 06.12.2018

The system's calibration includes optics calibration and checking the reproducibility performance of the instrument as per the guidelines provided by the manufacturer.



Next Calibration will be performed in JUNE 2019.

For Ortho Clinical Diagnostics India Pvt Ltd.

Mitesh Shah

Date: 06/12/2018

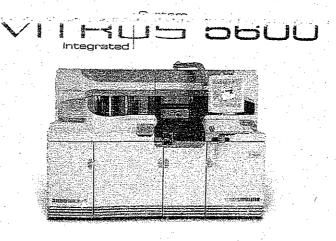
Sr.Zonal Service Manager-Ortho Care

Pune

PERFORMANCE QUALIFICATION

For

VITROS® 5600 INTEGRATED SYSTEM



Manufactured by:

Ortho Clinical Diagnostics, Inc., US

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VII	System Certification	12

I. APPROVAL OF THE PQ PROCEDURE:

Both Central Clinical Laboratory, Pravara Rural Hospital and Ortho Clinical Diagnostics are responsible for Performance check of VITROS® 5600 Integrated System bearing Sr. No J56001041 in Central Clinical Laboratory, Pravara Rural Hospital, Loni as per the attached protocol.

Protocol Performed By: Ortho Clinical Diagnostics representative

Name

Kailas Ghait

Signature:

Designation

Sr. Territory Manager

Date: 10/12/2020

Company

Ortho Clinical Diagnostics

Validation Team from Central Clinical Laboratory, Pravara Rural Hospital:

Name

: Mr. K. N. Hotkar

Signature: W

Designation

: AS80 prof.

Date: 10/1/2020

Department

Brochemistry

Name

: mor Bhawar s.R.

Signature:

Designation

: & lab Tech.

Date: [0] 2 2020

Department

: Biochemisty

Customer Authorizations:

Name

: DC. 3. H. Jangk Sir

Designation:

poof & Head Broobenikst

Signature: 5, 4.500

Date

10/12/ 2020

PROFESSOP & HEAD DEPARTMENT OF BIOCHEMISTRY RURAL MEDICAL COLLEGE LONI-413736, (M.S.) INDA

II. INSTRUCTIONS:

- 1. An authorized Ortho Clinical Diagnostics representative will check for the performance of the instrument and enter the specific data as outlined in the Performance Qualification.
- 2. The concerned lab personnel are responsible for performance checks described in the Performance testing.
- 3. The concerned employees of Central Clinical Laboratory Pravara Rural Hospital will verify each result and sign in each page. The member of the validation team will carry this out.
- 4. ALL deviations from the acceptance criteria detailed in this document will be noted in the COMMENTS section in the end of each PQ protecol. All accolution to such problems will also be noted in the COMMENTS section and must be resolved prior to issuance of a SYSTEM CERTIFICATION.

III. SCOPE

This Performance Qualification protocol will be performed on the VITROS® 5600 Integrated System, and the Sr. No. J56001041 located at Central Clinical Laboratory Pravara Rural Hospital, Loni.

This protocol will define the documentation that will be used to evaluate the instrument's performance check in accordance with the manufacturer's specifications and intended use. Successful completion of this protocol will verify that the instrument identified has been performed in accordance with the intended usage.

Performance checks will also be performed as wrift that the Instrument has been operated whin proper information/sequence and utilities.

Trained, knowledgeable personnel will perform Performance Qualification studies.

Any exceptional conditions encountered during the qualification studies will be identified for review. Exceptional conditions will be investigated, and the appropriate course of action determined. All documents will be initialed and dated.

IV. PERFORMANCE QUALIFICATION

A. Instrument Identification

Verified Date

1. Model Name

VITROS 5600

05/12/2020

2. Serial Number

J56001041

05/12/2020

B. Following is a list of tests to be performed and verified:

Sr.No.	Test Name	Test Purpose	Initial / Date
01	QC Run	To see the performance of quality control material on the equipment on selected assay parameters as per the specifications given	Kailas Ghait 05/12/2020
02	Accuracy Study	To compare the obtained value with true values of processed control.	Kailas Ghait 05/12/2020
03	Precision Study	To check the precision performance of the equipment	Kailas Ghait 05/12/2020

C. Performance Testing:

Test I

Test Name : QC Run

Purpose : To see the performance of quality control material on

the equipment as per the specifications given

Method : Microslide – Rate Chemistry & Endpoint Chemistry

Microslide – Potentiometric Chemistry; Microslide – Immunorate Chemsitry;

Microtip Chemistry
Microsensor Chemistry

Microwell - Chemiluminescence Immunoassay

Analysis of controls:

Note: Analyze controls for ALT (Microslide Rate Chemistry);

Sodium (Potentiometric Chemistry); BuBc (Microslide End point Chemistry)

Phenytoin (Microslide – Immunorate Chemistry)

dLDL (Microtip Chemistry)
Gentamycin (Microtip Chemistry)
IgM (Microtip Chemistry)

HIT (Microsensor Chemistry)

TSH (Microwell - Immunometric assay) & TT4 (Microwell - Competitive assay).

Sr. No.	protocol V Docs -	Procedure done as per the	Remarks	Done By Date	
		protocol defined in Vitros 5600 V Docs – System Operation – Quality Control	Pass/Fail		
01	Preparing Liquid or Lyophilized control fluids	"Instructions for use" of QC material	Pass	Kailas Ghait 05/12/2020	
02	Creating QC file	V Docs – System Operation – Quality Control – Define control fluids	Pass	Kailas Ghait 05/12/2020	
03	QC sample programming and analysis	V Docs – System Operation – Quality Control – Process Control fluid samples & Review the Control sample results.	Pass	Kailas Ghait 05/12/2020	

Test II

Test Name : Accuracy

Purpose : To see the accuracy of obtained quality control value

in comparison with the expected mean values.

Method : Microslide; Microsensor and Microwell

method as mentioned above

Analysis of controls:

Note: Analyze controls as mentioned above.

Sr. No.	Activity	Procedure done as per the protocol defined in Vitros 5600	Kemarks	Done By
140.		V Docs – System Operation – Quality Control	Pass/Fail	Date
01	Preparing Liquid or Lyophilized control fluids	'Instructions for use' of QC material	Pass	Kailas Ghait 05/12/2020
02	QC sample programming and analysis	V Docs – System Operation – Quality Control – Process Control fluid samples & Review the Control sample results.	Pass	Kailas Ghait 05/12/2020
03	Accuracy Analysis	Compare the obtained Q.C value with mean of expected value as mentioned in the QC Value chart.	Pass	Kailas Ghait 05/12/2020

Test III

Test Name

Purpose

Method

: Precision Study

: To see the precision performance of the equipment

: Microslide – Rate Chemistry & Endpoint Chemistry

Microslide – Potentiometric Chemistry; Microslide – Immunorate Chemsitry;

Microtip Chemistry
Microsensor Chemistry

Microwell - Chemiluminescence Immunoassay

Analyze vitros Performance Verifier Level 1 control for the following tests: ALT (5 x 7 times), Na+ (5 x 8 times), dLDL (6 x 6 times), BuBc (5 x 7 times)

- Analyze TDM Performance Verifier Level 3 for Phenytoin (5 x 7 times).
- Analyze TDM Performance Verifier Level 1 for Gentamycin (6 x 6 times).
- Analyze Protein Peformance Verifier Level 1 for IgM (6 x 6 times).
- Analyze Microsensor Check Fluid Level I for Hemolysis, Icterus and Turbidity (20 times each).
- Analyze all the three levels of Vitros Total Thyroid controls for Microwell Chemiluminescence Immunoassay TT4 and TSH (10 times each).
- Calculate the Mean, SD and CV%.

Acceptance Criteria:

Sr. No.	Analyte	Control Level	Precision Limit
01	ALT	PV I	≤ 2.2 SD
02	Sodium	PV I	≤ 0.69% CV
03	dLDL	PV I	SD < 1.1
04	Bu	PV I	≤ 0.3 SD
05	Bc	PV I	≤ 0.6 SD

06	Phenytoin	TDM PV III	≤ 0.75 SD
07	Gentamycin	TDM PV I	SD < 0.11
08	IgM	Protein PV I	SD < 2.1
09	Hemolysis	MS Check Fluid Level I	SD < 4.4
10	Icterus	MS Check Fluid Level I	SD < 0.4
11	Turbidity	MS Check Fluid Level I	SD < 14.8
		Total Thyroid Control Level 1	CV% ≤4.9
. 12	TT4	Lever 2	CV%≤4.6
		Level 3	CV% ≤ 6.0
		Total Thyroid Control Level I	CV% ≤ 10.9
13	TSH	Level 2	CV% ≤ 4.9
		Level 3	CV% ≤ 4.7

^{*} Reference: The acceptance SD & CV% has been taken from Manufacturer's recommended limits.

Table for Record the Obtained Q.C Values:

Test Name:

Control Level:

Control Lot:

Expiry Date:

	Sr. No	Obtained Q.C Value	Range of the	Mean of the	Remarks	Done By
•			Comparator	Comparator	Pass / Fail	Date
: .	01					
	02					
	03					
	04					
	05					
	06					***
	07					
	08					
	09					
	10					

	Outloo Oliniaal Diamaasia
	Ortho Clinical Diagnostics
V. COMMENTS:	
Deviation:	
Nil	
andriana and an an an American and a substitution of the second and the second and the second and the second a The second and the se	്റ് അവ പ്രത്യാക്ക് വാന്ത്യായ വാധ്യായ വാധ്യായ വാധ്യായത്ത് വാണ്ട് വാണ്ട് വായ്യായ അത്രത്ത് അത്രമുത്ത് അവ്യാത്രവു ഇത് പ്രത്യാക്ക് വാസ് വാധ്യായ വാധ്യായ വാധ്യായ പ്രത്യായത്ത് വാണ്ട് വായ്യായ അത്രത്ത് വാത്രിയുന്നത്ത് വായ്യായ വായ്
Impact On Operation:	
impact on Operation.	그 없는 생님은 사람들은 학생들이 되었는데 하고 사용하다고
Nil	
Corrective Action:	
#	
Nil	
LVAE	·

VI. System Certification

Study data has determined that the system described in this document either meets all criteria outline in this Performance Qualification Protocol, or exceptional conditions have been identified and documentation included. Exceptional conditions, if any, have been addressed. The system is ready for specified usage.

Protocol Performed By: Ortho Clinical Diagnostics Representative

Name

Kailas Ghait

Designation

Sr. Territory Manager

Ortho Clinical Diagnostics

Signature:

Date: 05/12/2020

Signature:

Date: 05/12/ 2000

Date: 05/1/2020

Yhait

Validation Team Central Clinical Laboratory, Pravara Rural Hospital:

Name

- |

: Mo. K. H. Hothas.

: AS80, prof.

Department

Designation

Name

: Brochemiaty
: mr Bhawae 4. R

Designation

: or lab Technique

Department

: Brochemisty

Customer Authorizations:

Name

: Do S. N. Japak Sio.

Designation: poof. & Head Brochamisty

Signature

: S.N.Jayle

Date

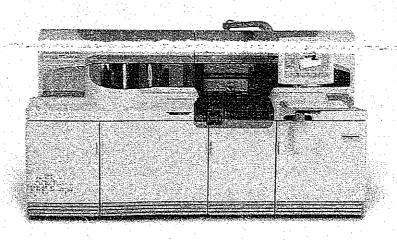
: 001 1 2020.

PROFESSOP & HEAD DEPARTMENT OF BIOCHEMISTRY RURAL MEDICAL COLLEGE LONI-413736, (M.S.) INDIA

OPERATIONAL QUALIFICATION

For

VITROS® 5600 INTEGRATED SYSTEM



Manufactured by:
Ortho Clinical Diagnostics, Inc., US

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V	Operational Qualification Report	21
VI	Comments	23
VII	System Certification	24

I. APPROVAL OF THE OQ PROCEDURE:

Date

10/12/2020

LONI-413738, M.S.) INDIA

Both Central Clinical Laboratory Pravara Rural Hospital and Ortho Clinical Diagnostics are responsible for Operational check of VITROS® 5600 Integrated System bearing Sr. No. J56001041 installed in Central Clinical Laboratory Pravara Rural Hospital, Loni as per the attached protocol.

Protocol Performed By:	Ortho Clinical Diagnostics Representative	0.
Name	: Kailas Ghait	Signature:
	: Ortho Clinical Diagnostics	-Date:10/12/2825******
Validation Team from	Central Clinical Laboratory Pravara Rural Hospi	tal:
Name	: Mo. K. N. Hoters	Signature :
Designation	1 org. 0229	Date: 10/11/2010
Department	: Biochemister	1
Name :	: Mo. Bhawar S.R.	Signature: MADATE : 10 114 W.
Designation	Go. Leb Feeh	Date: 10/1/10/10
Department :	Brochemistry	, 5: 5
Customer Authorization	∫	
Name : O	c. s. H. Jangle Sir	
Designation: 687	of 4 Head Brochemistry	P
Signature :	s. p.Jage	,

II. INSTRUCTIONS:

- 1. This document is to be verified / completed at the time, the system is going for operational check of each purpose and set up for operation.
- 2. An authorized Ortho Clinical Diagnostics representative will check the system and enter the specific data as outlined in the appropriate Operational Qualification.
- 3. Employees of Central Clinical Laboratory, Pravara Rural Hospital will verify each result and sign in each page. The member of the validation team will carry out this procedure.
- COMMENTS. All resolution to such problems will also be noted in the COMMENTS section. Additional space is provided at the end of this protocol for the same.

III. SCOPE

This Operational Qualification protocol will be performed on the VITROS® 5600 Integrated System, bearing Sr. No. J56001041 located at Central Clinical Laboratory, Pravara Rural Hospital Loni.

This protocol will define the documentation that will be used to evaluate the instrument's operational check in accordance with the manufacturer's specifications and intended use. Successful completion of this protocol will verify that the instrument identified has been operated in accordance with the intended usage.

Sportable of the will also be performed to verify that the Instrument has been operated when proper information / sequence and utilities.

Trained, knowledgeable personnel will perform operational Qualification studies.

Any exceptional conditions encountered during the qualification studies will be identified for review. Exceptional conditions will be investigated, and the appropriate course of action determined. All documents will be initialed and dated.

IV. OPERATIONAL QUALIFICATION:

A. Instrument Identification

Verified Date

1. Model Name

VITROS® 5600 Integrated System

2. Serial Number

J56001041

08/12/2020

B. Following is a list of tests to be performed and verified:

	rollowing is a list of tests to be performed and verified:						
Test No.	Test Name	Test purpose	Initial / Date				
01	System centers Overview	To make the operator to identify the instrument subsystem.	08/012/2020				
02	Start up & Shutdown	To make the equipment ready for operation.	Kailas Gnait 08/012/2020				
03	User Inter Face Overview	Different functionality of software utility available for the operator interaction.	Kailas Ghait 08/012/2020				
04	Sample programming and Analysis	To process samples either by manual assigning or through LIS.	Kailas Ghait 08/012/2020				
05	Performing Calibration	To calibrate the system for every new lot of assay or after calibration expiry.	Kailas Ghait 08/012/2020				
06	Maintenance & System clean	To perform maintenance process to keep the system operating properly.	Kailas Ghait 08/012/2020				
07	Reagent Management & supply	To update & monitor the status of reagents required for assay processing.	Kailas Ghait 08/012/2020				
08	Performing Quality control	To confirm that systems, reagents and consumables are acceptable and working within specifications for each assay used	Kailas Ghait 08/012/2020				
09	Result Review	To review the processed results in the system.	Kailas Ghait 08/012/2020				
10	Result Intellicheck.	To check the Intellicheck function of the system.	Kailas Ghait 08/012/2020				
11	Option & Configuration	To setup the system as per Laboratory requirement.	Kailas Ghait 08/012/2020				
		requirement.					

Test: 1

: System Hardware Overview

Purpose

: To make the operator to identify the instrument subsystem.

Reference

: Operator Reference Guide - Pages 4-1 to 4-5

Summary:

For better understanding purpose, Instrument has been divided into several parts according to its operation mode, so we call this partition as centers. And those centers are named as mention below.

Procedure:

This will list the available system centers in the instrument and its subsystem, contend to operator understanding. The operator has to overview the Service V-Docs to get an idea about the system centers overview.

- Sampling Centers
 - o Sample Supply
 - o Primary Tip sealer
 - o Micro sensor subsystem
- Micro Immunoassay Center
 - o Micro Immunoassay Metering & Reagent Metering
 - Micro Immunoassay Versa Tip Ring
 - Micro Well Incubator
 - Micro Well Wash Assembly
 - Signal Reagent Assembly
 - Luminometer
- Command Center
 - o Master Computer & Monitor
 - Keyboard & Touch system
- System Frame and Cabinetry

Test: 2

: Starting Up and Shutting Down

Purpose

: To make the instrument 'READY' for operation

Reference

: Operator Reference Guide - Pages 3-0 to 3-25

Summary:

Instrument will check status of different parts of the instrument automatically after booting up to system status screen; if there is an error code posted, initialize the system and follow corrective action instructions provided for the error code.

Procedure:

Starting Up the System

- Check the room temperature and switch on the Air Conditioner.
- Check the UPS.
- Switch on the Printer & Load the paper.
- Switch on the VITROS® 5600 Integrated System by lift the main switch up and hold it for about 5 sec.
- Wait for the instrument to get ready after initialization.
- The machine is ready for next step if it displays "READY" on the status console.
- If not, initialize by pressing the initialize button on the error code screen.
- Follow the instructions provided for the error codes.

Shutting Down the system

- Touch Shutdown in the main menu.
- Press 'Y/N' to continue the shutdown process.
- Desire normal shutdown or final shutdown and then select desired menu.
- If, you selected **Final Shutdown**, press the RESET button to restart the instrument, or press the Main power switch down to make it OFF.

Observa	ition	System status console shows "Ready".	Remarks	Initial/Date
		Instrument is ready for operation	Pass	Kailas Ghait
				08/12/2020

Test: 3

: User Interface Overview

Purpose

: To make the operator to understand the system screens.

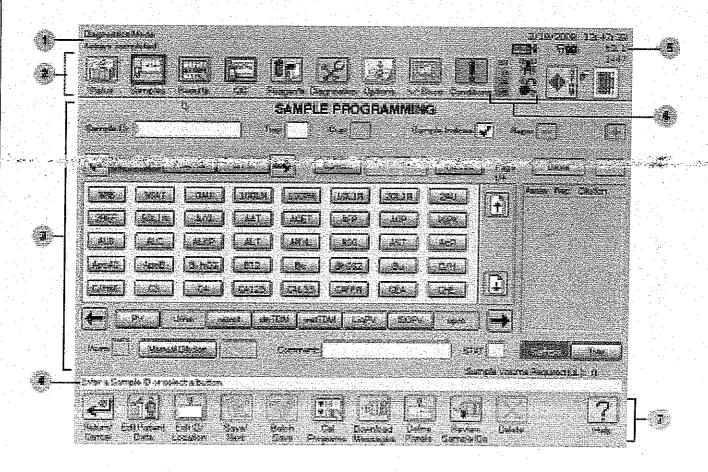
Reference

: Operator Reference Guide - Pages 6-0 to 6-12

Summary:

The System status screen will make the operator to understand of different functionality of software utility available for the operator. This will helps operator to check system status as well as to instruct any commands to the system for required operation.

Procedure:



The above (as shown in the Previous Page) picture is actual system software screen and the number in the blue circle is to identify the several functionality of the software icons designed for the operator to interact with the system. We call these software icon as mentioned below.

- 1. Status Line
- 2. Status Console
- 3. Function Screen
- 4. Prompt Line

- 5. Time, Date and Version Display
- 6. Status Indicators
- 7. Process Buttons

Test: 4

: Sample programming and Analysis

Purpose

: To program and process the samples

Reference

: Operator Reference Guide (pages 9-1 to 9-13)

Summary: The operator can process assay by assigning program manually in the Universal Sample tray in 'Sample Program' menu or they can download sample program through 'I.IS'. Sample programming is the process of selecting assays and programming characteristics for samples. The system uses the sample program to meter appropriate sample and select the right reagent for the assay, process and then report results with the correct identification.

Sr.			Remarks	Done By
No.	Activity	Observation	Pass / Fail	Date
01	Sample Programming methods & Overview	Desire the sample Programming method.	Pass	Kailas Ghait 09/12/2020
02	Loading and Processing of samples	Tray cover opened and samples loaded in sample tray placed in sample supply.	Pass	Kailas Ghait 09/12/2020
03	Programming samples	Sample program assigned for selected tray.	Pass	Kailas Ghait 09/12/2020
04	Processing samples	Samples are processed automatically by the system.	Pass	Kailas Ghait 09/12/2020
05	Unloading the samples	Tray cover opened and processed sample tray unloaded.	Pass	Kailas Ghait 09/12/2020
06	Viewing samples in process	Sample under process are displayed on the 'View Sample Status' Screen.	Pass	Kailas Ghait 09/12/2020

Test: 5

: Performing Calibration

Purpose

: To calibrate the system for every new lot of assay

Reference

: Operator Reference Guide (pages 10-1 to 10-9)

Summary: The system requires its own calibration for every individual assay to measure the analytic concentration as well as to accept reagent pack status ready for processing. Assay calibration is a process that relates the response of the system to analyte concentration or activities. Calibration is performed periodically to adjust for changes in the system, assay protocols, or assay reagent lots.

and the state of the control of the

The system requires calibration for individual assays when:

• A new assay is uploaded to the system

- The calibration expires (up to 28 days after it is processed, depending on the assay, refer to the package insert for expiration information)
- An assay reagent lot number changes
- Government regulations specified
- · An assay's protocol changes

You also may need to perform calibration when:

- Certain service procedures are performed
- Quality control performance is out of range

Sr.	Activity	Observation	Remarks	Done By
No.			Pass / Fail	Date
01	Load New ADD via CD or Downloaded file (New Gen Lot, Protocol, reagent lot calibration, Diluents lot information).	Calibrator identified and updated for protocol & master calibration data.	Pass	Kailas Ghait 09/12/2020
02	Preparing calibrators.	Calibrators are ready for processing.	Pass	Kailas Ghait 09/12/2020
03	Performing Calibration with Bar code label.	System recognizes the barcode and processing the calibration automatically.	Pass	Kailas Ghait 09/12/2020
04	Performing Calibration with Sample processing screen.	In the sample programming, the calibration program is assigned and processed the calibration assigned for each assay.	Pass	Kailas Ghait 09/12/2020

05	Calibration report.	Calibration completed successfully. Report printed.	Pass	Kailas Ghait
				09/12/2020

Test: 6

: Maintenance & System Clean

Purpose

: Clean appropriate modules to maintain Accuracy and precision.

Reference Summary:

: Operator Reference Guide 16-13 to 16-17

Maintenance procedures tasks that are performed to keep the system operating properly. Maintenance protocols to be performed according to the recommended schedule (daily, weekly, monthly, or as required). Ensure that we need to use 70% Isopropyl alcohol to disinfect the appropriate module to keep cleanliness and maintain the accuracy & precision.

The Maintenance is classified into four-category ie.,

- 1. Daily Maintenance
- 2. Weekly Maintenance
- 3. Monthly Maintenance
- 4. As required Maintenance

Daily Maintenance: Pages from 16-14 to 16-15

Sr. No.	Activity	Observation	Remarks Pass/Fail	Done By
01	Perform Metering Maintenance	Metering Maintenance Performed	Pass	Kailas Ghait 09/12/2020
02	Empty Solid and Liquid waste container	Solid & Liquid waste containers are emptied.	Pass	Kailas Ghait 09/12/2020
03	Remove outdated or empty reagent packs, Signal Reagent packs and Universal Wash Buffer		Pass	Kailas Ghait 09/12/2020
04	Inspect sample trays and adaptors	Sample Trays are cleaned.	Pass	Kailas Ghait 09/12/2020
05	Clean the SR Probe assembly	SR Probes are cleaned.	Pass	Kailas Ghait

<u> </u>				09/12/2020
06		All the required reagent packs are loaded and updated in the system as required.		Kailas Ghait 09/12/2020
07	Run Q.C fluids	Q.C samples are processed successfully.	Pass	Kailas Ghait 09/12/2020

Weekly Maintenance: Pages from 16-15 to 16-16

- 1	r. o.	Activity	Observation	Remarks	*
0		Clean the Micro well Incubator.	Micro well incubator – Inner ring, outer ring, middle ring, shuttle weight, drop holes, Luminometer FOB, Wash reagent and signal reagent	Pass/Fail Pass	Date Kailas Ghait 09/12/2020
02	2	Clean the Primary tip sealer.	probes are cleaned. Primary Tip Sealer cleaned.	Pass.	Kailas Ghait 09/12/2020
03	3	Clean the Secondary Tip Sealer.	Secondary Tip Sealer cleaned.	Pass	Kailas Ghait 09/12/2020
04	+	Clean the Sample Supply and Cap Retainer.	Cap Retainer & Sample Supply cleaned.	Pass	Kailas Ghait 09/12/2020
05	;	Clean the Touch Screen Monitor & Keyboard.	Touch Screen Monitor & Key board Clean Done.	Pass	Kailas Ghait 09/12/2020
06	5	Run the maintenance Pack for Subsystem cleaning.	Maintenance pack is loaded; subsystem cleaning done automatically by the system.	Pass	Kailas Ghait 09/12/2020
07	'	Run QC Fluids	Q.C Processed successfully.	Pass	Kailas Ghait 09/12/2020

Monthly Maintenance: Pages from 16-15 to 16-16

			1	T
Sr.	Activity	Observation	Remarks	Done By
No.			Pass/Fail	Date
01	Clean Micro sensor Cover & Ring Area.	Micro Sensor Cover & Ring Surface cleaned.	Pass	Kailas Ghait 09/12/2020
02	Inspect/Clean Micro Immuno Assay reagent Supply top	Micro Immuno Assay Reagent Supply top Cover Inspected and		Kailas Ghait 09/12/2020
		Cleaned:	The trade of the second second	and the second second
03	Clean VITROS Versa Tip supply Registration Rail.	Versa tip Supply Registration Rail cleaned.	Pass	Kailas Ghait
04		Reagent cooler filter removed & cleaned.	Pass	Kailas Ghait 09/12/2020
05	Replace Vapors adsorption cartridge for every two months.	Every two months once, VAC replaced.	Pass	Kailas Ghait 09/12/2020
06	Make a backup of Q.C, Calibration and Configuration.	Backup of QC, Calibration and Configuration made successfully.	Pass	Kailas Ghait 09/12/2020
07	Inspect / Clean Master Computer Filter.	Inspected and Cleaned Master computer Air Filter.	Pass	Kailas Ghait 09/12/2020

Test: 7

: Managing reagents Inventory and Supply

Purpose

: To Maintain & monitor the status of reagents or supply required for assay

processing.

Reference

: Operator Reference Guide (pages 15-1 to 15-7)

Summary: The Reagent Management feature enables you to review current inventory Information for the reagents loaded on the system. Using this function, you can load and unload reagents as necessary. To maintain the required reagents in the system for processing, the operator should reagent the Reagent management screen.

Sr.	Activity	Observation	Remarks	Done By
No.			Pass/Fail	Date
01	Review the reagent inventory to plan for the day.	The reagent inventory for the day planned.	Pass	Kailas Ghait 09/12/2020
02	Loading of Reagent Pack automatically	Required Reagent Packs loaded automatically by software request.	Pass	Kailas Ghait 09/12/2020
03	Loading of Reagent Pack with help of Manual Lot Entry button.	Requested Lot Information fed and the reagent pack loaded.	Pass	Kailas Ghait 09/12/2020
04	Loading of Signal Reagent automatically.	SR Pack loaded in position 1 & 2 and accepted by barcode reading.	Pass	Kailas Ghait 09/12/2020
05	Loading of Signal Reagent with Manual Load Button.	SR packs information fed and loading done.	Pass	Kailas Ghait 09/12/2020
06	Loading of Universal Wash Buffer	UWR buffer loading done through Load supply Software icons.	Pass	Kailas Ghait 09/12/2020
07	Unloading of Reagents	The entire Empty & expired reagents packs are unloaded by Load/Unload software icons.	Pass	Kailas Ghait 09/12/2020

Test: 8 : Performing Quality control

Purpose: Quality Control (QC) is important in determining the performance and accuracy of the system. To perform Quality Control, QC materials are run with either known, or unknown values along with patient samples to determine whether the system is functioning within the established ranges for your lab.

Reference : Operator Reference Guide (Pages 9-6 to 9-8)

Summary: Performing quality control procedures is an important part of using or maintaining the system. This section explains:

When you should perform quality control

 How to choose a control fluid

The recommended frequency for processing quality control fluids is once in every 24 hours. However, the frequency with which you perform quality control procedures may vary, depending on the requirements and regulations for processing control fluids by your national, state, provincial, and local governments. Quality control procedures within your own Laboratory may also require a different frequency. You should also perform quality control procedures when:

· Assays have been calibrated

• Certain service procedures are performed, other than routine maintenance

Sr.	Activity	Observation	Remarks	Done By
No.			Pass / Fail	Date
10	Choosing the Control fluid	Required control fluid identified.	Pass	Kailas Ghait
02	Preparing Liquid or Lyophilized control fluids	Control fluid prepared and ready for processing.	Pass	09/12/2020 Kailas Ghait 09/12/2020
03	Creating QC file.	Q.C file created for assay in the system according to control fluid.	Pass	Kailas Ghait 09/12/2020
04	Process QC samples	QC samples are programmed in the sample programming window and the QC samples are loaded and processed automatically	Pass	Kailas Ghait . 09/12/2020
05	Review Q.C result.	Processed Q.C results are reviewed and found satisfactory.	Pass	Kailas Ghait 09/12/2020
06	Display & printing graph.	Q.C graph reviewed and printed.	Pass	Kailas Ghait 09/12/2020

	07	Managing Quality control	Required reports printed and filed.		Kailas Ghait
1	*	Reports		Pass	
					09/12/2020

Test: 9

: Result Review.

Purpose

: To review the processed results in the system.

Reference

: Operator Reference Guide (Pages 11-1 to 11-6)

Summary:

The Results Review function helps to evaluate result records for patient and quality control samples. The results will be displayed along with the Reagents Lot information, Dilution

information & if there is any error codes or Flags.

Kesult records contain the data generated by the system when assays are processed. The system can store up to 25,000 result records. When this limit is reached, new result records overwrite the oldest records. The system permanently deletes the overwritten records from computer memory.

Sr.	No. Activity	Observation	Remarks	Done By
			Pass / Fail	Date
01	Update List.	Sample under process status displayed with all information.	Pass	Kailas Ghait 09/12/2020
02	Monitoring Results.	Completed Recent Assay Results displayed on the screen.	Pass	Kailas Ghait 09/12/2020
03	Filter Results.	Processed Assay Results displayed as per the selected criteria.	Pass	Kailas Ghait 09/12/2020
04.	Edit Patient Data	User can Edit/Add Patient Demography information, but the Patient ID will remain same.	Pass	Kailas Ghait 09/12/2020
05	Retrieving and Reviewing Archive Results by Set Report Status.	Archived Results are updated successfully in the CD/Pen Drive. The same Retrieved from the CD/Pen Drive.	Pass	Kailas Ghait 09/12/2020
06	Managing Reports by Set Report Status.	Required Reports got printed and filed.	Pass	Kailas Ghait 09/12/2020
07	Integrated Codes and Flags	Reported Codes and Flags are referred in Flags and Code chart. Necessary corrective action taken.	Pass	Kailas Ghait 09/12/2020

Test: 10 : Result Intellicheck.

Purpose: To check the Integrity of Performed assays.

Reference: Operator Reference Guide (Pages 11-8 to 11-9).

Summary: The Result Intellicheck screen to view Intellicheck Technology Verifications performed for each sample and assay processed. For the selected result record, you can view verification data and detected exceptions for each analyte.

Example:

-To-Analysis Litelli Report, scleet the sample ID-listed on result review porcen.

• On Review results screen, touch the 'Result Intellicheck' Icon.

• Result Intellicheck report comes on the screen.

• Check the parameters of Sample Metering, Sample + Reagent volume, Signal reagent volume and well wash verification for their acceptance.

• Take print of the Result Intellicheck report.

Acceptance criteria:

Sr.			Remarks	Done By
No.	Parameter	Acceptance limit	Pass / Fail	Date
01	Sample Metering	Against all the parameters,		Kailas Ghait
	• Clot	"No" should be displayed	Pass	
	Bubble	on screen		09/12/2020
	Short sample			
	 Viscosity 			
	Thin layer of fluid			
02	Reagent Metering	No Exception.		Kailas Ghait
	Sample + Reagent	Range: 12700 – 19000	Pass	
	volume	_		09/12/2020
03	Signal Reagent	No Exception		Kailas Ghait
-		Range: 17500 – 22800	Pass	
· · · · · · · · · · · · · · · · · · ·				09/12/2020
04	Well wash verification	No Exception		Kailas Ghait
•		Range: 21300 – 25000	Pass	
		****		09/12/2020
05	Luminometer –	No Exception		Kailas Ghait
	Self calibration	,	Pass	
				09/12/2020

Test: 9 : Option & Configuration

Purpose : To setup the system as per laboratory requirement

Reference: Operator Guide (Pages 11-8 to 11-14)

Summary: The Options & Configuration function provides many features for customizing your VITROS® 5600 Integrated System. It is organized into three main groups:

• Configure Analyte Data & Review/Edit Calibration Data

• System Setup

- System Services

Selections within these groups allow you to customize analyte parameters, review calibration data, perform user calibrations, configure and set system parameters, review usage inventory, configure e-Connectivity® and network device parameters, configure printer, laboratory computer and auxiliary ports, perform backup for quality control, calibration and configuration files and perform an archive procedure for result records.

Procedure:

	euure.		W	
Sr.			Remarks	Done By
No.	Activity	Observation	Pass / Fail	Date
01	Configure Assays	Analyte parameters are configured as desired by laboratory.	Pass	Kailas Ghait 09/12/2020
02	Review / Edit Calibration Data	Calibration data updated.	Pass	Kailas Ghait 09/12/2020
03	Configure System Setup	Required subsystem configuration is done successfully.	Pass	Kailas Ghait 09/12/2020
04	Configure Subsystem Setup	The required subsystem can be disabled / deactivated as per needs.	Pass	Kailas Ghait 09/12/2020
05	Configure Report Control	System report parameter has set for printer & LIS.	Pass	Kailas Ghait 09/12/2020
06	Configure Communication	System interface protocol set for Laboratory Information System (LIS), Ethernet and e-Connectivity® communications,	Pass	Kailas Ghait 09/12/2020
07	Configure Demography	Global demographic attributes to be used when configuring age, sex, and normal ranges for specific	Pass	Kailas Ghait 09/12/2020

			assay/body fluids is defined.		
0	3	System Services	Shall be performed and		Kailas Ghait
		1.Datalogger	reviewed as & when required.	Pass	
		2.Perform Backup			09/12/2020
-		3.Usage Counters			
		4.Option Summary			
		5.Load System Data			
Ŀ					

V. Operational procedure:

sc-Cortificate of Training

1. Technician Training

This certifies that the technicians have received basic user training in the following categories for the system described in this Operational Qualification.

Mr. Kailas Ghait, Sr. Territory Manager from Ortho Clinical Diagnostics has conducted the training.

Sr. No.	Training program	Initials	Date
1.	Instrument Setup	Kailas Ghait	
2.	System Operation	Kailas Ghait	
3.	Basic trouble shooting and Maintenance	Kailas Ghait	

2. Operator Training

The users responsible for the operation of this equipment have been trained in the proper usage of the system. Training focused on the basic operation and maintenance of the system.

Sr. No.	Operators	Department	Initials	Date	
1.					
2.					
3.					
4.	Andrewskie gert film er	AND THE PROPERTY WHITE PURCH A CHEST WAS THE		A MAN AND AND AND AND AND AND AND AND AND A	
5.					
6.					
7.					
8.	`		717		

b. Customer SOP / Manuals:

Title	Number	Version	Verified by	Date
Vitros 5600				
Integrated System				
Reference Guide				
Microslide				
Instruction for use				
Manual				
Microtip Chemistry				
Instruction For Use				
Manual				
Micro Well				
Instruction For Use				
Manual	·			

VI. COMMENTS:			
Deviation:			
Nil			
ر موري ها در ميستند ما داده ما ميساد الله منسود ما در او در در او در	ing ang ang ang ang ang ang ang ang ang a	and the second of the second o	
Impact On Operat	ion:		
Nil			
	·		
Corrective Action:			
Nil			

VII. SYSTEM CERTIFICATION

Study data has determined that the system described in this document either meets all criteria outlined in this Operational Qualification Protocol, or exceptional conditions have been identified and documentation included. Exceptional conditions, if any, have been / not been addressed. The system is ready for Performance Qualification.

Protocol Performe	d By	v: Ortho	Clinical	Diagnostics	Representative

Name

Kailas Ghait

Signature:

Designation

Sr. Territory Manager

Date: 10/12/2020

Shorts

Company

Ortho Clinical Diagnostics

Validation Team From Central Clinical Laboratory Pravara Rural Hospital:

Name

: Mr K. N. Hotkara

Designation

: ASSO. POOP.

Department

: Brochemistery

Name

: mo showac s. R

Designation

: SE. Leb Feet.

Date: 10/14 2000

Department

: Brochemistry

Customer Authorizations:

Name

Bors. H. Jangle Siz

Designation:

poof € Heard Brodsemistry

Date

: 10 (12/2020

PROFESSOP & HEAD DEPARTMENT OF BIOCHEMISTRY RURAL MEDICAL COLLEGE LOMI-413738, (M.S.)INDIA

Page 24 of 24

SYSTEM NAME: 5601041

ASSAY: CHOL FLUID: Serum Status: Passed

KIT LOT: 0230

CAL DATE/TIME: 7/12/2020 12:34:10 REAGENT GEN/LOT: 08435770

OP ID:

· SITE TEMP: 29.3C

SUPPLY HUMIDITY: 33

PARAME	TERS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE
INTERCEPT:	6.83330			mg/dL	
SLOPE:	93.9901	1	1	48	0.502765
CURVATURE/SLOPE2:	0.731799	2	2	183	0.917953
		3	3	421	1.30600

End of Report

PAGE 1

SYSTEM NAME: 5601041

ASSAY: CHOL

FLUID: Serum

KIT LOT: 0230

CAL DATE/TIME: 24/1/2022 12:41:31 8 REAGENT GEN/LOT: 08459641

Status: Passed OP ID:

SITE TEMP: 27.3C

SUPPLY HUMIDITY: 33

PARAME	TERS	I	EVEL	BOTTLE	CALIB VALUE	RESPONSE	
INTERCEPT:	5.02189				mg/dL		
SLOPE:	93.7497		1	1	45	0.490888	
CURVATURE/SLOPE2:	0.812442	-	2	2	184	0.904349	
			3	3	410	1.29182	

End of Report

PAGE 1

SYSTEM NAME: 5601041

ASSAY: Mg FLUID: Serum Status: Passed

KIT LOT: 0189

CAL DATE/TIME: 7/12/2020 16:31:09 REAGENT GEN/LOT: 32064887

OP ID: SITE TEMP: 29.2C

SUPPLY HUMIDITY: 32

		i,					
PARAME	TERS	Ŀl	EVEL	BOTTLE	CALIB VALUE	RESPONSE	
INTERCEPT:	0.345463				mg/dL		
SLOPE:	101.261		1	1	0.7	0.964788	
CURVATURE/SLOPE2:	21.1311		2	2	3.6	1.37181	*
			3	3	9.3	2.01105	
			-	J	J.3	2.01203	

End of Report

PAGE 1

SYSTEM NAME: 5601041

ASSAY: Mg FLUID: Serum

KIT LOT: 0110

CAL DATE/TIME: 16/9/2021 11:21:29 REAGENT GEN/LOT: 32068342

Status: Passed OP ID:

SITE TEMP: 28.8C

SUPPLY HUMIDITY: 34

PARAMETERS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE
INTERCEPT: 0.361532			mg/dL	
SLOPE: 101.621	1	1	0.8	0.976550
CURVATURE/SLOPE2: 103.589	2	2	3.8	1.38205
	3	. 3	9.6	1.99126

End of Report

PAGE 1

CALIBRATION REPORT SYSTEM NAME: 5601041

ASSAY: dHDL

FLUID: Serum

KIT LOT: 2599

CAL DATE/TIME: 7/12/2020 12:35:54 a
REAGENT GEN/LOT: 11256686

Status: Passed

OP ID:

SITE TEMP: 29.4C

SUPPLY HUMIDITY: 33

End of Report	PAGE 1		DDING DAGE/GIME	4/4/2022 11.20.53	
EXPIRED CALIBRATOR					
	3	3	121	0.900070	•
CURVATURE/SLOPE2: -11.6830	2	. 5	. 40	0.611254	
SLOPE: 110.023	1	1	7	0.331437	
INTERCEPT: -0.901667			mg/dL	•	
PARAMETERS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE	

SYSTEM NAME: 5601041

ASSAY: dHDL

FLUID: Serum

Status: Passed

KIT LOT: 2540

CAL DATE/TIME: 5/1/2022 12:42:27 REAGENT GEN/LOT: 11322283

OP ID: SITE TEMP: 28.2C

SUPPLY HUMIDITY: 31

	PARAME		LEVEL	BOTTLE	CALIB VALUE	RESPONSE
٠	INTERCEPT:	-0.244157			mg/dL	
	SLOPE:	93.8445	1	1	7	0.342356
	CURVATURE/SLOPE2:	9.57231	2	2	34	0.598629
			3	3	108	0.836760

End of Report

PAGE 1

SYSTEM NAME: 5601041

ASSAY: URIC FLUID: Serum

KIT LOT: 0189

CAL DATE/TIME: 7/12/2020 16:30:12 **
REAGENT GEN/LOT: 05386491

Status: Passed

OP ID: SITE TEMP: 29.2C

SUPPLY HUMIDITY: 32

PARAME		LEVEL	BOTTLE	CALIB VALUE	RESPONSE
INTERCEPT:	0.0487304			mg/dL	
SLOPE:	103.169	<u>1</u>	1	0.7	0.193693
CURVATURE/SLOPE2:	11.5468	2	2	5.9	0.692233
•		3	3	16.5	1.34432

End of Report

PAGE 1

SYSTEM NAME: 5601041

ASSAY: URIC FLUID: Serum

KIT LOT: 0110

CAL DATE/TIME: 27/11/2021 16:02:07 REAGENT GEN/LOT: 05489467

Status: Passed

. OP ID: SITE TEMP: 27.3C

SUPPLY HUMIDITY: 34

PARAME INTERCEPT:	TERS -0.00268656	LEVEL	BOTTLE	CALIB VALUE mg/dL	RESPONSE
SLOPE:	102.623	1	1	0.9	0.236541
CURVATURE/SLOPE2:	8.31990	2	2	5.8	0.707108
		3 .	3	16.6	1.38348

End of Report

PAGE 1

SYSTEM NAME: 5601041

ASSAY: PHOS FLUID: Serum

KIT LOT: 0189

CAL DATE/TIME: 7/12/2020 16:30:31 \$
REAGENT GEN/LOT: 12494857

Status: Passed

OP ID: SITE TEMP: 29.2C

SUPPLY HUMIDITY: 32

PARAME		LEVEL	BOTTLE	CALIB VALUE	RESPONSE
INTERCEPT:	0.0524050			mg/dL	
SLOPE:	97.3316	1.	1	1,1	0.234234
CURVATURE/SLOPE2:	89.6172	2	2	5.3 ·	0.468303
		3	3	12.5	0.690562
		,			

End of Report

PAGE 1

SYSTEM NAME: 5601041

ASSAY: PHOS FLUID: Serum

KIT LOT: 0110

CAL DATE/TIME: 9/12/2021 10:53:30 \$\frac{2}{3}\$
REAGENT GEN/LOT: 12483461

Status: Passed OP ID:

SITE TEMP: 29.0C

SUPPLY HUMIDITY: 35

PARAMETERS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE
INTERCEPT: 0.546283			mg/dL	
SLOPE: 86.2334	1	1	1.2	0.217389
CURVATURE/SLOPE2: 213.892	2	2	5.6	0.473451
•	3	3	12.9	0.680923

End of Report

PAGE 1

SYSTEM NAME: 5601041

ASSAY: UREA FLUID: Serum

KIT LOT: 0189

CAL DATE/TIME: 7/12/2020 16:29:34 REAGENT GEN/LOT: 01315247

Status: Passed OP ID:

SITE TEMP: 29.2C

SUPPLY HUMIDITY: 32

PARAME	=	LEVEL	BOTTLE	CALIB VALUE	RESPONSE
INTERCEPT:	0.341656			mg/dL(A)	
SLOPE:	102.395	1	1	7	0.136546
CURVATURE/SLOPE2:	-1.60288	2	. 2	107	0.974153
		3	. 3	233	1.80207

End of Report

PAGE 1

SYSTEM NAME: 5601041

ASSAY: UREA FLUID: Serum

KIT LOT: 0110

CAL DATE/TIME: 30/11/2021 14:31:37 REAGENT GEN/LOT: 01318070

Status: Passed

OP ID: SITE TEMP: 27.6C

SUPPLY HUMIDITY: 34

4	_	mg/dL(A)	
1	1	8	0.149922
2	. 2	105	0.949782
3	. 3	236	1.73500
	2	2 2 3 3	- ,

End of Report

PAGE 1

SYSTEM NAME: 5601041

ASSAY: AMYL FLUID: Serum

Status: Passed

KIT LOT: 0310

CAL DATE/TIME: 7/12/2020 16:52:50 REAGENT GEN/LOT: 60052712

OP ID: SITE TEMP: 29.4C

SUPPLY HUMIDITY: 31

PARAME'	TERS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE
INTERCEPT:	6.31413			n/r	
SLOPE:	97.5707	1	1	25	0.006800
CURVATURE/SLOPE2:	-0.764502	2	2	359	0.046370
SUB DEP DENS:	1.23509	3	3	978	0.106931

End of Report

PAGE 1

SYSTEM NAME: 5601041

ASSAY: AMYL FLUID: Serum

Status: Passed

KIT LOT: 0320

CAL DATE/TIME: 7/10/2021 10:58:30 \$
REAGENT GEN/LOT: 60169168

OP ID: SITE TEMP: 28.5C

SUPPLY HUMIDITY: 34

PARAME INTERCEPT:			LEVEL	BOTTLE	CALIB VALUE U/L	RESPONSE
SLOPE:	112.761		1	1	51	0.009416
CURVATURE/SLOPE2:	2.95956	•	2	2	392	0.045173
SUB DEP DENS:	1.18001		-3	3	997	0.091037

End of Report

PAGE 1

SYSTEM NAME: 5601041

ASSAY: Ca FLUID: Serum

KIT LOT: 0189

CAL DATE/TIME: 7/12/2020 16:30:50 8
REAGENT GEN/LOT: 03353622

Status: Passed

OP ID: SITE TEMP: 29.2C

SUPPLY HUMIDITY: 32

		*					
PARAME	ETERS	LEVEL	BOTTLE	CALIB '	VALUE		RESPONSE
INTERCEPT:	0.0592083			mg/d	1L		
SLOPE:	95.9383	1	3		1.9		0.672478
CURVATURE/SLOPE2:	0.000000000000	2	2	•	9.0		1.09009
		3	1		14.2	**	1.30235

End of Report

PAGE 1

SYSTEM NAME: 5601041

ASSAY: Ca FLUID: Serum

Status: Passed

KIT LOT: 0110

CAL DATE/TIME: 30/11/2021 14:32:53 REAGENT GEN/LOT: 03039170

OP ID: SITE TEMP: 27.5C

SUPPLY HUMIDITY: 34

PARAMETERS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE
INTERCEPT: 0.0384845			mg/dL	
SLOPE: 95.6149	1	3	1.7	0.683448
CURVATURE/SLOPE2: 0.000000000000	2	2	9.0	1.12001
	3	1	13.9	1.33930

End of Report

PAGE 1

SYSTEM NAME: 5601041

ASSAY: GLU

FLUID: Serum Status: Passed

KIT LOT: 0189

CAL DATE/TIME: 7/12/2020 16:29:53 REAGENT GEN/LOT: 00493273

OP ID:

SITE TEMP: 29.2C

SUPPLY HUMIDITY: 13

PARAMETERS INTERCEPT: -0.382906	LEVEL	BOTTLE	CALIB VALUE	RESPONSE
SLOPE: 100.090	1	1	29	0.251579
CURVATURE/SLOPE2: 0.0730982	2	2	264	1.04565
	3	3	574	1.58001

End of Report

PAGE 1

SYSTEM NAME: 5601041

ASSAY: GLU FLUID: Serum

KIT LOT: 0110

CAL DATE/TIME: 17/12/2021 10:33:26 REAGENT GEN/LOT: 00098952

Status: Passed

OP ID: SITE TEMP: 29.7C

SUPPLY HUMIDITY: 13

PARAMET	rers	LEVEL	BOTTLE	CALIB VALUE	RESPONSE
INTERCEPT:	1.63615			mg/dL	
SLOPE:	96.2517	1	.1	33	0.266175
CURVATURE/SLOPE2:	0.584552	2	2	293	1.12835
		3	3	565	1,57345

End of Report

PAGE 1

SYSTEM NAME: 5601041

ASSAY: CREA

FLUID: Serum Status: Passed

KIT LOT: 0189

CAL DATE/TIME: 7/12/2020 16:29:15 REAGENT GEN/LOT: 15316476

OP ID:

SITE TEMP: 29.2C

SUPPLY HUMIDITY: 13

PARAMETER: INTERCEPT: -0.	- .	LEVEL	BOTTLE	CALIB VALUE mg/dL	RESPONSE
SLOPE: 105	.455	1	1	0.4	0.002851
CURVATURE/SLOPE2: 0.0	0000000000	2	2	1.5	0.009460
SUB DEP DENS: 0.4	54137	3	3	13.1	0.069085

End of Report

PAGE 1

SYSTEM NAME: 5601041

ASSAY: CREA FLUID: Serum

Status: Passed

KIT LOT: 0110

CAL DATE/TIME: 30/11/2021 14:31:11 REAGENT GEN/LOT: 15319728

OP ID: SITE TEMP: 27.6C

SUPPLY HUMIDITY: 13

PARAME INTERCEPT:	TERS -0.0541661	LEVEL	BOTTLE	CALIB VALUE	RESPONSE
SLOPE:	111.969	1	1	0.6	0.003826
CURVATURE/SLOPE2:	0.00000000000	2	2	1.5	0.009536
SUB DEP DENS:	0.430258	3	3	13.2	0.065823

End of Report

PAGE 1

SYSTEM NAME: 5601041 CALIBRATION REPORT

ASSAY: ALTV FLUID: Serum

KIT LOT: 0310

CAL DATE/TIME: 7/12/2020 12:33:03 REAGENT GEN/LOT: 56024772

Status: Passed OP ID:

SITE TEMP: 29.4C

SUPPLY HUMIDITY: 13

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204
3

End of Report

PAGE 1

CALIBRATION REPORT SYSTEM NAME: 5601041

ASSAY: ALTV FLUID: Serum

KIT LOT: 0320

CAL DATE/TIME: 27/11/2021 17:35:12 | REAGENT GEN/LOT: 56060225

Status: Passed

OP ID:

SITE TEMP: 26.8C

SUPPLY HUMIDITY: 13

PARAME	TERS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE
INTERCEPT:	0.180227			U/L	
SLOPE:	100.658	1	1	9	0.011726
CURVATURE/SLOPE2:	0.252039	2	2	216	0.137514
SUBS DEPL DENS:	0.505881	3	3	761	0.404376
DELTA DENSITY:	NA				
1ST POINT REF:	3.15859	,			

End of Report

PAGE 1

SYSTEM NAME: 5601041 CALIBRATION REPORT

ASSAY: AST

FLUID: Serum

KIT LOT: 0310

CAL DATE/TIME: 7/12/2020 12:32:06 9 REAGENT GEN/LOT: 73265542

Status: Passed OP ID:

SITE TEMP: 29.4C

SUPPLY HUMIDITY: 13

PARAMETERS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE
INTERCEPT: 0.177577			υ/L	
SLOPE: 101.982	1	1	16	0.005903
CURVATURE/SLOPE2: -0.355190	2	2	223	0.078792
SUBS DEPL DENS: 0.525980	3	3	750	0.263029
DELTA DENSITY: NA				
1ST POINT REF: 7.47784	•	-		

End of Report

PAGE 1

SYSTEM NAME: 5601041

ASSAY: AST

FLUID: Serum Status: Passed KIT LOT: 0320

CAL DATE/TIME: 9/3/2022 11:47:24 REAGENT GEN/LOT: 73285153

OP ID:

SITE TEMP: 29.1C

SUPPLY HUMIDITY: 13

PARAMET	ERS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE
INTERCEPT: 3	44557			U/L	
SLOPE: 9	8.6854	1	1	15	0.005001
CURVATURE/SLOPE2: 0).983398	2	2	208	0.072998
SUBS DEPL DENS: 0	.489488	3	3 -	690	0.226543
DELTA DENSITY: N	JA			-	
1ST POINT REF: 7	7.03013	-		an .	

End of Report

PAGE 1

SYSTEM NAME: 5601041 CALIBRATION REPORT

ASSAY: TBIL FLUID: Serum

KIT LOT: 0460

CAL DATE/TIME: 10/1/2022 12:54:51 \$\frac{1}{2}\$
REAGENT GEN/LOT: 14483001

Status: Passed

OP ID: SITE TEMP: 30.3C

SUPPLY HUMIDITY: 35

PARAME INTERCEPT:		LEVEL	BOTTLE	CALIB VALUE	RESPONSE 1	RESPONSE 2
SLOPE:	31.8012	1	1	1.1	0.189014	0.197460
CURVATURE/SLOPE2:	3.80023	2	3	9.8	0.408233	0.329984
		3	2	17.6	0.520751	0.424288

End of Report

PAGE 1

SYSTEM NAME: 5601041 CALIBRATION REPORT

ASSAY: TBIL FLUID: Serum Status: Passed

KIT LOT: 0459

CAL DATE/TIME: 7/12/2020 12:42:53 § REAGENT GEN/LOT: 14406459

OP ID: SITE TEMP: 29.4C

SUPPLY HUMIDITY: 33

PARAME INTERCEPT:		LEVEL	BOTTLE	CALIB VALUE mg/dL	RESPONSE 1	RESPONSE 2
SLOPE:	34.8456	1	1	0.9	0.180457	0.199903
CURVATURE/SLOPE2:	1.43135	2	3	10.4	0.406751	0.325850
·		3	2	17.3	0.504729	0.407470

End of Report

PAGE 1

SYSTEM NAME: 5601041

ASSAY: Bu

FLUID: Serum

KIT LOT: 0459

CAL DATE/TIME: 5/12/2020 17:01:58 REAGENT GEN/LOT: 02465743

Status: Passed

OP ID:

SITE TEMP: 29.0C

SUPPLY HUMIDITY: 31

PARAME	ETERS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE 1	RESPONSE 2
INTERCEPT:	4.19194			mg/dL		
SLOPE:	295.712	1	1	0.6	0.128866	0.161449
URVATURE/SLOPE2:	-206.826	. 2	2	7.2	0.643274	0.550514
		3	3	10.2	0.485024	0.323911
		4	4	22.2	0.811303	. 0.532336

End of Report

PAGE 1

SYSTEM NAME: 5601041

ASSAY: Bu

FLUID: Serum

KIT LOT: 0460

CAL DATE/TIME: 20/10/2021 11:56:17 REAGENT GEN/LOT: 02079935

Status: Passed

OP ID: SITE TEMP: 28.5C

SUPPLY HUMIDITY: 34

PARAMETERS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE 1	RESPONSE 2
INTERCEPT: 2.86560			mg/dL		
SLOPE: 249.097	1	1	0.6	0.130505	0.164592
CURVATURE/SLOPE2: -207.053	· 2	2	6.8	0.641979	0.556780
	3	3	9.7	0.476381	0.314441
	4	4	21.7	0.789259	0.520370

End of Report

PAGE 1

CALIBRATION REPORT SYSTEM NAME: 5601041

ASSAY: Bc FLUID: Serum

Status: Passed

KIT LOT: 0460

CAL DATE/TIME: 20/10/2021 11:56:17 REAGENT GEN/LOT: 02079935

OP ID: SITE TEMP: 28.5C

SUPPLY HUMIDITY: 34

PARAMETE:	RS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE 1	RESPONSE 2
INTERCEPT: -4	4.57232			mg/dL		
SLOPE: -1	135.721	1.	1	0.1	0.130505	0.164592
CURVATURE/SLOPE2: 27	75.017	2	3	1.0	0.476381	0.314441
		3	4	8.0	0.789259	0.520370
		4	2	20.1	0.641979	0.556780

End of Report

PAGE 1

ASSAY: Bc FLUID: Serum

KIT LOT: 0459

CAL DATE/TIME: 5/12/2020 17:01:58 REAGENT GEN/LOT: 02465743

Status: Passed OP ID:

SITE TEMP: 29.0C

SUPPLY HUMIDITY: 31

PARAMETERS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE 1	RESPONSE 2
INTERCEPT: -6.60331			mg/dL		
SLOPE: -128.008	1	1	0.1	0.128866	0.161449
URVATURE/SLOPE2: 378.395	2	3	1,9	0.485024	0.323911
	3 .	4	8.8	0.811303	0.532336
	4	2	18.9	0.643274	0.550514

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:22:40

SYSTEM NAME: 5601041

SYSTEM NAME: 5601041 CALIBRATION REPORT

ASSAY: TRIG FLUID: Serum Status: Passed

KIT LOT: 0230

CAL DATE/TIME: 7/12/2020 12:34:38 REAGENT GEN/LOT: 07456467

OP ID:

SITE TEMP: 29.3C

SUPPLY HUMIDITY: 33

PARAME INTERCEPT:		LEVEL	BOTTLE	CALIB VALUE	RESPONSE
•	98.6622	. 1	1	35	0.267047
CURVATURE/SLOPE2:	1.92280	2	3	201	0.857672
		3	2	488	1.55527

End of Report

PAGE 1

CALIBRATION REPORT SYSTEM NAME: 5601041

ASSAY: TRIG FLUID: Serum

Status: Passed

KIT LOT: 0230

CAL DATE/TIME: 15/12/2021 09:53:55 REAGENT GEN/LOT: 07049833

OP ID:

SITE TEMP: 28.3C

SUPPLY HUMIDITY: 35

PARAMETERS INTERCEPT: -23.8010	LEVEL	BOTTLE	CALIB VALUE	RESPONSE
SLOPE: 109.158	1	1.	27	0.361645
CURVATURE/SLOPE2: -1.55834	2	3	200	0.886041
	3	2	463	1.62546

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:20:19

SYSTEM NAME: 5600703

ASSAY: Bc FLUID: Serum

SITE TEMP: 28.4C

Status: Passed OP ID:

KIT LOT: 0460

CAL DATE/TIME: 20/10/2021 11:47:15 REAGENT GEN/LOT: 02079935

SUPPLY HUMIDITY: 35

PARAMETERS INTERCEPT: -3.78743	LEVEL	BOTTLE	CALIB VALUE	RESPONSE 1	RESPONSE 2
SLOPE: -133.900	1	1	0.1	0.136440	0.162043
CURVATURE/SLOPE2: 254.194	2	3	1.0	0.482628	0.322557
	3	4	8.0	0.808774	0.545860
	4	2	20.1	0.654255	0.581417

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:34:40

SYSTEM NAME: 5600703

ASSAY: TRIG

FLUID: Serum Status: Passed

KIT LOT: 0257

CAL DATE/TIME: 4/7/2018 15:19:28 \$ REAGENT GEN/LOT: 07403027

OP ID:

SITE TEMP: 28.8C

SUPPLY HUMIDITY: 34

PARAME	TERS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE	
INTERCEPT:	-1.32195			mg/dL		
	97.1820	1	1	31	0.297328	
CURVATURE/SLOPE2:	0.352217	2	3	197	0.896307	
		3	2	472	1.61410	•

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:32:27

SYSTEM NAME: 5600703

ASSAY: TRIG FLUID: Serum

KIT LOT: 0230

CAL DATE/TIME: 14/12/2021 10:24:10 REAGENT GEN/LOT: 07049833

Status: Passed

OP ID:

SITE TEMP: 27.2C

SUPPLY HUMIDITY: 35

PARAMETERS INTERCEPT: -2.56962	LEVEL	BOTTLE	CALIB VALUE mg/dL	RESPONSE
SLOPE: 90.1671	1	1	27	0.292350
CURVATURE/SLOPE2: 2.14201	2	3	200	0.892900
	3	2	463	1.58789

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:32:16

SYSTEM NAME: 5600703

ASSAY: CHOL FLUID: Serum

KIT LOT: 0257

CAL DATE/TIME: 4/7/2018 15:19:09 REAGENT GEN/LOT: 08334811

Status: Passed

OP ID: SITE TEMP: 28.9C

SUPPLY HUMIDITY: 34

PARAMETERS INTERCEPT: -5.95069	LEVEL	BOTTLE	CALIB VALUE mg/dL	RESPONSE	
SLOPE: 112.935	1	1	. 27	0.503357	
CURVATURE/SLOPE2: -3.91375	2	2	186	0.906140	
·	3	3	445	1.31943	

End of Report

PAGE 1

PRINT DATE/TIME: 5/4/2022 11:09:25

SYSTEM NAME: 5600703

ASSAY: CHOL FLUID: Serum

Status: Passed

KIT LOT: 0230

CAL DATE/TIME: 24/1/2022 12:31:37a REAGENT GEN/LOT: 08459641

OP ID: SITE TEMP: 26.1C

SUPPLY HUMIDITY: 34

PARAMETERS INTERCEPT: 3.07877	LEVEL	BOTTLE	CALIB VALUE mg/dL	RESPONSE
SLOPE: 96.9900	1	1	45	0.494310
CURVATURE/SLOPE2: 0.129873	-2	2	184	0.900709
	3	3	410	1.29231

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:31:16

SYSTEM NAME: 5600703

ASSAY: Mg FLUID: Serum

Status: Passed

KIT LOT: 0147

CAL DATE/TIME: 3/7/2018 16:51:06 2 REAGENT GEN/LOT: 32012101

OP ID:

SITE TEMP: 28.6C

SUPPLY HUMIDITY: 35

PARAME INTERCEPT:		LEVEL	BOTTLE	CALIB VALUE mg/dL	RESPONSE
SLOPE:	99.5047	1	1	0.6	0.990735
CURVATURE/SLOPE2:	-10.1133	2	2	3.8	1.45299
		3	3	9.4	2.08643

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:30:17

SYSTEM NAME: 5600703

ASSAY: Mg FLUID: Serum Status: Passed

KIT LOT: 0110

CAL DATE/TIME: 1/4/2022 15:09:50 \$ REAGENT GEN/LOT: 32068342

OP ID:

SITE TEMP: 28.1C

SUPPLY HUMIDITY: 33

RESPONSE	CALIB VALUE	BOTTLE	LEVEL	TERS	PARAME
	mg/dL			0.382835	INTERCEPT:
0.969862	0.8	1	1	108.008	SLOPE:
1.35466	3.8	2	2	99.0107	CURVATURE/SLOPE2:
1.95383	9.6	3	3		•

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:29:11

SYSTEM NAME: 5600703

ASSAY: dHDL

FLUID: Serum

KIT LOT: 2517

CAL DATE/TIME: 3/7/2018 16:44:18 © REAGENT GEN/LOT: 11132158

Status: Passed

OP ID: SITE TEMP: 28.6C

SUPPLY HUMIDITY: 35

PARAMETERS INTERCEPT: -0.568620	LEVEL	BOTTLE	CALIB VALUE mg/dL	RESPONSE	
SLOPE: 114.639	1	1	7	0.309458	
CURVATURE/SLOPE2: -7.63799	2	. 2	38	0.590698	
	3	3	116	0.848789	

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:34:22

SYSTEM NAME: 5600703

ASSAY: dHDL

FLUID: Serum

KIT LOT: 2540

CAL DATE/TIME: 5/1/2022 12:34:55 REAGENT GEN/LOT: 11322283

Status: Passed
OP ID:

SITE TEMP: 27.1C

SUPPLY HUMIDITY: 34

·	-			,	
PARAMETERS INTERCEPT: -0.511405	LEVEL	BOTTLE	CALIB VALUE	RESPONSE	
SLOPE: 100.498	1	1	7	0.337742	
CURVATURE/SLOPE2: 3.33635	2	2	34	0.591347	
	3	3.	108	0.836992	

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:33:00

SYSTEM NAME: 5600703

ASSAY: URIC

FLUID: Serum Status: Passed

KIT LOT: 0147

CAL DATE/TIME: 3/7/2018 16:50:00 REAGENT GEN/LOT: 05264220

OP ID:

SITE TEMP: 28.6C

SUPPLY HUMIDITY: 35

PARAMETERS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE
INTERCEPT: -0.0599467			mg/dL	
SLOPE: 113,225	1	1	0.6	0.197550
CURVATURE/SLOPE2: -32.8309	2	2	5.9	0.669581
	3	3	16.8	1.33787
•				

End of Report

PAGE 1

PRINT DATE/TIME: 5/4/2022 11:06:39

SYSTEM NAME: 5600703

ASSAY: URIC FLUID: Serum Status: Passed

CAL DATE/TIME: 30/11/2021 14:20:25 REAGENT GEN/LOT: 05489467

KIT LOT: 0110

OP ID: SITE TEMP: 26.6C

SUPPLY HUMIDITY: 34

PARAME	TERS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE	
INTERCEPT:				mg/dL		
	103.999	1	1	0.9	0.227342	
CURVATURE/SLOPE2:	10.2910	2	2	5.8	0.697498	
		3	3	16.6	1.36498	

End of Report

PAGE · 1

PRINT DATE/TIME: 4/4/2022 11:27:59

SYSTEM NAME: 5600703

ASSAY: PHOS

FLUID: Serum

KIT LOT: 0147

CAL DATE/TIME: 3/7/2018 16:50:19 REAGENT GEN/LOT: 12454254

Status: Passed OP ID:

SITE TEMP: 28.5C

SUPPLY HUMIDITY: 35

PARAMETERS INTERCEPT: -0.651375	LEVEL	BOTTLE	CALIB VALUE mg/dL	RESPONSE	
SLOPE: 106.397	1	1	1.1	0.257896	
CURVATURE/SLOPE2: -28.9960	2	2	5.3	0.484581	•
	3	3	13.0	0.730285	

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:30:53

SYSTEM NAME: 5600703

ASSAY: PHOS

FLUID: Serum Status: Passed

KIT LOT: 0110

CAL DATE/TIME: 9/12/2021 10:43:57 REAGENT GEN/LOT: 12483461

OP ID:

SITE TEMP: 28.3C

SUPPLY HUMIDITY: 35

PARAME INTERCEPT:		LEVEL	BOTTLE	CALIB VALUE	RESPONSE
SLOPE:	88.2428	1	1.	1.2	0.212526
CURVATURE/SLOPE2:	226.099	2	2	5.6	0.466079
		3	3	12.9	0.672439

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:30:40

SYSTEM NAME: 5600703

ASSAY: UREA

FLUID: Serum Status: Passed

KIT LOT: 0147

CAL DATE/TIME: 3/7/2018 16:49:22 REAGENT GEN/LOT: 01272909

OP ID:

SITE TEMP: 28.6C

SUPPLY HUMIDITY: 35

PARAMETERS INTERCEPT: 0.506021	LEVEL	BOTTLE	CALIB VALUE mq/dL(A)	RESPONSE	
SLOPE: 101.670	1	1.	8	0.158504	
CURVATURE/SLOPE2: 3.10863	2	2	106	0.972468	
	3	3	245	1.80051	

End of Report

PAGE 1

PRINT DATE/TIME: 5/4/2022 11:02:23

SYSTEM NAME: 5600703

ASSAY: UREA

FLUID: Serum

Status: Passed OP ID:

KIT LOT: 0110

CAL DATE/TIME: 30/11/2021 14:19:47 REAGENT GEN/LOT: 01318070

SITE TEMP: 26.7C SUPPLY HUMIDITY: 34

PARAME	TERS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE
INTERCEPT:	0.113747			mg/dL(A)	
SLOPE:	100.413	1	1	8	0.151459
CURVATURE/SLOPE2:	5.92787	2	2	105	0.950080
		3	3	236	1.74326

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:22:14

OP ID: · SITE TEMP: 28.5C SYSTEM NAME: 5600703

ASSAY: AMYL

FLUID: Serum

Status: Passed

KIT LOT: 0357

CAL DATE/TIME: 3/7/2018 16:55:32 REAGENT GEN/LOT: 60419833

SUPPLY HUMIDITY: 35

PARAME INTERCEPT:		LEVEL	BOTTLE	CALIB VALUE U/L	RESPONSE
SLOPE:	92.0541	1	1	36	0.009776
CURVATURE/SLOPE2:	-0.112352	2	2	363	0.051177
SUB DEP DENS:	1.17700	3	3	1098	0.114661

End of Report

PAGE 1

PRINT DATE/TIME: 5/4/2022 11:05:46

SYSTEM NAME: 5600703

ASSAY: AMYL

FLUID: Serum

KIT LOT: 0320

CAL DATE/TIME: 7/10/2021 10:51:00 \$ REAGENT GEN/LOT: 60169168

Status: Passed

OP ID: SITE TEMP: 28.5C

SUPPLY HUMIDITY: 35

PARAME INTERCEPT:	-	LEVEL	BOTTLE	CALIB VALUE U/L	RESPONSE
SLOPE:	106.919	1	1	51	0.009868
CURVATURE/SLOPE2:	2.79488	2	2	392	0.047469
SUB DEP DENS:	1.18899	3	3	997	0.094086

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:25:44

SYSTEM NAME: 5600703

ASSAY: Ca FLUID: Serum

KIT LOT: 0147

CAL DATE/TIME: 5/7/2018 16:35:33 \$ REAGENT GEN/LOT: 03013731

Status: Passed OP ID:

SITE TEMP: 29.1C

SUPPLY HUMIDITY: 33

PARAMI	ETERS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE
INTERCEPT:	-0.0211596		•	mg/dL	
SLOPE:	87.3436	1	. 3	2.1	0.692422
JRVATURE/SLOPE2:	0.00000000000	2	2	9.2	1.10824
		3	1	13.9	1.32929

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:29:00

SYSTEM NAME: 5600703

ASSAY: Ca FLUID: Serum

Status: Passed

KIT LOT: 0110

CAL DATE/TIME: 30/11/2021 14:21:03 REAGENT GEN/LOT: 03039170

OP ID: SITE TEMP: 26.5C

SUPPLY HUMIDITY: 34

PARAMETERS INTERCEPT: -0.00562739	LEVEL	BOTTLE	CALIB VALUE	RESPONSE
SLOPE: 89.1140	1	3	1.7	0.698419
CURVATURE/SLOPE2: 0.000000000000	2	2	9.0	1.15114
	3	1	13.9	1.38325

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:28:35

SYSTEM NAME: 5600703

ASSAY: GLU

FLUID: Serum

Status: Passed

KIT LOT: 0147

CAL DATE/TIME: 3/7/2018 16:49:41 \$ REAGENT GEN/LOT: 00254056

OP ID:

SITE TEMP: 28.6C

SUPPLY HUMIDITY: 13

PARAMETERS INTERCEPT: -3.48957	LEVEL	BOTTLE	CALIB VALUE mg/dL	RESPONSE	
SLOPE: 114.686	1	1	34	0.275070	
URVATURE/SLOPE2: -3.22903	2	2 .	302	1.12430	
	3	3	595	1.63088	

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:22:06

OP ID: SITE TEMP: 28.4C SYSTEM NAME: 5600703

ASSAY: GLU FLUID: Serum

Status: Passed

KIT LOT: 0110

CAL DATE/TIME: 17/12/2021 10:24:20

REAGENT GEN/LOT: 00098952

SUPPLY HUMIDITY: 13

PARAMETERS LEVEL BOTTLE CALIB VALUE . RESPONSE INTERCEPT: 0.267241 SLOPE: 97.6219 mg/dL 1 1 33 0.270005 CURVATURE/SLOPE2: 0.424132 2 2 293 1.12527 3 3 565 1.57205

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:21:39

SYSTEM NAME: 5600703

ASSAY: CREA FLUID: Serum

Status: Passed

OP ID:

SITE TEMP: 28.6C

KIT LOT: 0147

CAL DATE/TIME: 3/7/2018 16:49:03 REAGENT GEN/LOT: 15134267

SUPPLY HUMIDITY: 13

CALIB VALUE PARAMETERS LEVEL BOTTLE RESPONSE INTERCEPT: 0.00127209 SLOPE: 101.844 mg/dL 1 0.5 0.003100 CURVATURE/SLOPE2: 0.000000000000 2 2 1.6 0.009639 SUB DEP DENS: 0.421617 3 13.4 0.069430

End of Report

PAGE 1

PRINT DATE/TIME: 5/4/2022 11:18:50

SYSTEM NAME: 5600703

ASSAY: CREA FLUID: Serum

Status: Passed

KIT LOT: 0110

CAL DATE/TIME: 30/11/2021 14:19:18
REAGENT GEN/LOT: 15319728

OP ID: SITE TEMP: 26.8C

SUPPLY HUMIDITY: 16

PARAME INTERCEPT:	TERS -0.0343734	LEVEL	BOTTLE	CALIB VALUE	RESPONSE
SLOPE:	112.430	1	1	0.6	0.003698
CURVATURE/SLOPE2:	0.00000000000	. 2	2	1.5	0.009392
SUB DEP DENS:	0.425994	3	3	13.2	0.065449

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:23:20

SYSTEM NAME: 5600703

: ASSAY: ALTV FLUID: Serum

Status: Passed

KIT LOT: 0378

CAL DATE/TIME: 7/6/2019 12:18:33 REAGENT GEN/LOT: 56027506

OP ID: SITE TEMP: 30.1C

SUPPLY HUMIDITY: 13

PARAME' INTERCEPT:		LEVEL	BOTTLE	CALIB VALUE U/L	RESPONSE
,	101.641	1	1	4	0.006864
CURVATURE/SLOPE2:	-0.463149	2	2	222	0.142138
SUBS DEPL DENS:	0.493664	3	3	762	0.408025
DELTA DENSITY:	NA		•		
1ST POINT REF:	3.08232				,

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:25:25

SYSTEM NAME: 5600703

; ASSAY: ALTV FLUID: Serum

KIT LOT: 0320

CAL DATE/TIME: 30/3/2022 17:07:23 REAGENT GEN/LOT: 56064173

Status: Passed -

OP ID: SITE TEMP: 27.7C

SUPPLY HUMIDITY: 9

PARAME	TERS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE
INTERCEPT:	0.324064			U/L	
SLOPE:	99.9461	1	1	9	0.011655
CURVATURE/SLOPE2:	-0.0798065	2	2	216	0.139018
SUBS DEPL DENS:	0.508329	3	3	761	0.416151
DELTA DENSITY:	NA				
1ST POINT PEF.	ጎ 17 388				

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:24:37

SYSTEM NAME: 5600703

: ASSAY: AST FLUID: Serum

KIT LOT: 0357

CAL DATE/TIME: 3/7/2018 16:56:01 REAGENT GEN/LOT: 73234490

Status: Passed

OP ID:

SITE TEMP: 28.5C

SUPPLY HUMIDITY: 13

	6				
PARAME	TERS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE
INTERCEPT:	1.43616			U/L	
SLOPE:	102.976	1	1	10	0.004214
CURVATURE/SLOPE2:	-0.235159	2	2	. 237	0.083587
SUBS DEPL DENS:	0.555034	3	3	764	0.270352
DELTA DENSITY:	NA				•
1ST POINT REF:	7.82830				

End of Report

PAGE 1

PRINT DATE/TIME: 5/4/2022 11:12:46

SYSTEM NAME: 5600703

: ASSAY: AST FLUID: Serum

KIT LOT: 0320

CAL DATE/TIME: 9/3/2022 11:11:58 REAGENT GEN/LOT: 73285153

Status: Passed OP ID:

SITE TEMP: 28.7C

SUPPLY HUMIDITY: 13

PARAMETERS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE
INTERCEPT: 1.54187			υ/r	
SLOPE: 96.7002	1	1	15	0.005061
CURVATURE/SLOPE2: 2.09016	2	2	208	0.072773
SUBS DEPL DENS: 0.489897	3	3	690	0.217001
DELTA DENSITY: NA				
1ST POINT REF: 7.03519				

End of Report

PAGE 1

PRINT DATE/TIME: 5/4/2022 11:12:27

SYSTEM NAME: 5600703

ASSAY: TBIL FLUID: Serum

KIT LOT: 0497

CAL DATE/TIME: 4/7/2018 15:14:54 PREAGENT GEN/LOT: 14264583

Status: Passed OP ID:

SITE TEMP: 28.9C

SUPPLY HUMIDITY: 33

		•					
PARAME	TERS	LEVEL	BOTTLE	CALIB VALUE	RESPONSE 1	RESPONSE 2	
INTERCEPT:	-3.83972			mg/dL			
SLOPE:	39.3931	1	1	1.2	0.184129	0.201493	
CURVATURE/SLOPE2:	-2.04459	2	3	10.4	0.395317	0.317044	
		3	2	18.4	0.505297	0.397805	

End of Report

PAGE 1

PRINT DATE/TIME: 5/4/2022 11:03:27

SYSTEM NAME: 5600703

ASSAY: TBIL FLUID: Serum

Status: Passed

KIT LOT: 0460

CAL DATE/TIME 10/1/2022 12:34:57 REAGENT GEN/LOT: 14483001

OP ID: SITE TEMP: 29.9C

SUPPLY HUMIDITY: 35

PARAMETERS INTERCEPT: -3.43022	LEVEL	BOTTLE	CALIB VALUE	RESPONSE 1	RESPONSE 2
SLOPE: 30.3032	1	1	1.1	0.190473	0.199040
CURVATURE/SLOPE2: 6.71292	2	3	9.8	0.408122	0.328641
	3	2	17.6	0.516902	0.418307

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:23:36

SYSTEM NAME: 5600703

; ASSAY: Bu FLUID: Serum

KIT LOT: 0487

CAL DATE/TIME: 15/5/2018 14:45:10 REAGENT GEN/LOT: 02221932

Status: Passed

OP ID: SITE TEMP: 25.0C

SUPPLY HUMIDITY: 35

AMETERS LEVEL BOTTLE CALIB VALUE RESPONS T: 1.53569 mg/dL	E 1 RESPONSE 2
E: 289.314 1 1 0.5 0.123	278 0.152941
2: -217.394 2 2 6.6 0.643	949 0.571400
3 3 9.8 0.460	618 0.304305
4 4 21.1 0.766	061 0.522103

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:35:13

SYSTEM NAME: 5600703

, ASSAY: Bu

FLUID: Serum

KIT LOT: 0460

CAL DATE/TIME: 20/10/2021 11:47:15 \$\ REAGENT GEN/LOT: 02079935

Status: Passed OP ID:

SITE TEMP: 28.4C

SUPPLY HUMIDITY: 35

PARAMET INTERCEPT: 2		LEVEL	BOTTLE		RESPONSE 1	RESPONSE 2
				mg/dL	•	
	237.587	1	1	0.6	0.136440	0162043
CURVATURE/SLOPE2: -	-186.980	2	2	6.8	0.654255	0.581417
		3	3	9.7	0.482628	0.322557
		4	4	21.7	0.808774	0.545860

End of Report

PAGE 1

PRINT DATE/TIME: 4/4/2022 11:35:01

SYSTEM NAME: 5600703

ASSAY: Bc FLUID: Serum

Status: Passed

KIT LOT: 0487

CAL DATE/TIME: 15/5/2018 14:45:10 REAGENT GEN/LOT: 02221932

OP ID: SITE TEMP: 25.0C

SUPPLY HUMIDITY: 35

PARAMETERS INTERCEPT: -6.12241	FEAEP	BOTTLE	CALIB VALUE	RESPONSE 1	RESPONSE 2
SLOPE: -131.589	1	1	0.2	0.123278	0.152941
CURVATURE/SLOPE2: 372.428	2	3 .	0.8	0.460618	0.304305
	3	4	9.1	0.766061	0.522103
•	4	2 .	20.6	0.643949	0.571400

End of Report

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PRINT DATE/TIME: 4/4/2022 11:34:53