

Jagannath Choudhary Name Department Healthcare - Service Telephone +91-022 3370 0725 Fax +91-022 3370 0654 Mobile +91- 09769108282

E-mail Jagannath.chouchary@siemens-healthineers.com

CALIBRATION CERTIFICATE

This is to certify that Dimension EXL 200, Equipment ID: 1042762920 & serial number DE271193 installed at MAEER's Vishwaraj Hospital Laboratory has been successfully calibrated on January 6 ,2022. Please find below, results of calibration performed on the instrument.

Please find below, results of calibration performed on the instrument.

Photometric Calibration Data are as follows:

Parameter	Result	Acceptable Ranges
Photometer Dark Calibration		
Reference	9266.29 Hz	8500 – 11000 Hz
Sample Outer ON	9448.72 Hz	8500 – 11000 Hz
Sample Outer OFF	9444.90 Hz	8500 – 11000 Hz

	Lamp Calibration	
Low Calib Level	52.4%	NA
High Calib Level	58.2%	NA
Photometer Arm Alignment	-5%	-2 to -9

Filters	Offset (mAU)	System Check Results	Range
293 nm	292	0.44	+/- 2.5
340 nm	323	0.29	+/- 1.5
383 nm	336	0.24	+/- 1.5
405 nm	325	0.18	+/- 1.5
452 nm	322	0.24	+/- 1.5
510 nm	300	0.27	+/- 1.5
540 nm	309	0.37	+/- 1.5
577 nm	307	0.34	+/- 1.5
600 nm	302	0.23	+/- 1.5
700 nm	306	0.26	+/- 1.5

Siemens Healthcare Private Limited

Unit No.9A, 9th Floor, North Tower, Tel.: +91 022-3370 0600 Godrej One, Pirojsha**n**agar, Vikhroli (E), Mumbai - 400 079

Fax: +91 022-3370 0604
Email: hc_contact.india@siemens-ealthineers.com

www.siemens.co.in



System Check Results – CHK Lot No: BB2075

Parameters			Range	
	Mean	SD	Mean	SD
Reagent 1	398.00	1.65	392+/-15	< 3.8
Reagent 2	399.53	1.89	392 +/-15	< 3.8
Sampler	39.80	0.24	39.0 +/-2	< 0.8

Temperature		
Cuvette	37.0°c	37.0°c +/- 0.2
Regent Tray	4.2°c	2°c to 8°c
HM	43.0°c	43.0°c +/- 1.0

The instrument is working satisfactorily, subsequent to Calibration of the above parameters, and the next PM is due on July 2022

Next Calibration is due in the month of J uly 2022

<u>Note</u>: CHK kit is an USFDA approved kit used in performing the system check in all Dimension systems. The carton value is a predetermined value for which the limits are defined in system check screen and operator guide of Dimension.

Siemens Healthcare Private Limited

Jagannath Choudhary

Regional Customer Care Manager – West & West Central

Instrument Installation Acceptance Statement

City:	St ne-412201	ate:	Maharashtra
Instrument Installe		S/N:	DF271193
		S/N:	
		S/N:	
Install Completion	Date:		
	19 th July 2019		
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THIS PAGE FOR INTERNAL USE ONLY

Instrument Installation Procedure Dimension ® EXLTM clinical chemistry system

NOTE: It is recommended to install the RMS module hardware and electrical modules before continuing with the installation of the instrument.

1. PURPOSE AND SCOPE

This document describes how to install the Dimension* EXL™ Clinical Chemistry System

2. INVENTORY/UNPACKING

- ☐ 2.1 Visually inspect instrument for shipping damage.
- ☐ 2.2 Remove packaging material (foam, tape, tie wraps, etc.) from instrument. Discard packing material according to local area standards or procedures.
- ☐ 2.3 Inventory all items received and verify against the shipping list.
 - Instrument
 - Consumables
 - System Materials Manual (includes items such as the Accessory Kit, *Using and Maintaining Dimension** *EXL*TM *Manual*, *MSDS Manual*, and sample wheel segments)
 - Monitor box (including articulating arm, monitor tray, keyboard, and printer)
 - UPS
 - Bump stop kit
 - · QCC PowerPak barcode reader. USB Key

3. PARTS AND CONSUMABLES INSTALLATION

☐ 3.1 Install the monitor.

Install the monitor articulating arm on the Dimension's EXLTM instrument. Route the monitor video, power, and touch cable through the monitor arm. Connect the monitor power cable to extension cable inside the instrument. Route the monitor video cable and touch cable through the monitor arm with the cable clamps provided and through the instrument right side behind the cabinet side panel. Connect the monitor video cable to the computer video port and the touch cable to the rocket port serial card port one.

See Figures 1, 2 and 3 for proper routing of the cables.

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Figure 1:

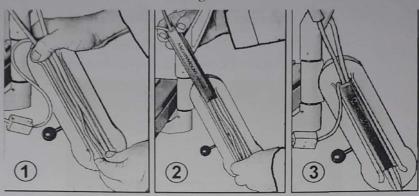


Figure 2.

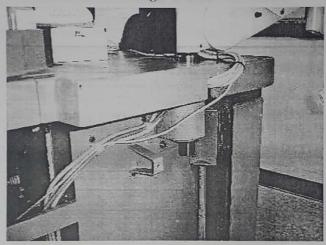
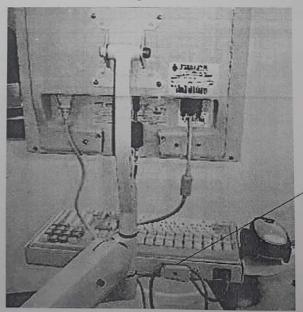


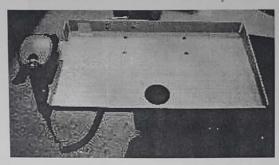
Figure 3



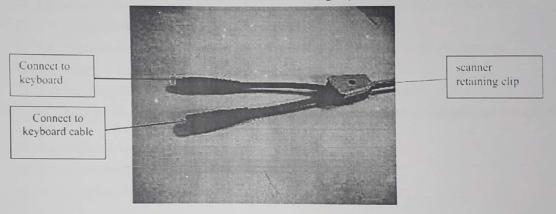
Keyboard Cable Clamp

- ☐ 3.2 Install UPS, refer to Installation procedure at back of this section.
- ☐ 3.3 Install QCC PowerPak barcode scanner

Place the barcode scanner into the holder at the left of the keyboard



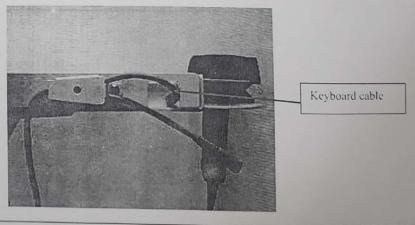
Place barcode scanner cable block inside of scanner retaining clip and attach clip to the keyboard tray.



Connect one connector from the barcode scanner to the existing keyboard cable.

☐ 3.4 Install the keyboard.

Feed other connection of the barcode scanner through the hole in the back of the keyboard tray and connect to the keyboard using the screws and cable retaining clip from step 1.



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Place keyboard back into keyboard tray.



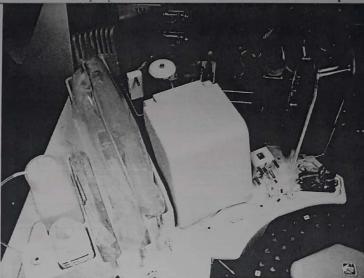
- 3.5 Give the USB drive to the customer, this drive will be used to store calibration, QC and patient data. Instruct the customer to install USB drive into a USB port on the front of the computer when needed.
- ☐ 3.6 Install the XLink warning label on the inside of the glove box cover (spare storage lid).
- ☐ 3.7 Configure the sample tube bar code readers for ASTM, if necessary.
- □ 3.8 Install the bar code labels on the sample wheel segments, and then install the segments.
- ☐ 3.9 Install the backup disk in the floppy drive.
- □ 3.10 Install the spent cuvette waste container and the chemistry waste bottle.

NOTE: Make sure the lid on the chemistry waste bottle is tight so a proper vacuum can be formed.

- ☐ 3.11 Install the cuvette film canister and new diaphragm.
- ☐ 3.12 Install the Dade Behring Inc. Water Diluent bottle.
- ☐ 3.13 Install the IMT Consumables.

Place the Standard A, Standard B, and Flush bags in their color-coded compartments in the IMT area. Position the QuikLYTE® Sample Diluent and Salt Bridge Solution bottles in their holders.

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IMT Tubing

The IMT Installation Tubing Kit (766286) contains:

- 766722.901 (3x)
- 766771.901
- 766777.901

It is inside the cuvette waste container in the System Material Kit box.

Install the tubing according to the diagram on the IMT lid. Be sure to remove the small plastic caps covering some of the connectors.

NOTE: The D1 and D2 tubing in the installation kit (766286) are not needed. They are left "in place" during the manufacturing pack-up process.

Put two extra "X" pump tubes in the accessory spare parts kit.

NOTE: X3 line comes with 1-in (2 mm) connection tubing on the end. There is also a connection tubing on the "T" it connects to, so discard one of these duplicate tubes.

The kit contains the following factory-installed extra parts:

- sample diluent bottle cap
- IIMT waste line
- D2 and D1 tubing

NOTE: Make sure the Diluent cap is installed on the Diluent bottle.

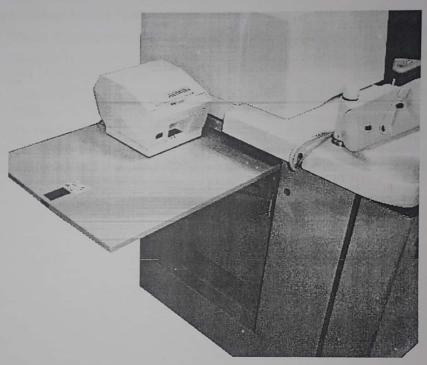
- Salt Bridge Solution
- QuikLYTE® Integrated Multisensor

NOTE: Installing the wall spacers are extremely important. DO NOT SKIP.

- □ 3.14 Install the two wall spacers.
- ☐ 3.15 Install HM consumables (vessels, chemistry wash, probe cleaner, vessel waste container, and sample probe cleaner).

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- ☐ 3.16 Install the system printer
 - 1. Unpack the printer, USB cable and power cables from the printer box
 - 2. Pull out the printer shelf on the left hand side of instrument
 - 3. Place printer on shelf and connect USB cable to printer and USB port on back of instrument
 - 4. Install power cable from back of printer to extra receptical (either on the UPS or Y-connector out of UPS)
 - 5. Install a roll of paper in the printer



- ☐ 3.17 Update the Spare Parts Kit:
- a. Remove the spare parts zip lock bag (PN 766704) from the instrument cabinet door. Place the parts in the drawers according to the "In the box" procedure No. 703705.604 packed with the instrument.
- b. Remove the Read/Right antistatic pads from the Static Stopper box and place them in drawer no. 12.
 - 3.18 Replace the current customer spare parts reorder list with the new one (PN 730705.604); the new list reflects the changes or additions that were made to the spare parts accessory kit.
- 4. MECHANICAL CHECKS (Power Off)
 - ☐ 4.1 Verify that all circuit boards are secure.
 - ☐ 4.2 Verify that all connections to backplane board are secure. To check connectors, remove the two fans on panel (four screws) from back of instrument.

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5. POWER LINE CHECKS

☐ 5.1 Check the wall outlet with DVM and record the voltages on the page titled "EM Specification & Verification" page.

6. VOLTAGE CONFIGURATION

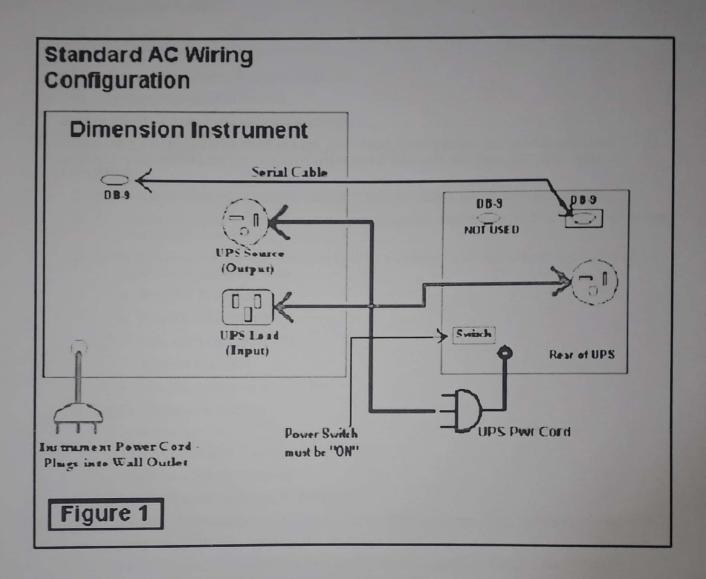
☐ 6.1 Install the UPS using the following steps:

NOTE: The Falcon model utilizes an added communication relay card with a DB-9 connector for correct serial communications. The standard DB-9 connector on the back of the UPS must not be used.

Standard AC Wiring Configuration

Very Important! You must perform the first four steps before installing the UPS.

- 1. Ensure the voltage dip switch settings on the rear of the UPS are set up for 120 volts.
- 2. Insert the large external fuse (tie-wrapped to the rear UPS fan) into the fuse holder located on the rear of the UPS on the right side above the receptacles.
- 3. If this is a UPS replacement, shut down the instrument, turn off the existing UPS, and unplug the cords.
- 4. To install the new UPS, make serial cable and power cord connections as shown in Figure 1— "Standard AC Wiring Configuration".
- 5. Turn on the UPS. For UPS functions and features, reference the respective UPS users manual that comes with the UPS.



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☐ 6.2 Turn ON the U	1100

☐ 6.3 Ensure power is supplied to the instrument and all cables are connected.

7. WATER/WASTE INSTALLATION

- □ 7.1 Connect the instrument to the water purifier.
- ☐ 7.2 Connect the plumbed waste line.

8. INSTRUMENT SETUP AND CONFIGURATION

NOTE: IF AN RMS IS TO BE INSTALLED, EXIT THIS PROCEDURE AT THIS POINT AND INSTALL THE RMS MODULE. WHEN COMPLETED RETURN TO THIS SECTION AND CONTINUE.

- □ 8.1 Turn on the main instrument power switch. If RMS is installed, turn on RMS power switch.
- ☐ 8.2 Turn on the monitor power and adjust the screen brightness and intensity. Refer to the monitor manual for adjustment instructions.
- □ 8.3 In the System Configuration Menu, configure the instrument for the following options by moving the cursor down and pressing Enter:
 - Water In PLUMBED
 - Waste Out PLUMBED
 - · Automatic Vessel Load ON
 - Automatic HM ON
 - Automatic Cartridge Removal ON
- ☐ 8.4 Decontamination Procedure:

Needed:

1 2L50A Selective Micro® Clean, PN 286072.001

Adapter coupling, PN 256761.001

Chlorine Dioxide Test Strips, PN 268080.001

Purpose: To decontaminate the instrument at installation and when doing preventative maintenance.

Reagents: 2L50A bag of SELECTIVE MICRO® CLEAN.

NOTE: The steps of this procedure are specific for the Dimension® RxL/RxL MaxTM/EXLTM, Dimension® XI. and Dimension® ARx Software.

- ☐ 8.4.1Disable the water system supply
 - From the Operating menu, press F6: System Config.
 - Use the arrow keys to move the cursor down to the "Water In"
 - · Change from "Plumbed" to "Manual"
- □ 8.4.2Prepare SELECTIVE MICRO®CLEAN following instructions on bag. NO NOT USE TAP WATER.
- 8.4.3Decontaminate the water and chem wash system.
- a. Pour off approximately 0.5 liters of the SELECTIVE MICRO®CLEAN solution into an empty chemistry wash bottle and install this chemistry wash bottle back onto the instrument.
- b. Pour off approximately 0.5 liters of the SELECTIVE MICRO®CLEAN solution into a small bottle or container to be used to decontaminate the supply line. (The white supply tubing will hold 8.1 ml/ft)

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Dimension® EXL^{1M} Clinical Chemistry System

Installation/Operation Qualification

- c. Remove and empty the water bottle. Pour the remainder of the SELECTIVE MICRO®CLEAN, approximately 1 liter, into the empty water bottle.
- d. Install the water bottle with the remaining SELECTIVE MICRO®CLEAN solution back on the instrument and secure the cap assy.
- e. Go to main menu and press F4: SYSTEM PREP, then F7: PUMP PRIME. Set CYCLES to 10.
- f. Press F1: PRIME WATER to pump SELECTIVE MICRO®CLEAN solution through the system.
- g. Press F5: IMT MONOPUMP
- h. Press F6: HM
- i. Press F1: HM WASH PUMP to pump SELECTIVE MICRO®CLEAN solution through the chem wash system. (Do the HM WASH PUMP an additional 5 cycles) Ensure some fluid remains in the bottle after the pump cycles.

Allow the solution to remain in the system for a MINIMUM of 15 minutes. If this is the first time, CL02 has been used in this instrument, allow the CL02 to remain in the instrument for 45 minutes. (Prime all pumps (f – i above) an additional 5 cycles at the 10 minute mark.)

NOTE: You can continue on with step 8.5.4 as soon as you complete above steps.

☐ 8.4.4Decontaminate the Water Supply Line

WARNING: If multiple instruments are connected to the feed line, ensure lines are disconnected from any instrument not being decontaminated to prevent SELECTIVE MICROSCIEAN contamination. These lines should be flushed well prior to reconnection to the instruments.

- a. From main menu press F7: DIAGNOSTICS, press F1: ELECTRO/MECH, then press F6: WATER WORKS.
- b. Press F4: VACUUM ON/OFF twice to turn the vacuum pump off. This will prevent fluid from being aspirated into the vacuum pump, when the waste pump line is removed from the waste bottle.
- c. Disconnect "Waste Out" quick-disconnect connector from the top of the waste bottle. Connect it to the mating connector of the adapter coupling (PN 256761.001).

NOTE: An adapter coupling is required for each instrument being decontaminated

- d. Disconnect the water inlet tubing from the water bottle cap. (Press and hold the ring down while pulling the tubing from the connector.)
- e. Connect the water inlet tubing to the remaining connector of the adapter coupling. Ensure tubing is securely pressed in.
- f. Put the millipore unit into STBY mode or turn off the water supply.
- g. Disconnect the supply tubing from the water system.
- h. Insert the end of this tubing into the bottle containing the SELECTIVE MICRORCLEAN solution.
- i. At the water works menu:
 - 1. Press F1: WATER ON/OFF to turn the water valve on.
 - 2. Then press F2: WASTE ON/OFF to turn the waste pump on. *SELECTIVE MICRO®CLEAN* solution will be drawn into the tubing.
 - 3. Repeat steps 1 and 2 until the tubing is filled up to the adapter **Do not allow the bottle to pump empty.**
 - 4. Press F2: WASTE ON/OFF again to turn off the waste pump.

Allow the solution to remain in the system for a MINIMUM of 15 minutes.

□ 8.5 Rinse SELECTIVE MICRO®CLEAN solution from the water supply line:

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- . Remove the supply tubing from the SELECTIVE MICRO®CLEAN solution.
- k. Press F1: WATER ON/OFF to turn the water valve on.
- 1. Then press F2: WASTE ON/OFF to turn the waste pump on to purge air through the tubing.
- m. Reconnect water supply tubing to the Millipore system
- n. Put Millipore back on line
- o. Disconnect the waste tubing from the adapter and reconnect it to the waste bottle.
- p. Disconnect the water bottle tubing from the adapter and reconnect it to the water bottle.
- q. Press F1: Water ON/OFF to turn the water valve on.
- r. Allow water bottle to fill (You may have to press F1 a few times for this to happen) DON'T ALLOW WATER BOTTLE TO OVER FILL
- s. Exit to the operating menu.
 - □ 8.6 Rinse the water and chem wash systems:
- a. Remove the water and chemistry wash bottle lids and float switch assemblies and set them into spare bottles (or on a clean paper towel if a bottle is not available).
- b. Discard the contents of each bottle and rinse each bottle with deionized water.
- c. Fill the bottles with deionized water and install the lid assembles.
- d. Agitate each bottle gently to rinse the bottom of the lids and the float switch assemblies.
- e. Cycle water through the system as described in step 8.4.3; c, f, g, h, & i.
- f. Repeat steps a-c.
- g. Check for SELECTIVE MICRORCLEAN, with test strips, at Wash Probe 1 and R2 by pulling tubing off probes and cycling associated pumps. Collect water in a test tube. Test strips only need 5 seconds of contact with water.
 - 8.7 Reassemble the water and Chemistry wash systems:
- a. Install the water bottle and lid assembly on the instrument.
- b. Change the "Water In" back to "plumbed", as described in step 8.3 and allow the system to fill the water bottle.
- c. Install a new Chemistry Wash bottle and update the count.
- d. Perform another system prime as described in Step 8.4.3, e, f, g, h, & i.

Set cycle count back to 3 when finished.

- □ 8.8 From the System Counters screen, select the clean probe routine. Condition the photometric sample probe by using a normal serum sample for the fluid.
- 8.9 Connect the phone cable from the modem (at the back of instrument) to the phone jack on the wall. Label this phone jack connection for proper identification. Verify proper operation of the modem by contacting the Technical Assistance Center for remote access of the instrument.
- □ 8.10 Record the modern phone number on the "Installation Rating" form.
- □ 8.11 Set the instrument identification, date/time, and report title.
- □ 8.12 Reset the cuvette, diaphragm, and aliquot wheel counts.
- 8.13 Update the HM consumable counts
 - · Wash Buffer
 - Vessels
 - Sample Probe Cleaner

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- · Reagent Probe Cleaner
- 8.14 Configure the system for the customer's bar code label format. Use "Autodiscriminate" only if multiple types of bar code labels are used.

9. SYSTEM AND ALIGNMENT CHECKS

- ☐ 9.1 Use the Electro/Mech diagnostics routine for the photometer. Press **F4: Initialize** and cycle the photometer to check for correct operation.
- 9.2 Load the film. Observe the cuvette formation. The pressure gauge should read 2-6 psi during the heating period and then jump up to at least 18 psi and not drop below 15 psi during cuvette formation. After the cuvette is formed, the pressure gauge should read close to 0 psi.

NOTE: During the heating period, the flowmeter should read 4.0 - 9.0 L/min.

- 9.3 Record Gaps listed on "EM Specification & Verification" page. Adjust if out of specification.
- ☐ 9.4 Perform the following alignments:
 - · Automatic FlexTM Loader
 - Sample Area including Barcode alignments, Sample Tube and SSC maximum depth alignments
 - Reagent Area
 - · HM Area
 - RMS (If equipped)
- ☐ 9.5 Perform the following photometer alignments/calibrations.
 - Dark Current calibration
 - Lamp calibration
 - · Photometer alignment
 - · mAU Offset calibration
- ☐ 9.6 Perform a mixer calibration:
- a. Go to the HM Module Alignments screen. From the Operating Menu, press:
 - F7: Diagnostics
 - F3: Alignments
 - F6: HM Module
- b. Press F5: Mixer Calib. The instrument will perform the mixer calibration and will prompt you when it is finished.
 - ☐ 9.7 Calibrate the cuvette and reagent temperatures.

NOTE: The Dimension EXLTM® should be turned on, flexes loaded, with all sides and shields in place, for at least two hours before measuring temperatures.

☐ 9.8 Calibrate the HM incubate wheel temperature

NOTE: The acceptable temperature range for the incubate wheel is 42.0° C – 44.0°C (default is set to 43.0°C).

10. SYSTEM PREPARATION

- ☐ 10.1 Enter ABS carton Value: on the Daily Maintenance Screen
- □ 10.2 Enter the reference and assay ranges, and coefficients for LYTES. To do this:
 - a. Go to the Main Operating Menu and press F6: System Configuration.

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- b. Enter the system password as prompted.
- c. Press the LYTES test key.
- d. Enter the ranges and coefficients for the Na (see ranges and coefficients below).
- e. Press F4: Store Param's.
- f. Press F1: Next Method to display parameters for K.
- g. Repeat the above steps for each electrolyte.

Reference Ranges & Coefficients	Na	K	CL	ECO2	Urine CL.
Reference Ranges for: Serum / Plasma Urine	136-145 40-220	3.5-5.1 25-125	98-107 110-250	21-32 NA	NA NA
Assay Ranges for: Serum / Plasma Urine	50-200	1-10	50-200	5-45	NA
	5-300	1-300	10-330	NA	NA
Coefficients: (C() C1	1.5	-0.2	-10.0	0.0	0.0
	1.01	1.05	1.09	1.0	1.06

- ☐ 10.3 Prime water from pump prime screen with 10 cycles. Reset to 3 after cycle prime.
- ☐ 10.4 Add an ABS flex reagent cartridge to the reagent tray and schedule a System Check.

Do three consecutive System Checks – all three must pass. Attach printouts to the System Check form.

Acceptable results are listed below:

Test	Performance Limits (mAu)
HM, mean	10% of the value on the ABS carton flap \pm 4 mAu
HM, SD	≤ 1.6 mAu
RMS, SD	≤ 3.8 mAu

- ☐ 10.5 Configure the indirect IMT system and update the IMT consumable screen. Process 2-3 conditioning samples.
- ☐ 10.6 Record the data and attach the Indirect IMT calibration printout to the IMT Data form.
- □ 10.7 Run a DILCHK until specifications are met (SD: NA ≤ 1.4, K ≤ 0.04, bias ± 1.0%). Record data and attach printout to the Dilution Check (DILCHK) form.
- □ 10.8 Cascade hydrated stability and TSH sensitivity Day 1. Prime all HM fluids from the pump prime screen. Perform the cascade hydrated stability and TSH sensitivity tests as follows. Record data and attach printouts to the TSH, MCAS, CRQC Results form.

NOTE: The FSE performs TSH Day 1 and Day 2 testing on consecutive days following the procedure below. Perform Day 2 within 20 to 28 hours after Day 1. The Day 2 procedure is located after the MCAS and the CRQC Data Sheets in this section. Attach printout sheets to installation manual pages for the CAS to review.

Materials and Reagents Needed:

TSH FlexTM

1 Indiscripted 1.001

- 1 Bottle of Level 1 THY Calibrator
- · 1 Bottle of Level 3 THY Calibrator

NOTE: Use Chem wash for L1 THY calibrator if necessary.

- a. Load 2 TSH Flex® reagent cartridges onto instrument.
- b. Hydrate the 2 TSH reagent cartridges.

From the main op menu

- 1. Press F4 System Prep
- 2. Press F2 Reagent Setup
- 3. Press F7 Request by Lot
- 4. Use the arrow key to cursor to the TSH No. of tests to hydrate field
- 5. Type 50 tests per flex and press enter
- 6. Press F4 Hydrate
- c. Change the TSH method configuration as follows:
 - 1. From the Operating Menu press F6: System Config, then F1: Method Parameters.
 - 2. Press Enter and then press Alt / TSH (TSH Method).
 - 3. Press Alt / P to get a screen print of the method parameters. Save this printout for the CAS who will need to reenter these parameters.
 - 4. Press F8: Next CALC'N to change the calculation to "Linear."
 - 5. Press F7: Set mAU and answer Y (yes) when you are asked, "Do you really want to set this method to mAU?"
 - 6. Press F3: Next Unit until "mAU" is displayed in the Result units field. (Selecting mAU units will allow the TSH method to process without first calibrating it.)
 - 7. Enter an assay range of 0 50 in the urine column. [NOTE: if this field is left blank (XXXX), incorrect fluid type errors will be generated]
 - 8. Press F4 to store the parameters and return to the Operating Menu.

d. Schedule TSH Assays using the Level 3 THY Calibrator:

- 1. From the Operating Menu press F1: Enter Data. Enter the position of sample cup. Enter the patient name as Level 3 THY Cal and sample number as UQC2.
- 2. Change the mode to Sample Cup, the priority to QC, and the fluid to Urine QC2.
- 3. Enter six TSH replicates (press Alt / TSH six times).
- 4. Put 1.0 mL of THY Level 3 Calibrator in a sample cup and place it in the designated sample cup position.

NOTE: Save this bottle of THY Level 3 calibrator (refrigerate) as it will be used during Day 2 testing.

5. Press F2: Process Single

NOTE: Perform step e. immediately after step d. (Level 3 <u>must</u> be run before Level 1)

e. Schedule TSH Assays using Level 1 THY Calibrator:

- 1. Enter the position of the sample cup. Enter the patient name as Level 1 THY Cal and sample number as UQC1.
- 2. Change the mode to Sample Cup, the priority to QC, and the fluid to urine QC1.
- 3. Enter ten TSH replicates (press Alt / TSH ten times)
- 4. Put 1.0 mL of Level 1 THY Calibrator in a sample cup and place it in the designated sample cup position.
- 5. Press F2: Process Single
- 6. Repeat steps 1 through 5 for 10 additional tests from a 2nd cup. (DO NOT attempt to run f. Analyze the data.

When the run is complete (about 35 minutes), review the mAU results from the printout for the two sets of Level 1 THY Calibrator results and the one set of Level 3 THY Calibrator results.

Scanned with CamScanner

Acceptable results using the THY Calibrator are listed below:

Test	Performance Limits (mAU)
Level 1 THY Calibrator; mean	-15 to +25
Level 1 THY Calibrator; SD	≤ 1.00
Level 3 THY Calibrator; mean	450 - 830
Level 3 THY Calibrator; SD	≤ 25

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g. Review the MCAS mAU data:

In the mAU data you will see the cascade "Blank" cuvette that contains the Cascade reagents without chrome. The value represents the mAU rate from 42 to 300 seconds at 510 nm minus 700 nm.

- From the Operating Menu, press F5: Process Control, then F7: Method Review.
- Select the MCAS "method" using the Alt / TIBC / TP keys. 2.
- 3. Press F1: Set Period. Enter 1 and press Return. This calls up the current day's results.
- 4. Press F6: Next Fluid until you get the Urine QC1.
- 5. Press F3 until "See Histogram" is displayed on the function key and the results are shown in a column.
- Use F2: Delete Results to delete values from 1 6 from the Level 3 THY Calibrator results. Note: Only values 1-6 may be deleted. Specif, are based on an n=20 for Level 1.
- Print the data (F8) and press N (you do not want a summary; you want all data).

Acceptable results for MCAS are listed below

Test	Performance Limits (mAU)
MCAS; mean	1 - 60

- 8. Record the MCAS mean on the data sheet.
- h. Review the CRQC mAU data. This function captures the chrome mAU data.
 - 1. From the Operating Menu, press F5: Process Control, then F7: Method Review.
 - 2. Select the CRQC "method" using the Alt / PTN / NAK keys.
 - 3. Press F1: Set Period. Enter 1 and press Enter. This calls up the current day's results.
 - 4. Press F6: Next Fluid until you get to Urine QC2.
 - 5. Press F3 until "See Histogram" is displayed on the function key and the results are shown in a column.
 - Use F2: Delete Results to delete values 1 6 from the Level 3 THY Calibrator results. NOTE: Only values 1-6 may be deleted. Specif. are based on an n=20 for Level 1.
 - Print the data (F8) and press N (you do not want a summary; you want all data).

Acceptable results for CRQC are listed below:

Test Performance	Limits (mAU)
CRQC; mean	65 – 110
CRQC; SD	≤ 5.0

8. Record the CRQC mean and SD on the data sheet.

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+ Entered; 13:19 + Status: PASS + CHK Flex Lot # GA + PHQTOMETER + Wavelength	
+ CHK Flex Lot # GA	2043
	Maximum +
293mm + 340mm	0.11
+ 383nm + 405nm + 452nm	0.09
+ 510nm + 540nm	0.14 0.14 0.14
+ 577nm + 600nm	0.15
* 700mm	Results Results
* Mean: 397.10	1st 398.94 +
+ \$D: 2.54 +	2nd 398,97 + 4 4th 395,80 +
* REAGENT #2	5th 393.22 +
* Mean: 399,96	
* SD: 0.48	1st 399.27 + 2nd 400.07 + 3nd 400.46 +
	5th 399.69
- SAMPLER	Results + 1st 38.19 + 2nd 39.04 +
* SD: 0.41	2nd 39 04 + 3nd 39.15 +
	4th 39.13 + 5th 39.13 +
+ HM WASH	Results
* Means	1st #1 +
4 301	1st 399.27 2nd 400.07 3nd 400.46 4th 400.30 5th 399.69 Results 1st 38.19 2nd 39.04 3nd 39.15 4th 39.13 5th 39.13 ** ** ** ** ** ** ** ** **
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*	SYSTEM CHECK		
	Entered: 13;	24 Jul 18 2019	
	Status: PAS	ş	# 1
+	CHK Flex Lot # PHOTOMETER	GA2043	<u> </u>
•	Wavelength	Maximum	
*	293nm	0, 24	
+	340nm	0.41	
	383nm	0.32	
+	405nm 452nm	0.31	
	510nm	0.29	
++++++	540nn	0.12	
+	600nm	0.11	
	700nm	0.14	
	REAGENT #1	Results	
4			
	Mean: 398.00 SD: 0.32	2nd 398.27	
		3rd 398.19	
*		4th 398.22 5th 397.60	
*			
	HREARENT #2	Results	
		1st 396.51	
+	SD: 1.10	2nd 399.35	
		4th 398.01	
		5th 397.00	
	SAMP ER	1st 398.51 2nd 399.35 3rd 397.38 4th 398.01 5th 397.00 Results 1st 39.04 2nd 39.18 3rd 39.06 4th 38.92 5th 38.83	
	Mean: 39.00	27d 39.04	
		3rd 39,06	
		4th 38.92	
	++++++++++++		
	++++++++++++++++	# + + # + + + + + + + + + + + + + + + +	**************************************
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	Fintered: 13:33 Jul 19 2019 + + Status: PASS - + CHK Flex Lot # GA2043 + + + + + + + + + + + + + + + + + + +
	+ PHOTOMETER + Wavelength Maximum *
	+ 293nm
-	+ 405nm 0.34 + 452nm 0.37
	+ 510nm 0.32 + 540nm 0.32 + 577nm 0.4) + 600nm 0.32
	+ 700nm 0.29 + + + + + + + + + + + + + + + + + + +
-	REASEN III RESULTS
	+ Mean: 398 12 1st 397 37 + SD: 1.06 2nd 397.89 + 3rd 396.97
	4kh 399.54 5kh 398.85
	+ REAGENT #2 Results + The Results +
	+ Mean: 400.61 1st 398.95 * + SD: 1 66 2nd 402.37 * + 3rd 402.10 + 4th 400.75 +
	5th 398.88 +
	Results + SAMP ER Results + + + + + + + + + + + + + + + + + + +
	# REAGENT #2 Results #
	5 th 38,90 + t
Ia	Results
Is	r Mean:
	200

	TM Clinical Chemistry	System	Serial Numb	Installation/Operation Qualification
EM Specification	& Verification		Seriai Numb	er:
Voltages:				
Wall Receptacle G-H	Power OFF V (0-1V)	Power ON	(90-110V)	Power ON (198-264V)
H-N	V (0-1V) V (0-1V)		(110-125V) (90-110V)	(198-264V)
G-N	V (0-1V) V (0-1V) V (0-1V)		(110-125V) (Max 0.5) (< 2 V)	(< 2V)
Gaps: Syringe				
(Glass to plunger)	Observed		Adjusted	Specification
Sample Metering	016		_ OK_	(.005''010'')
Sample Flush	DIL		01/	(.005" - 010")
Reagent 1 Metering		_	0((.005"010") (.005"010")
Reagent I Flush	014		816	(005''010'')
Reagent 2 Metering		_		(.005"010") (.005"010")
Reagent 2 Flush	0/4	_	_01_	(.005''010'')
Reagent 3 Flush		_		(.005``010``)
IF HM Instrument Chemistry Wash	0/	_	_01_	(.005"010")
Cuvette Manufactu	re Solenoids			Specification
Top Scal	0(610	(.010"*)
Cuvette Form		- 11	-	(0.020" 0.045"**)
U-Scal	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_		(0.020" = 0.010")
Capstan	Territory States			$(.005" \pm 0.010"*)$

Cuvette solenoid gaps are in the energized state with film installed.

NOTE: Any adjustments made must be recorded on the Installation Rating Form.

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^{**} Solenoid gap is determined with solenoid de-energized and by manually pushing the solenoid shaft/armature forward until able the solenoid shaft/armature forward until able the solenoid is energized is likely to be

		Installation Training/Op	perator Q	ualification
Oper	ators	Topic: Brief	Compone	nt Overview
Key	Other	Activity		Reference
	9	Review system components		Operator's Guide, System Overview
0/		Review keyboard, touchscreen and alert k	cys	Operator's Guide, System Overview
0		Review HM components		Operator's Guide, System Overview
Opera	ators	Topic	: Calibra	ition
Key	Other	Activity		Reference
		Calibrate linear methods	# methods:	Operator's Guide, Calibration and Quality Control
		Calibrate logit methods	# methods:	Operator's Guide, Calibration and Quality Control
		Verify enzyme methods	# methods:	Operator's Guide, Calibration and Quality Control
5		Calibrate Urine Drugs of Abuse methods	# methods:	Operator's Guide, Calibration and Quality Control
Opera	ators	Topic: Maintenance Do	these procedu	res using the Maintenance Log
Key	Other	Activity		Reference
0		Do daily maintenance procedures		rator's Guide, Setup and Supplies
		Do Weekly Maintenance procedures	Ope	rator's Guide, Maintenance
	0	Do monthly maintenance procedures	Оре	rator's Guide, Maintenance
	0	Review IMT tube routing	Ope	rator's Guide, Maintenance
		Do these periodic maintenance procedures	: Ope	rator's Guide, Maintenance
		Controlled power shutdown	Орс	rator's Guide, Maintenance
	, 0	Replace cuvette nozzle diaphragm	Ope	rator's Guide, Maintenance
		Replace printer paper	Ope	rator's Guide, Maintenance
		Replace cuvette film cartridge	Ope	rator's Guide, Maintenance
		Replace probe tip	Ope	rator's Guide, Maintenance
	0	Perform selected alignments	Oper	rator's Guide, Setup and Supplies
	0	Review IMT pathway and IMT flow		rator's Guide, Maintenance . Ableshooting
	П	Review replacing IMT consumables	Oper	rator's Guide, Setup and Supplies
5/	/	Review resolving a failed Dilcheck	Oper	rator's Guide, Setup and Supplies
		Review replacing HM consumables	Oper	ator's Guide, Setup and Supplies

Page 1 of 5

Operators

Key Other

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Topic: Sample Processing

Activity	Reference
Process patient sample using sample cup, primary tube (include barcoded tube if used)	Operator's Guide, Sample Processing and Test Reports
Process multiple fluid types, including urine assays	Operator's Guide, Sample Processing and Test Reports
Enter manual dilution factor	Operator's Guide, Sample Processing and Test Reports
Respond to system need; use ALT N to review needs screen	Operator's Guide, Sample Processing and Test Reports
Add and remove reagent cartridges	Operator's Guide, Sample Processing and Test Reports
Use ALT S to determine segment status and to delete	Operator's Guide, Sample Processing and Test Reports
Process short sample: • use ALT I, to respond to Insufficient Sample message • use SSC • use sample cup • use tube fill guide before processing	Operator's Guide, Sample Processing and Test Reports
Review use of sample status key, F2	Operator's Guide, Sample Processing and Test Reports
Edit samples, including adding and deleting tests, rerunning tests and deleting samples	Operator's Guide, Sample Processing and Test Reports
Use CTL Help and ALT R in response to reagent	Operator's Guide, Sample Processing and Test Reports
Perform manual query, if used	Operator's Guide, Sample Processing and Test Reports
Review use of these keys: Pause Exit/Shift Exit Reset Backspace/Backslash Run Up Arrow/Down Arrow Alarm Pg Up/Pg Down	Operator's Guide. Syxtem Overview
CTL Stop Review Help functions/keys: Help, ALT Help, CTL Help,	Operator's Guide, Appendix
Shift Help Review these key combinations: ALT I, ALT P, ALT O	Operator's Guide, Appendix
Review interpreting test report messages	Operator's Guide, Appendix

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Operators

Topic: Customization (continued)

her	Activity	Reference
Configuring	QC Alerts	Operator's Guide,
Defining Q0	Ranges	Operator's Guide
Defining QO	Products	Operator's Guide,
Editing QC	Products	Operator's Guide,
Defining QC	Panels	Operator's Guide,
Defining Ca	libration Products	Operator's Guide,
Configuring	Calibration Alert	Operator's Guide
Setting up C	alibration Auto Acceptance	Operator's Guide,
Grouping Ca	alibration Alerts	Operator's Guide,
Setting Up (alibrations Manually	Operator's Guide
Grouping Q0	Alerts	Operator's Guide,
Retrieving C	alibration History	Operator's Guide,
Storing Labo	ratory Data	Operator's Guide,

Operators

Key

Other

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Topic: Problem Resolution

Activity	Reference
Review response to alarm ON/OFF	Operator's Guide, Introducing,
Review response to error messages using ALT M	Operator's Guide, Introducing
Review using Reset key to clear error messages	Operator's Guide, Introducing
Review active and resident error logs; including More Info and See Minor functions	Operator's Guide, Troubleshooting
Review troubleshooting, emphasizing system check troubleshooting guidelines	Operator's Guide, Troubleshooting
Review icons and using CTL Help to respond to	Operator's Guide, Appendix

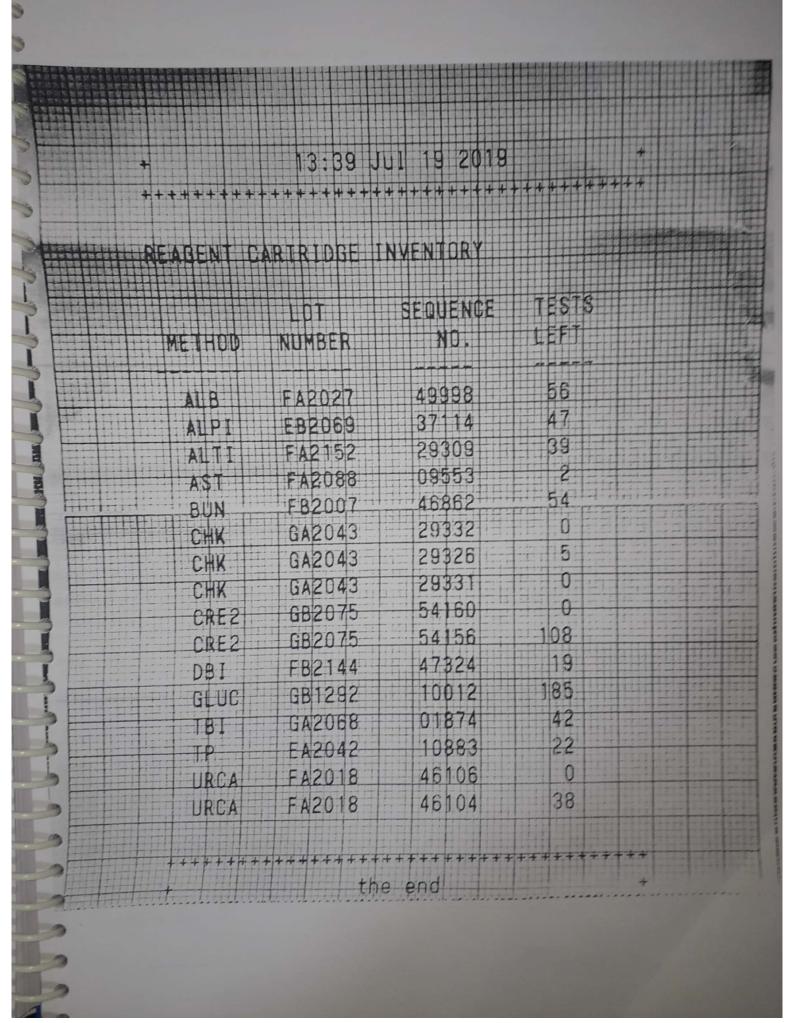
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Operators		Topic: Resources
Key	Other	Activity
		Review TAC contact process
	0	Review XLINK capability
	0	Review Method Inserts
	0	Review Fast Facts
Ope	erators	Other Training Items
Key	Other	Activity
0	0	
0	0	
0	0	
0	0	
□- R ○- O	equired	

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REAGENT	CARTRIDGE	INVENTORY	
METHOD	LOT	SEQUENCE NO.	TESTS
ALB	FA2027	49998	56
ALPI	EB2069	37114	47
ALTI	FA2152		39
AST	FA2088	09553	2
BUN	FB2007	46862	54
СНК	GA2043	29332	0
СНК	GA2043	29331	0
CRE2	GB2075	54160	0
CRE2	GB2075	54156	108
DBI	FB2144	47324	19
GLUC	GB1292	10012	185
TBI	GA2068	01874	42
TP	EA2042	10883	22
URCA	FA2018	46106	0
URCA	FA2018	46104	38



INVENTORY SUMMARY

ATTACH INVENTORY PRINTOUT

THIS INVENTORY SUMMARY CONSISTS OF ALL METHODS CALIBRATED AND INTENDED FOR USE AT TIME OF INSTALL.

CAS

CUSTOMER

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CHEMISTRY INSTALLATION

1. CUSTOMIZING Dimension®EXLIM

- ☐ 1.1 Review auto-dilution and automatic urine dilution feature with operator.
- ☐ 1.2 Add all auto-dilution parameters under each method.
- ☐ 1.3 Review auto repeat of panic values feature.
- ☐ 1.4 Review automatic reflex testing feature.
- ☐ 1.5 Insert panic values on the method parameters display.
- ☐ 1.6 Select operating mode for customer. Configure HIL Alert Index Values (auto-on ONLY).
- ☐ 1.7 Configure Alert key options.
 - a. STAT
 - b. Supplies Reagent Alert Set-up ie. Gluc 50 workload dependent
 - e. Calibration threshold max 2140 hrs., recommend 10-12 hrs.
- ☐ 1.8 Under System Configuration
 - · Automatic dilution YES
 - Auto repeat of Panics Customer decision ON/OFF
 - Automatic Reflex Testing Customer decision ON/OFF
 - Auto-Rerun YES
 - · Automatic Cartridge Removal: ON
- ☐ 1.9 ECO2 Configuration
 - TCO2 to ECO2 LIS info in computer ID
 - IMT Lytes key to include ECO2, set soak interval, more than 100 lytes a day, 15 day interval
 - Test Report Order: to move ECO2 with LYTES

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QCC PowerPak CAS Installation

1. Instrument Setup

1.1. Configure QC Alerts

Provides a means to setup new QC Alerts.

• Enter into the Screen by pressing the following:

Select QC Alert

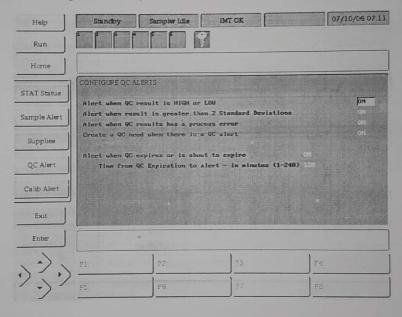
F4: Configure Alert

Turn on requested alerts for the following:

Alert when QC result is High or Low Alert when result is greater than 2 SD Alert when QC results has a process error Create a QC need when there is a QC Alert

Set time for QC Expiration to alert as preferred

Note: If the "Create a QC need when there is a QC Alert" is enabled the user will not get the timed QC Alert.



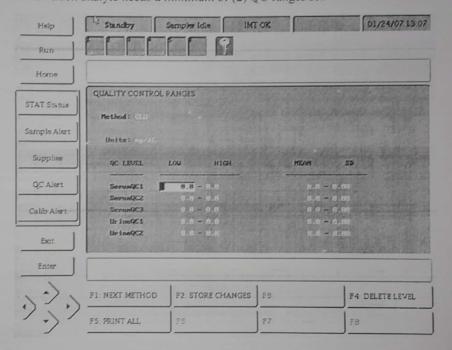
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1.2. Define QC Ranges

Uses current functionality to Define QC Ranges which will be used by the QC Program as well as the Calibration program.

- · Enter into the Screen from the Main Menu
 - F5: Process Control
 - F4: QC Ranges
 - Select Method
 - Enter QC Ranges for method
 - F2: Store Changes
- · Repeat procedure for all methods

Note: Each analyte needs a minimum of (2) QC ranges set.

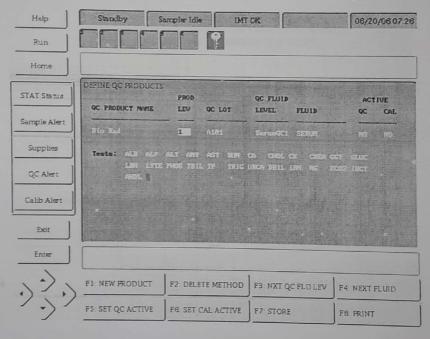


1.3. Defining QC Products

Entering QC Products allows specific QC products to be associated with product levels. methods, QC fluid levels (SerumQC1, UrincQC1...) and fluids (SERUM, URINE, CSF/WHOLE BLOOD...). These definitions are used to define what QC products are to be run with a calibration (provides a picks list when the calibration is setup), what fluid is sent to the LIS, and where the QC should be sent to in the Dimension* QC database.

- Enter into the Screen by pressing the alert button
 - Select QC Alert
 - F5: Define QC Product
- Input QC Product information including QC Product Name, Product Level, QC Lot number, QC Fluid Level, Fluid Type, Select Tests and set the QC and Calibration Active
 - F7: Store
- Change Product Level and QC Fluid Level (if additional levels and fluids are needed for this product)
 - F7: Store
- Repeat for each QC Product

Note: The user should define all levels for a product before setting up additional products.



Edit QC Products

- Enter into the Screen from the main menu by selecting;
 - F5: Process Ctrl
 - F3: QC Status
 - F2: Edt QC Product
 - Select the QC Product to be edited
 - F1: Edit Product

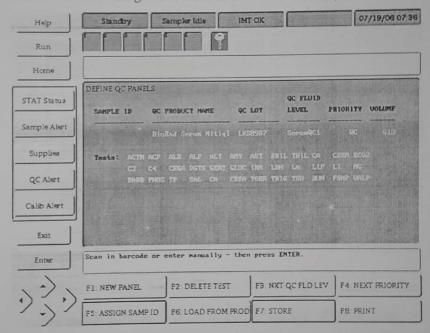
Make changes to the product using function keys

1.4. Defining QC Panels

This feature is intended to provide the means to match a Barcode ID to a panel of methods on which QC is required on a periodic basis.

- Enter into the Screen from the Main Menu
 - F5: Process Control
 - F3: QC Status
 - F6: Define QC Panels
 - F6: Load from Prod
- · Cursor down to the product to set up a QC Panel
 - F1: Select Product
 - F5: Assign Sample ID (scan in or manually enter the sample ID for the QC)
 - F7: Store
- Repeat process to set up all QC Panels

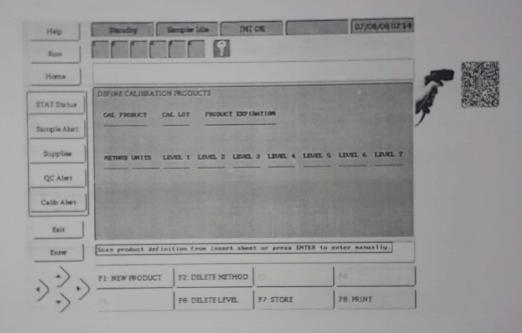
Note: When scanning in barcodes make sure that the caps lock function is turned off.



1.5. Define Calibration Products

Provides a means to scan or manually enter calibration product definitions that include the product name, lot number, expiration date and bottle values for each method in the product. Bottle values for the product are in U.S. and S.I. units.

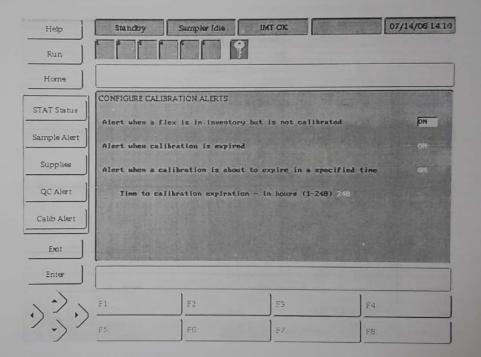
- · Enter into the Screen by:
 - Select Calibration Alert
 - F5: Define Cal Product
- Scan in Product with barcode reader
 - F7: Store
- Kepeat



1.6. Set Calibration Alerts

Provides a means to alert customer when a calibration is needed, or about to be needed on the system.

- Enter into the Screen by:
 Select Calib Alert
 F4: Config Alert
- Turn on requested alerts for: Flex in inventory but not calibrated Alert when expired Alert when about to expires Program time to calibration expiration
- Exit out of the screen (values will store upon exit)



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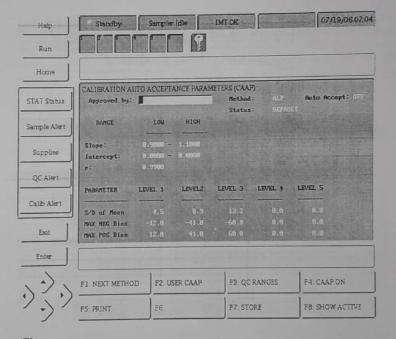
1.7. Setup Calibration Auto-Acceptance

The auto-accept screen requires that each method be individually selected, the parameters reviewed, the approvers name entered, then enabling auto-accept.

- Enter into the Screen from the main operating menu select:
 - F5: Process Control
 - F1: Calibration
- Enter Password
 - F4: Auto-Accept
- · Select Method
- Review the information on the screen, modify any information necessary
- Enter name in the Approved by: space

F4: CAAP On (for methods that customer wants Auto Accepted)
F7: Store

Note: CAAP stands for Calibration Auto Acceptance Parameters



1.8. Load Reagent Flexes

Add any reagent flexes to the instrument needed. If possible add new lots of reagents or reagents that need calibrated so that the customer can get familiar with the Calibration Auto Acceptance.

Scanned with CamScanner

2. Calibration

2.1. Calibration Setup (Automatic Acceptance)

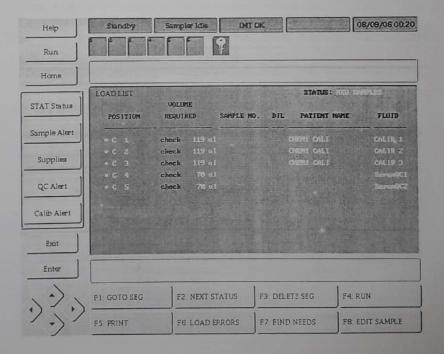
- Select Calib Alert
 - F3: Group Cals
- Select product/methods to be calibrated
 - F2: Setup Group

Note: if more then one calibrator product is defined for that group, the product that matches the calibrator lot number must be selected.

- Enter users initials
- Enter starting cup position
 - F4: Assign cups
 - F7: Load/Run
 - F4: Run

When the calibration is complete a report slip will print indicating the acceptance status from the auto-accept routine. If the calibration was auto-accepted, the report slip would indicate so and no further action would be required from the operator. If calibration was not auto-accepted, the customer will go to the review calibration screen and manually review the calibration.

Note: Information displayed will be the calculated information.



2.2 Calibration Setup (Manual)

Enter a calibration the normal way.

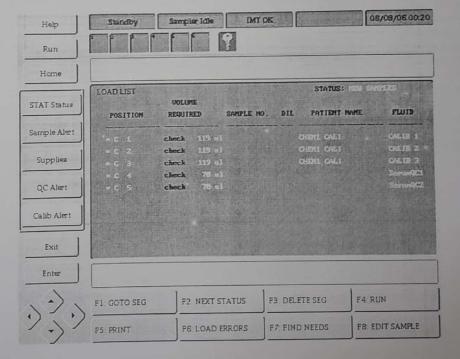
- From the Main Menu select:
 - F5: Process Ctrl
 - F1: Calibration
- Enter password
 - F2: Set-Up Run
- Select method to be calibrated

Note: if more then one calibrator product is defined for the method then the product that matches the calibrator lot number must be selected.

- Enter Operators Name
- Select Start Position
 - F8: QC Yes/No
 - F4: Assign Cups
 - F7: Load/Run
 - F4: Run

Allow the calibration to run, when the calibration is complete a report slip will print indicating the acceptance status from the auto-accept routine. If the calibration was auto-accepted, the report slip would indicate so and no further action would be required from the operator. If calibration was not auto-accepted, the customer will go to the review calibration screen and manually review the calibration.

Note: Information displayed will be the calculated information.

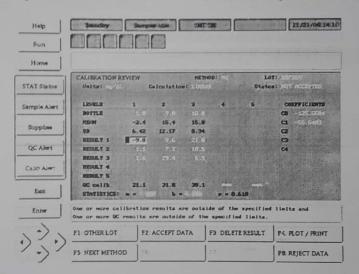


2.3 Calibration Review

Calibration Review has been modified for auto-acceptance methods to display errant values that are outside of the expected slope, intercept, mean s.d. and QC in RED and values in range in GREEN.

- From the Main Menu select:
 - F5: Process Ctrl
 - F1: Calibration
- Enter Password
 - F3: Review Data
- Select Method to be reviewed:

Note: Only look at methods that have been calibrated since QCC PowerPak has been turned on.



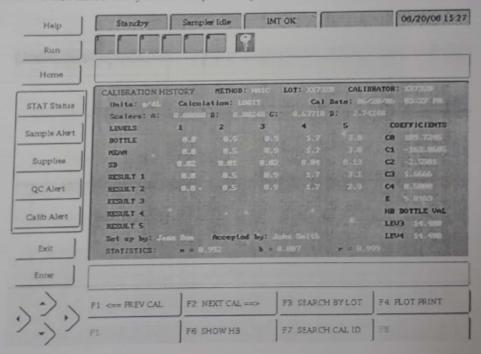
- Items that passed are in green and those that failed are in red
- Displayed shows that the mean, SD, QC and correlation coefficient is outside of acceptable range.
- After review, information can be manually accepted, if desired, using the F2: ACCEPT DATA function

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2.4 Calibration History

Calibration History provides the user with the ability to review and print calibrations that have previously been completed, system starts archiving calibration history for any method that has been calibrated once QCC PowerPak is enabled.

- · From the main menu
 - F5: Process Ctrl
 - F1: Calibration
- Enter Password
 - F7: Calib History
- · Select Method to review
- · Select the desired calibration by selecting:
 - F1: Prev Cal
 - F2: Next Cal
 - F3: Search by Lot
 - F4: Search by Cal ID
- · Select Plot / Print
 - F4: Plot Print (if desired)
- · When asked "Do you want to print a report?" answer Y



Store Laboratory Data 2.5

Improvements to the STORE LABORATORY DATA feature include adding calibrations records and enabling writing the data to a memory stick though the USB

From the Main Menu select:

F5: Process Ctrl

F8: More Options

F7: Store Lab Data

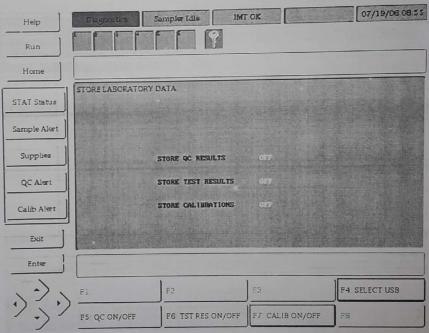
Use the F4: function key to toggle the storage device (either Floppy or USB)

Select the date range to store data

F1: Store Data

Follow prompts on screen to store data

Note: Instrument should be in standby when storing laboratory data.



3. QC

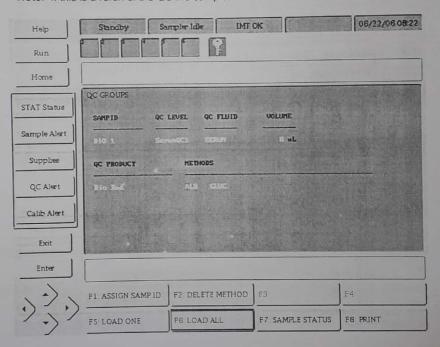
3.1. Group QC Alerts

The Group QC Alert function allows grouping of QC alerts to common QC Products. This allows errant QC mitigation by assigning a sample ID to a dynamic QC panel based on QC needs.

- Select QC Alert
 - F6: Group Alerts
- Select the QC product that you wish to run from the list
 - F1: Assign Samp ID
- Enter the sample ID

F5: Load One (if multiple alerts are available, assign the first sample ID then cursor down and assign the next ID until all samples have ID's, the user then can select F5: Load All.

Note: If this is a rerun of the QC the sample will need to be moved to a new location.



QCC PowerPak[™] Installation Checklist

Configure QC Alerts	
Define QC Ranges	
Define QC Products	
Define QC Panels	
Define Calibration Products	
Set Calibration Alerts	
Setup Calibration AUTO-ACCEPTANCE	
Load Reagent Flexes	
Calibration Setup (AUTOMATIC ACCEPTANCE)	
Calibration Sctup (MANUAL)	
Calibration Review	
Calibration History	
Store Laboratory Data	
Group QC Alerts	

Clinical Applications Specialist: ______

Install date: _____

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CALIBRATION/VERIFICATION PRODUCT LOT NUMBERS

Serial Number:

IMT REAGENTS/SUPPLIES

QuikLYTE Cartridge
Salt Bridge Solution
QuikLYTE [®] Standard A
QuikLYTE Standard B
Dilution Check
QuikLYTE Sample Diluent

HM REAGENTS/SUPPLIES

Reaction Vessels
Chemistry Wash
Reagent Probe Cleaner
HM IMT Probe Cleaner
Sample Probe Cleaner
HM Sample Diluent

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CALIBRATION DATA

METHOD _____ FLEX LOT #____ CALIB LOT #____ SD = ____ at ____ SD = ___ at ___ SERIAL #___ SLOPE GUIDELINE_____ SUGGESTED INTERCEPT____ C0 = $C1 = \overline{}$

ATTACH REPORT SLIP(S) IN THIS AREA

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	CALIBRATION REVIEW INSTRUMENT SERIED NUMBER: 271193 D: BB2075 - METHOD: CRE2 LOT: UB2075 CALIB. PRODUCT/LOT: CHEM 1 CAL - OLDO77	9 2019 + Status: CALIBRATED 1 CAL + Set up by: KIRAN 77 + Set up date: 07/19/19 02:21 PM CCHPTED + Accepted by: KIRAN Accepted by: KIRAN Acceptance date 07/19/19 02:36 PM Acceptance mode MANUAL	t Units: mg/bL + Calculation; Linear	:-0.050000 + Calibration Coefficients CD: -0.3650 CI: 0.0779 C2:	ay range + # CA:	say range + LEVEL 1 2 3 4 5	#1 2: 180-3 0:30 *** #2 5: 250-6 740 *** #3 *** *** #4 0:000-0:000 *** #5 0:000-0:000 ***
VISHWARAJ HOSPITAL 14:B3 Jul 19 2019	+ CALIBRATION • METHOD: CRE2 LQT TD: BB2075	Calibrator Lot: OLDO77 + Calibration status: NOT ACCEPTED + Calibration Curvs: LINEAR +	CO: -0.423 C1: 0.077	# BOTTLE RESULT ERROR	0.00 -0.05 assay rangs 0.00 -0.06 assay rangs + 10.97 10.48 + 10.97 10.54	21.61 2 48 assay range + 21.61 2 39 assay range + 21.61 2 14 assay range	

VISHWARAU RUS 14138 ROLL WILL	14:35 Jul 18 2019 -
CALIBRATION	CALIBRATION REVIEW
METHOD: AST COT 101 GAZO98	Instrument Serial Number: 271193
Entered: 14:19 % 10:20 P	METHOD: AST LOT: GAZO96 CALIB: PRODUCT/LOT: ENZ VERIFT - 00J061
Calibrator Name: ENZ VERIFI + Calibrator Lot: 08J061 Calibration Status: NDI ACCEPTED + Calibration Curve: VERIFY	Status: CALIHRATED Set up by: KIRAN Set up date: 07/19/19 02:19 PM Accepted by: KIRAN Accepted by: KIRAN Acceptence date: 07/19/19 02:35 PM Acceptence mode: MANUAL CAAP status:
	Gal ID (807181435, AST. GA2098
CU: 2.000 C1: -3,537 ·	Units: U/L Calculation: VERIFY
BOTTLE RESULT ERROR +	Calibration Coefficients CD: 2.0000 C1: -3.5370
36 38 35 4 36 36 36 4 411 431 411 432 4 411 432 4 785 816 8	CA:
785 823	LEVEL 1 2 3 4 5
	M = 1.048 b = 0.188 r = 1.000
	QC LEVEL REF INTERVAL RESULT
35-51 187-238 199 0-0	#1 34 80-51,10 *** #2 187.0-238.0 *** #3 *** *** #4 0.000-0.000 *** #5 0.000-0.000 ***
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

VISHNARAJ HOSPITAL	VISHWARAJ HUSPITAL
14:36 Jul ha 2019	4., ., ., ., ., ., ., ., ., ., ., ., ., .
TALIBRATION	CALIBRATION REVIEW Instrument Serial Number: 271193
METHOD: ALB LOT ID: FA2027	METHOD: ALB LOT: FA2027 GALTB: PRODUCT/LOT: TP/ALB CAL - 000036
+ Entered: 14:29 Jul 18 2019 + Dperator: KIRAN + Calibrator Name: TP/ALB DAL + Calibrator Lot: ODD036 + Calibration status: NOT ACCEPTED + Calibration Lurve: LINEAR + Units: O/dl	Status: CALIBRATED Sat up by: KIRAN Set up date: 07/19/18 D2:29 PM Ascepted by: KIRAN Acceptance date: 07/19/18 D2:43 PM Acceptance mode: MANUAL CAAP status:
*	Cal ID: 1907191443.ALB FA2027
00: -1.060 01: 0.023	Units: g/dL
BOTTLE RESULT ERROR	
+ 0,40 1,33 + 0,40 1,34 + 0,40 1,35 + 4,10 5,49	
+ 4.10 5.52 +	UEVEL 1 2 3 4 5 BTTU 0 40 4.10 8 10 *** ***
	MEAN 0 877 4 144 8.078 *** *** SD 0.008 0.020 0.016 *** *** #1 0 37 4.12 8.09 *** *** #2 0 37 4.15 8.06 *** *** #3 0 39 4.16 8.09 ***
	Statistics
	OC LEVEL REF INTERVAL RESULT
+ 3.69-4.37 + 2.28-2.74 + + + + + + + + + + + + + + + + +	#1 3.690-4.370 *** #2 2.280-2.740 *** #3 *** ***
+ 2/28-2-74 + +44 = 344 + 0.00-0.00	#4 0.000=0.000 xxx 15 0.000=0.000 1.84x
+ 0.00-0.00 + 0.00-0.00 + 0.00-0.00 + 0.00-0.00	
0,00-0,00	
0,00-0,00	
[] [] [] [] [] [] [] [] [] []	

	CALIBRATIO	N			METHOD: TP LOT: EA2042 CALIB, PRODUCT/LOT: TP/ALB CAL - ODDO36
	METHOD: TP		LOT TOT ENERA		Status: CALIBRATED
	Entered: Operator: Calibrator	DESCRIPTION DESCRIPTION DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TRAN	NIRAN THYALB CAL	+	Set up by KIRAN 07/19/19 02:45 PM
	Calibrator	Lotalia	ODDO38		ACCHOTED BY: KIRAN 02:58 PM ACCHOTENCE HATE: 07/19/19 02:58 PM ACCHOTENCE HADDAL
	Calibration				CAAP status:
	Units:		/dL	1	Cal ID: 190/191458, 1P.EA2042
	CO	3.700	01: 0,		Calculation: -INEAR
					Calibration Confficients CO: 3.7566 C1: 0.0245
	BOTTLE	RESULT	ERROR		
	0.9	1.0	assay ranga		C3 - C4 :
	7.5 7.5	1.0 7.3 7.2	assay hange		
	7.5	7.2	assay range		LEVEL 1 2 3 4 5
	14.8	13.5	assay range		BITTL 0.9 7.5 14.8 *** *** MEAN 0.81 7.57 14.72 *** ***
•					SD 0.01 0.04 0.01 *** *** *** *** *** ***
					#3 0-8 7 14 7 *** *** #3 0-8 7 9 14 7 ***
					Shatistics
					m = 1.000 b = 0.000
					b = 0.000
	QC RANGE	RESULT	ERROR		#1
	6,6-7,7 4,1-4,9 *** = ***				#1 8.570-7.700 *** #2 4.100-4.910 *** #3 *** *** *** #4 0.000-0.000 ***
	0.0-0.0 0.0-0.0 0.0-0.0				#5 0.000-0.000 ***
	0.0-0.0 0.0-0.0 0.0-0.0				
	0.0-0.0				
				+ + +	
				+++++	
					the end +

	VISHWARAJ HOSPITAL 14 29 Jul 18 2019	VISHWARA I HOSPITAL 14:23 Jul 19 2019
		CALLORATION OF MEN
	CALIBRATION	Instrument Serial Number: 271133
	METHOD: 181 LDT ID: GA2068 .	METHOD: 181 LOT: BAZO68
• 11	Entared: 14:12 Jul 19 2019 +	CALIB. PRODUCT/LOT: 181/081 CA - 000046
	Operator: KIRAN + Calibrator Name: TBI/DBI CA	Set up by: KIRAN
	Calibrator Namet TBT/DBT CA Calibrator Lot: OGDO48 TBT/DBT CA	Set up date: 07/19/19 02:12 PM
1	Calibration status: NOT ACCEPTED	Accepted by: KIRAN
		Acceptance date: 07/19/19 02:23 PM
1	· Calibration Curve: LINEAR	CAAP status:
9	· Units: mg/dL +	
4-1-1	+ CO: 0.000 C1: 0.078 +	Cal 10: 1907181423. TBI. GA2068
3		Units: mg/dL ¢alculation: LINEAR
		Calibration Coefficients
1	BOTTLE RESULT ERROR	\$\\ \co: \ -0.0763 \\ \chi1: \ 0.0777 \\ align*
3		¢2:
	+ 0.0 0.1 assay range + 0.0 0.1 assay range	(4) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
	+ 0.0 0.1 assay range +	4: 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.
3	9.8 9.9	
	+ 9.8 9.9	
	+ 27.3 27.4 assay range	FVFI 1 2 3 4 5
3 -	+ 27.3 27.4 assay range + 27.3 27.6 аврау гапде	LEVEL 1 2 3 4 5
		BTT(0.0 9.8 27.3 *** ***
		MEAN 0.00 9.77 27.31 ***
3		\$D 0.01 0.02 0.08 *** *** *** *** ***
		1 2 0.0 9.8 27.3
		#4 ### *** *** *** ***
9		
		Statistics
2		
		11,000
9		
	+ CC RANGE RESULT ERROR +	OC EVEL REF. INTERVAL RESULT
7	+	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2	3.5-4.4	#3
	+ 1 0 0 0 0 0	0.000-0.000
		0.000-0.000
夕韓龍	0.0+0.0	
1 開開	+ 0.0+0.0	
7世	+ 0.0+0.0 + 0.0+0.0	

QUALITY CONTROL SUMMARY

ATTACH QC PRINTOUT

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PRINT RESULTS
Patient: BIORAD LI Sample No.: Lodation Sample: SerumQC! Priority: QC Entered: 15:02 Jul 19 2019 Position: 1 Segment: 8
TEST RESULT REF. INTERVAL UNITS TBI 0.9 0.8-T. 89/8L TP 8.0 77.7-8.8 9/8L ALB 4 18 3.69-4.37 9/8L GLUC 80 19-27 89/9L OBI 0.2 0.1-0.3 89/8L CREZ 2.70 2.18-3.03 89/8L * VISHMARAJ 80SPITAL * IS:18 JUT 19 2019 PRINT RESULTS PATIENT NO. 2 8-U-9.2 Sample: SerurgCZ Priprity: 00 Entered: 15:03:JUL 18 2019 TEST RESULT REF. INTERVAL UNITS TEST RESULT REF. INTERVAL UNITS
* VISHMARAJ HOSPITAL
PRINT RESULTS
Patient: 810RAD L2 Sample No.: Location: Sample: SerumQC2 Priprity: QC Entered: 15:03 Jul 19 2019
Position: 2 Segment: 8
TEST RESULT REF. INTERNAL UNITS
7名 5,5 5 1-8 9 g/d
ALB

COMPARATIVE STUDY

SPLIT SAMPLE COMPARISON'	SPI	IT	SI	M	PI	F	CO	MF	A	RI	S	NC	1%
--------------------------	-----	----	----	---	----	---	----	----	---	----	---	----	----

	DATE
X (CONFIRMED INSTRUMENT):	Y (NEW INSTRUMENT):
SERIAL#:	SERIAL#:

	Method		Method		Method		Method		Method		
	Lot #		Lot #		Lot #		Lot#	Lot #		Lot #	
Sample	X	y	X	y	X	y	X	y	X	y	
1											
2											
3											
4											
5				-							
6											
7											
8											
9											
10			_								
11											
12											
14											
15	-										
16	-										
17											
18											
19											
20											
									1000		
	m =		m =		m =		m =		m =		
	b =		b =		b =		b =		b =		
	r=		r =		r =		r =		r =		

*NOTE: This is an alternate document to accommodate more than one method and for mailing of data

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COMPARATIVE STUDY

SPLIT SAMPLE HELPFUL HINTS

1. Samples to use

20 samples across assay range

- should be fresh if possible or preserved in appropriate manner
- 20% of samples should be at medical decision level
- 20% of samples should be at upper level of assay range
- should have adequate sample volume for running on both instruments
- samples, which are hemolyzed, icteric, etc. can be included if they are known not to interfere

2. Measurements

- a. Run samples on calibrated and within current QC'd instruments. Check logs if necessary.
- b. Specimens should be analyzed on the two instruments at the same time.
- c. Ensure that both instruments are performing well
- d. Have maintenance on both instruments up-to-date
- e. Recalibrate both instruments, if necessary
- f. Verify QC is within acceptable range

3. Data Review

- a. Evaluate slope (m) and y-intercept (b). If acceptable, validation is complete
- b. If the slope and intercept are not acceptable, the reason may be due to the range of samples that were tested. You should consider evaluating the bias at appropriate medical decision levels and compare to your requirement.
- e. If methodologies are not similar (i.e., THYoids), evaluate data in terms of respective reference interval and whether normal or abnormal.

REFERENCE RANGE STUDY

NSTRUMENT SERIAL #		DATE
METHOD		FLEX LOT #
Samples used:		
	(lot #if applicable)	
1. Statistics from split sample	comparison:	
Slope	m) =	
y-Intercept (b) =	
Correlation Coefficient (r) =	
Bias	=	
<u>OR</u>		
2. Calculation of Reference I	nterval from regression equ	ation
<u>OR</u>		
3. Statistics from 20 "normal.	, healthy" samples:	
X of instrument being valid	dated	
X of comparative instrume	nt	
Simple Bias		
SD of Bias		
t-value Conclusion:		
	ference Interval	
Laboratory Reference Interval		
Validator		Date
		Date
Supervisor		12(1)

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REFERENCE RANGE STUDY HELPFUL HINTS

1. Samples to use

a. Normal and healthy patient samples

<u>OR</u>

13

b. Proficiency Testing materials

2. Measurements

- a. Use split sample comparison results
- b. Use Proficiency Testing results
- c. At least 20 normal, healthy patient samples

3. Data Review

- a. If split sample comparison showed acceptable agreement to comparative method used by Dade Behring Inc., use Dade Behring Inc. suggested Reference Interval.
- b. If split sample comparison showed acceptable agreement with Laboratory's comparative method, use Dade Behring Inc. reference interval. If not acceptable, calculate new reference interval from regression equation.
- c. If Proficiency Testing results show good agreement with Dade Behring Inc. peer groups, use Dade Behring Inc. suggested Reference Interval.
- d. Calculate t-test on the means of the 20 "normal, healthy" samples processed on the instrument being validated and on the comparative instrument.

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QUALITATIVE SCREENING STUDY HELPFUL HINTS

1. Samples to use

a. Calibrators (use alternate lot from calibration lot)

OR

b. QC - avoid samples that exhibit possible matrix effects

OR

c. Proficiency Testing materials

2. Measurements

Run at least two samples once, i.e., positive and negative samples

3. Data Review

Measured result should agree with expected result except for those samples that are near the Positive/Negative cutoff. For those samples near the cut-off, it is acceptable to vary between positive and negative. See Test IFU for typical performance at the cut-off level.

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LINEAR REPORTABLE RANGE STUDY

INSTRUMENT SERIAL #	DATE
METHOD	FLEX LOT #
Samples used:	
(1	ot #if applicable)
Validator	Date
Supervisor	Date
Record result	s and graph data on next page

HELPFUL HINTS

1. Samples to use

a. Calibrator/Verifier - use calibrator/verifier of varying known concentrations.
 (data can be used from calibration and include both active*and passive** calibrator points)

OR

b. Elevated patient sample - make at least two dilutions in order to have three points

<u>OR</u>

c. High QC - make at least two dilutions in order to have three points

OR

d. High Calibrator/Verifier - make at least two dilutions in order to have three points

OR

e. Mixtures of high and low patient samples

2. Measurements

- a. Run at least three points
- b. Run a minimum of two replicates per test point

3. Data Review

a. Plot data and visually inspect for a straight line; set limits at each level

OR

- b. Calculate statistically
- * active = calibrator point used to update calibration coefficients
- ** passive = calibrator point not used to update calibration coefficients; processed as unknown sample

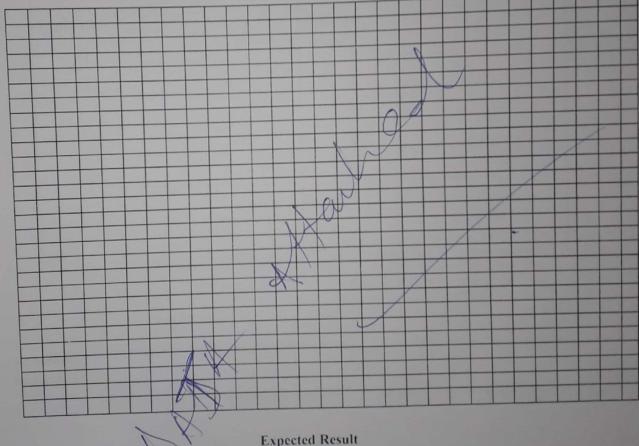
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LINEAR REPORTABLE RANGE STUDY

	Level 1	Level 2	Level 3	Level 4	Level 5	1.evel 6
Expected Result				-		
Measured Result Measured Result	_					
. reasoned result					_	
Mean =			_			

Graph the Data below or attach printout from statistical program, if available.

(for calibration data, plot expected result vs. measured result; for other linearity data, plot solution vs. measured result)



Expected Result

Measured Result

PRECISION STUDY Within-Run HELPFUL HINTS

1. Samples to use

- a. QC
 - Facilitates in establishing QC range, but keep in mind possible matrix effects
 - Samples should be near levels specified in IFU(Test Methodology/Insert Sheet)
- b. Calibrators/Verifiers near levels specified in QC
- c. Patient Samples near levels specified in IFU

2. Measurements

1

3

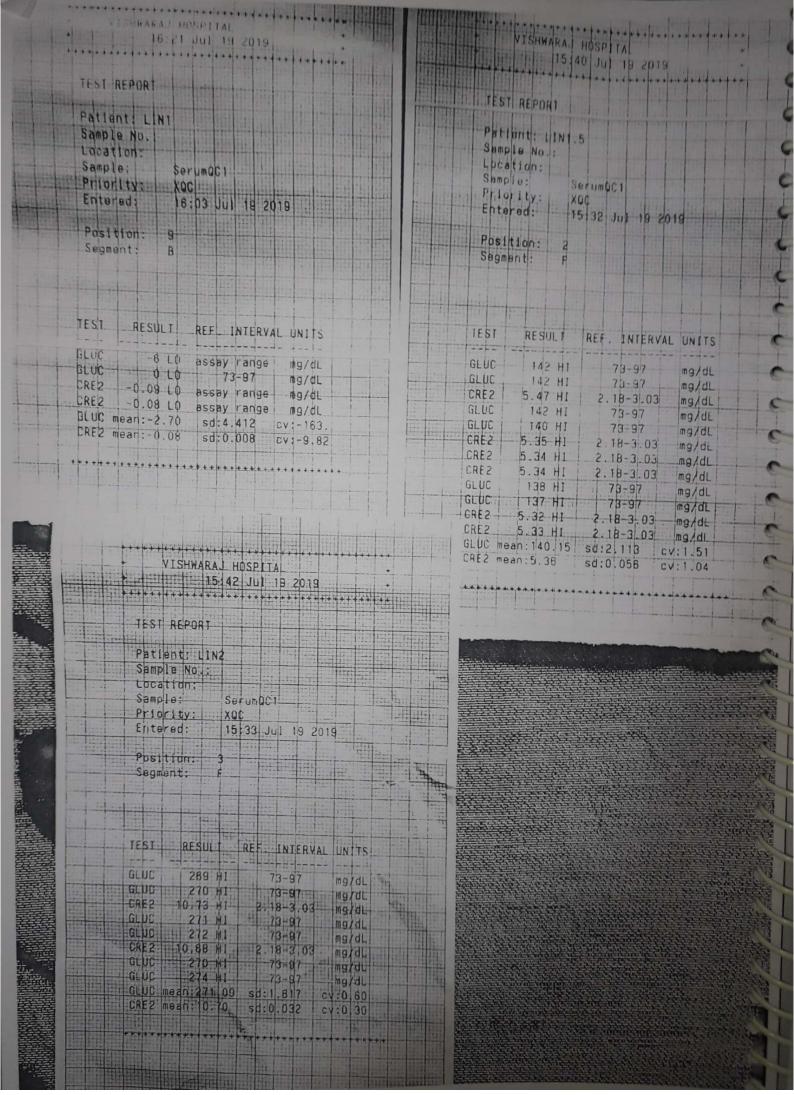
- a. Run in groups of five in order to compare to stated limits in Quality Control section of test methodology
- b. Run one or two levels

3. Data Review

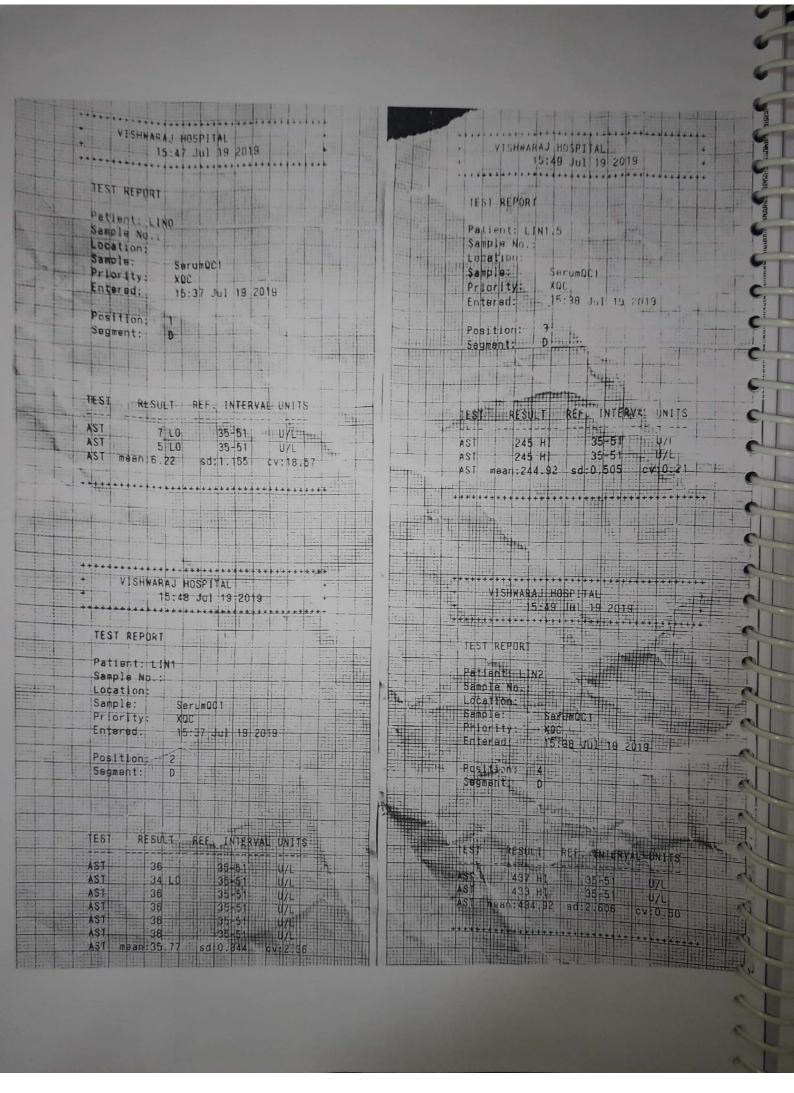
Compare your 5-test SD and/or CV to stated limits in Quality Control section of IFU. Your results should be *less than* what is stated

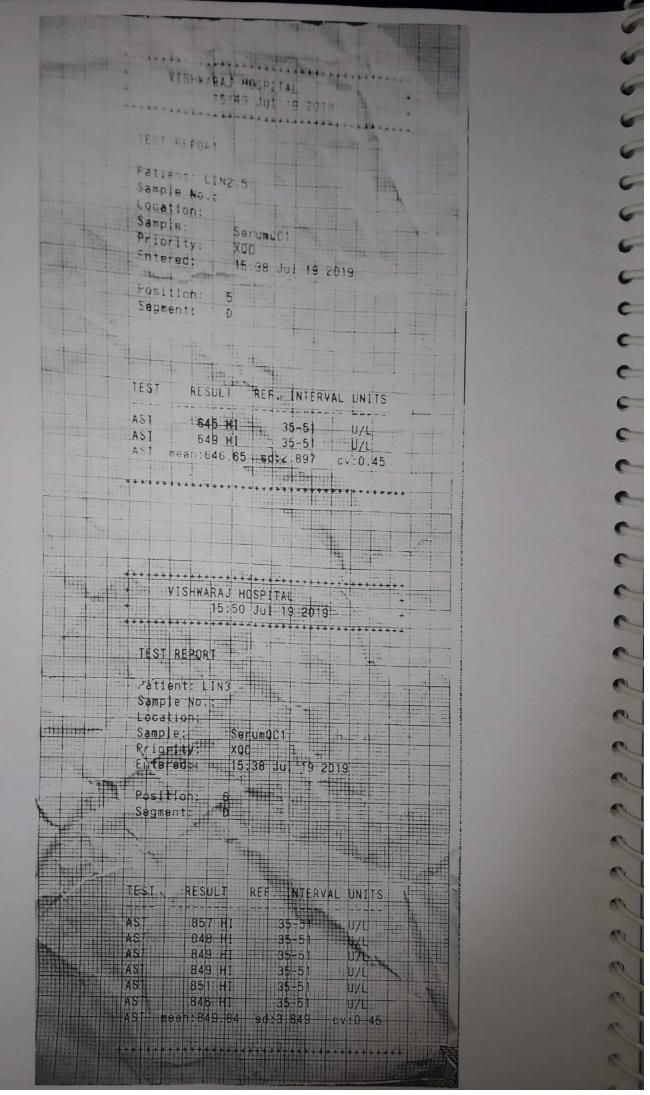
If your results are *greater than* stated limits, this may indicate a system malfunction and should be investigated before reporting patient results.

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	6
YISHMARAJ HOSPITAL	6
DEST REPORT	6
Patient LINE.5	6
Sample: Serumgon	C
Reitered: XQD 15:33 Jul 18 2019	6066
Position. 4 Segment:	-
	c
TEST RESULT REF. INTERVAL UNETS	c
GRE? 6.26 HT 2.18-3.03 mg/dL GLUC 409 HI 73-97 mg/dL GLUC 406 HI 73-37 mg/dL	
CRE2 16.22 H1 2.18-3.03 mg/dL CRE2 18-3.11 218-3.08 mg/dL	c
CHE2 16.13 HI 2.18-3.08 mg/dt CHE2 16.17 HI 2.18-3.08 mg/dt	4
GLUC mean: 407, 11 sd:2.198 cv:0.54 cv:0.87	
	4
VISHWARAJ HOSPITAL 15:44 JUL 19 2018	
Patlent: LIN3	e l
Location: SerumQC)	0
tnterad: 15:33 Jul 19 2019	0
Position: 5 Segment: E	
Patient: LIN3 Sample Ne: Location: Sample: SerumQCI Priprity: XQC Entered: 15:33 Jul 19:2019 Position: 5 Segment: E	0
TEST RESULT REF. INTERVAL UNITS BLUC 533 HI assay range mg/dL cRe2 21 44 HI assay range mg/dL cRe2 21 73 HI assay range mg/dL	0
GLUC 533 HI assay range mg/dL CRE2 21.44 HI assay range mg/dL	Q.
GLUC mean: 538,02 sd: 0 142 dv: 0,59 CRE2 mean: 21.66 sd: 0 200 dv: 0.93	01
1.00.00	2
	A To





+++++						
TEST	REPORT					
Patie	nt: IIN3					
Sampl	e No.:					
Locat					2	
Sampl Prior		coc Total				
Enter		5:26 Ju	1 19 2	019		
Posit	ion: 8					
Segme						
TEST	RESULT	REF.	INTERY	AL UNIT	S	
7P	15.7 HI	20021	range			
TP	15.6 HI	动脉病 复金黑黑海 地形海绵	range	9/dL 9/dL		
ALB	8.25 HI	والمراوات والواوات والمناه والمار	range			
ALB Me	8.27 HI an:8.26	assay sd:0	range 016	cv:0.19		
the first field with the last one had successful the last part with	an: 15.85			cv:0.85		

TEST REPORT		Patlent: LIN1.5	
Patient: LINO Semple No.: Logation: Sample: SerumOC1 Priority: XDC Entered: 15:05 Jul	19 2019	Sample: Serum Hniority: XOC Entered: 15:25 Hasition: 3 Segment: B	
Position: 9 Segment: D TEST RESULT REF. IN	TERVAL UNITS	TF 5.2 L0 TF 5.0 L0 ALB 2.32 L0	7.7-8.8 9/dL 7.7-8.8 9/dL 7.7-8.8 9/dL 8.89-4.37 9/dL 8.89-4.37 9/dL
TP -0.2 LD abselv r TP -0.2 LD abselv r ALB -0.08 LD abselv r ALB -0.08 LD abselv r ALB mean -0.08 LD abselv r TP mean -0.23 sd:0.0	ange g/dL ange g/dL ange g/dL 002 dv:+1.95	ALB mean: 2.33 sc	(0,010
VISHWARAJ HOSPITAL 16:25 Jul 19	2019	VISHMARAJ HOSPI TEST REPORT	19. 2019
Patient: LIN1 Sample No.: Location: Sample: SerumOC1		Sample No: Location: Sample: Serumpe Priority: XQD Entered: 15:25 J	1 9 20 19
Pribrity: XQE Entered: 18:05 Jul Position: 10 Segment: D	19 2019		ENTERVAL UNITS
TP 0.8 LO ASSAY R TP 1.3 LO ASSAY R ALB 0.39 LO ASSAY R ALB 0.09 LO ASSAY R ALB 0.09 LO ASSAY R	anga g/dL anga g/dL anga g/dL	7,6 40 7 7,7,6 40 7 7,7,6 40 7 7,7,6 40 7 7,7,6 40 7 7,7,6 40 7 8,2 7 1,4 8 4,17 3,6 1,4 8,6 1,4 8,6	7-8 8 9/4L 7-8 8 9/4L 7-8 8 9/4L 7-8 8 9/4L 7-8 8 9/4L 7-8 8 9/4L 89-4 37 9/4L 89-4 37 9/4L 89-4 37 9/4L 89-4 37 9/4L

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Patt		(在)		多在的数据 原因: 多比等等或数据: 多比等数据数据的 自然性效性或效应 自对性多性之效 自然性对性是数
Loca		1. 的复数 电中流代数 电电极电路 化多类原金 1. 2. 似何有 1. 注意有效 2. 或者性多 0. 电线 50 形式 2. 线 15. 2. 多元 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	**************************************	6031657 6301657 6015657 6126666 6226666 6226666
Samp	建 医特色蛋白 医电管管管 化基色素素 化苯			
Prio	rity: X			
Ente	red:	159 Jul 19	2019	
Posi	tion: 4			
Segm				
TEST	RESULT	REF INTER	VAL UNITS	
DBI	14.1 HI	0.1-0.6	mg/gL	
18.1	19.6 HI	0.6-1.1	mg/gL	
DBI	14.1 HI	0.1-0.3	mg/qL	
DBI	14.2 HI	0.1=0.3	医多种动物 医细胞类型 多毛细胞基 经基础证据	
DBI	14.3 HI	0.1-0.3	医医肠管 医多种性肾 医动物溶解 计可用表示	
DBI	14.2 HI	0.1+0.3	mg/dL	
DBI	14.2 HI	0.1-0.3	mg/dL	
TB1	19.6 HI	0.6-1.1	mg/dL	
TBI I	19.5 HI	0.6-1.1	mg/dL	
TBI	19.3 H.I	0.6+1.1	mg/dL	
TBI	19.5 HI	0.6-1.1	mg/dL	
1 1 1 1 1 1 1 1 1	19.3 41	0.6-1.1	mg/dL	
TBI Me	an: 19.45	sd:0.141	cv:0.73	
	ari: 14.18			

SER CLEAR CO.		
	VISHWARAJ HOSPITAL	
	16:15 Jul 19 2019	
1-10		
	TEST REPORT	
	Patient: LINZ	
	Sample No.: Location:	
	Sample: SerumUC1	
	Priority: XQQ	
	Position: 3 Segment: F	
	Saguent.	
	TEST RESULT REF. INTERVAL UNITS	
	DB1 7.7 HI 0.1-0.3 mg/dL	
	DBI 7.7 HI 0.1-0 3 mg/dL TBI 10.3 HI 0.6-1 1 mg/dL	
	TBI 10.4 HJ 0.6-1 1 mg/dL	
	TB1 meah: 10.37 sd:0.070 cv:0.67 DB1 meah: 7.72 sd:0.011 cv:0.15	
	444444444444444444444444444444444444444	
	4 YISHWARAJ HOSPITAL + 16:16 Jul 19 2019 +	•

	TEST REPORT	
	Patient; LJN3 Sample No.:	(
	Location: Sample: SerunQC1	
	Priority: XOC	
	Entered: 15:59 Jul 19 2019	
	Position: 5	8
	Segment: F	
	TEST RESULT REF. INTERVAL UNITS	6
	DB1 19.5 HI assay range mg/dl DB1 19.5 HI assay range mg/dL	9
	TB1 28.8 HI assay range mg/dL	9
	TB1 29.0 HI assay range M9/HL	
	781	9
		0

	*
VISHWARAJ HUSPITAL	
16:12 Jul 19 2019	
TEST REPORT	
Patient: LIN1	
Sample No.: Location:	
Sample: SerumOD1 Priority: XQU	
Entered: 15:58 Jul 18 2019	
Position: 1 Segment: F	
50gmant: F	
TEST RESULT REF. INTERVAL UNITS	
DBI 0.0 LO assay range mg/dL	
TBI 0.0 LO assay range mg/dL	
TBI 0.0 LD assay range mg/dl TBI hean: 0.02 sd:0.007 cv:-33.9	
DB! meah:0.00 sd:0.000 cv:11.58	
VISHWARAJ HOSPITAL +	
† 16:13 Jul 19 2019 +	
TEST REPORT	
Patient: LINI.5	
Sample Nu.: Location:	
Sample: SerumQC1 Priority: XQC	
Entered: 15:59 Jul 18:2019	
Position: 2 Segment: F	
TEST RESULT REF. INTERVAL UNITS	
DB1 3.4 H1 0.1-0.3 mg/dL TB1 4.0 H1 0.6-1,1 mg/dL	
T81 4.0 HI 0.6-TL1 mg/dL T81 3.9 HI 0.6-1.1 mg/dL	
TBI 4.0 HI 0.6-1.1 mg/dL TBI 3.9 HI 0.6-1.1 mg/dL	
TB 3.9 HI 0.6-1.1 mg/dL DB 3.3 HI 0.1-0.3 mg/dL	
DB 3.3 HI 00.3 mg/dL DB 3.3 HI 0.1-0.3 mg/dL	
DB1 3.8 HI 00.3 mg/dL DB1 3.8 HI 00.3 mg/dL	
TB1 meah:3.94 sd:0.018 cv:0.47	
DB. mean:3.33 sd:0 027 cv:0.82	

Date:

19th July 2019

Site: Address: VISHWARAJ HOSPITAL, LONI K, PUNE

Operator:

Rajbaug, Pune-Solapur Road, Loni Kalbhor, Pune

Mr. Kiran

Calib. LN:

FA2027 0DD036

-			~
	eff	OF	120
~	1611		112

C1:

-1.7864 0.0207

Inst. ID: DE271193 Flex LN:

Calibrations Samples				
Sample	Calib. BV	Obs. Value		
Cal: Level 1	0.40	0.37		
Cal: Level 1	0.40	0.37		
Cal: Level 1	0.40	0.39		
Cal: Level 2	4.10	4.12		
Cal: Level 2	4.10	4.15		
Cal: Level 2	4.10	4.16		
Cal: Level 3	8.10	8.09		
Cal: Level 3	8.10	8.06		
Cal: Level 4	8.10	8.09		

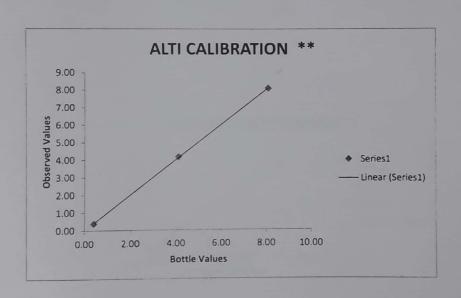
Slope (m) Intercept (b) 1.001 -0.002 Corr Coef (r) 1.000

Acceptable calibration specifications:

Intercept

_ Close to zero

or clinically insignificant



Accepted By _

Date:

Site: Address: 19th July 2019 VISHWARAJ HOSPITAL, LONI K, PUNE Rajbaug, Pune-Solapur Road, Loni Kalbhor, Pune

Coefficients: CO:

-11.843

Operator:

Mr. Kiran DE271193

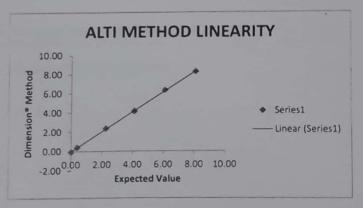
C1:

-3.672

Inst. ID: Flex LN: Calib. LN:

FA2027 0DD036

Linearity Test Samples (Values are in)			
Sample	Expected	Dimension®	
LO	0.00	-0.08	
LO	0.00	-0.08	
L1	0.40	0.39	
L1	0.40	0.39	
L1	0.40	0,39	
L1	0.40	0.40	
L1	0.40	0.40	
L1.5	2.25	2.32	
L1.5	2.25	2.34	
L2	4.10	4.17	
L2	4.10	4.14	
L2	4.10	4.13	
L2	4.10	4.13	
L2	4.10	4.13	
L2.5	6.10	6.31	
L2.5	6.10	6.31	
L3	8.10	8.25	
L3	8.10	8.27	



Linear Regression Statistics

No. of Samples	18
Slope	1.0271
Y-Intercept	-0.03
Correlation (r)	0.9999
Svx	0.05

Accepted By

Date: Site:

19th July 2019 VISHWARAJ HOSPITAL, LONI K, PUNE

Rajbaug, Pune-Solapur Road, Loni Kalbhor, Pune Mr. Kiran DE271193

Address: Operator: Inst. ID: Flex LN:

FA2027 0DD036 Calib. LN:

Precision Data Values in **

Sample	Result	Mean	SD	CV
LO	-0.08			
LO	-0.08	-0.1	0.000	
L1	0.39			
L1	0.39			
L1	0.39			
L1	0.40			
L1	0.40	0.4	0.005	1.4%
L1.5	2.32			
L1.5	2.34	2.3	0.014	0.6%
L2	4.17			
L2	4.14			
L2	4.13			
L2	4.13			
L2	4.13	4.1	0.017	0.4%
L2.5	6.31			
L2.5	6.31	6.3	0.000	0.0%
L3	8.25			
L3	8.27	6.7	1.715	0.5%

The assay range for this method is:	0.60	to	8.00	g/dL	
The linearity for this method is:	-0.08	to	8.10	g/dL	
Analytical Sensitivity Verification			-0.08	g/dL	

Control of the Control	Date
ccented By	Date

Site: Address 19th July 2019 VISHWARAJ HOSPITAL, LONI K, PUNE Rajbaug, Pune-Solapur Road, Loni Kalbhor, Pune

Operato Inst. ID

Flex LN Calib. Coefficients: C0: C1:

3.7566 0.0245

40	DE27440
	DE27119
10	EA2042
811	000000

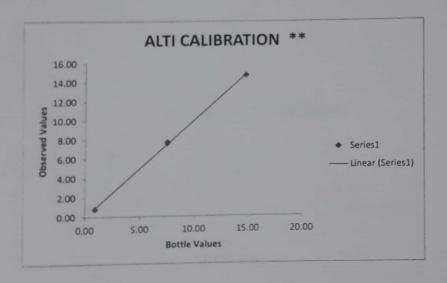
Campiations Samples				
Sample	Calib, BV	Obs. Value		
Cal: Level 1	0.90	0.80		
Cal: Level 1	0.90	0.80		
Cal: Level 1	0.90	0.80		
Cal: Level 2	7.50	7.70		
Cal: Level 2	7.50	7.70		
Cal: Level 2	7.50	7.60		
Cal: Level 3	14.80	14.70		
Cal: Level 3	14,80	14.70		
Cal: Level 4	14.80	14.70		

1.002 Slope (m) -0.015 Intercept (b) Corr Coef (r) 1.000

Acceptable calibration specifications:

0.97 - 1.03 Slope Close to zero Intercept

or clinically insignificant



Accepted By _

Date:

Site:

19th July 2019 VISHWARAJ HOSPITAL, LONI K, PUNE

Coefficients:

Address: Operator:

Rajbaug, Pune-Solapur Road, Loni Kalbhor, Pune

C1:

3.7566 0.0245

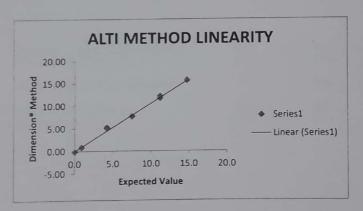
Inst. ID:

Mr. Kiran DE271193

Flex LN: Calib. LN:

EA2042 0DD036

Sample	Expected	Dimension®
LO	0.0	-0.20
LO	0.0	-0.20
L1	0.9	0.80
L1	0.9	0.80
L1.5	4.2	5.20
L1.5	4.2	5.00
L2	7.5	7.70
L2	7.5	7.60
L2.5	11.2	12.10
L2.5	11.2	11.70
L3	14.8	15.70
L3	14.8	15.60



Linear Regression Statistics

Lilical Hagistan	
No. of Samples	15
Slope	1.0585
Y-Intercept	-0.06
Correlation (r)	0.9980
Svx	0.35

Accepted By _

Date:

Site:

Address:

19th July 2019
VISHWARAJ HOSPITAL, LONI K, PUNE
Rajbaug, Pune-Solapur Road, Loni Kalbhor, Pune
Mr. Kiran
DE271193
EA2022

Inst. ID:

Flex LN: Callb. LN:

0DD036

Precision Data Values in **

Sample	Result	Mean	SD	cv
LO	-0.20			
LO	-0.20	-0.2	0.000	
L1	0.80			
L1	0.80	0.8	0.000	0.0%
L1.5	5.20			
L1.5	5.00	5.1	0.141	2.8%
L2	7.70			
L2	7.60	7.6	0.045	0.6%
L2.5	12.10			
L2.5	11.70	11.9	0.283	2.4%
L3	15.70			
L3	15.60	15.7	0.071	0.5%

The assay range for this method is: The linearity for this method is:	2.00	to	12.00 15.70	g/dL g/dL	
The linearity for this method is.	-0.20	10	15.70	g/uL	
Analytical Sensitivity Verification			0.00	g/dL	
The precision guidelines	CONC.		SD		
for this method are:	6.06	<	0.09	g/dL	

Accepted By __

Date:

19th July 2019

Site:

VISHWARAJ HOSPITAL, LONI K, PUNE

Address: Operator:

Rajbaug, Pune-Solapur Road, Loni Kalbhor, Pune

Inst. ID:

Mr. Kiran DE271193 GA2096

Flex LN: Calib. LN:

Cal: Level 3

0GJ061

C1:

Coefficients:

2.000 -3.537

Calibrations Samples				
Sample	Calib, BV	Obs. Value		
Cal: Level 1	36.0	38.0		
Cal: Level 1	36.0	35.0		
Cal: Level 1	36.0	36.0		
Cal: Level 2	411.0	431.0		
Cal: Level 2	411.0	437.0		
Cal: Level 2	411.0	432.0		
Cal: Level 3	785.0	816.0		
Cal: Level 3	785.0	823.0		

785.0

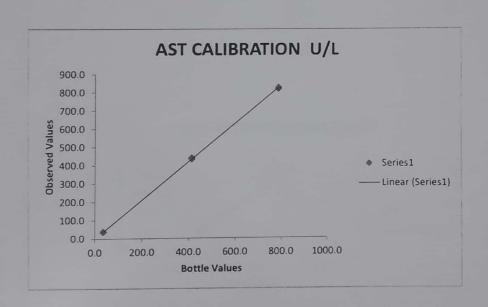
1.048 Slope (m) Intercept (b) -0.002 1.000 Corr Coef (r)

Acceptable calibration specifications:

0.9 - 1.1 Close to zero

Intercept

or clinically insignificant



824.0

Accepted By

Date

Date:

Site: Address: 19th July 2019 VISHWARAJ HOSPITAL, LONI K, PUNE

Rajbaug, Pune-Solapur Road, Loni Kalbhor, Pune Operator: Mr. Kiran

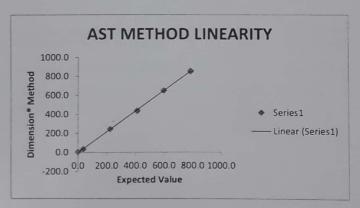
Inst. ID: DE271193 Flex LN: GA2096 Calib. LN: 0GJ061

Coefficients:

C0: C1:

2.000 -3.537

Sample	Expected	Dimension®
LO	0.0	7.0
LO	0.0	5.0
L1	36.0	36.0
L1	36.0	34.0
L1	36.0	36.0
L1	36.0	36.0
L1	36.0	36.0
L1.5	223.5	245.0
L1.5	223.5	245.0
L2	411.0	437.0
L2	411.0	433.0
L2.5	598.0	645.0
L2.5	598.0	649.0
L3	785.0	857.0
L3	785.0	848.0
L3	785.0	849.0
L3	785.0	849.0
L3	785.0	851.0



Linear Regression Statistics

No. of Samples	18
Slope	1.0833
Y-Intercept	-1.06
Correlation (r)	0.9999
Syx	5.07

Accepted By_

Date:

19th July 2019

Site:

VISHWARAJ HOSPITAL, LONI K, PUNE

Address: Operator:

Rajbaug, Pune-Solapur Road, Loni Kalbhor, Pune

Inst. ID: Flex LN:

Calib. LN:

Mr. Kiran DE271193 GA2096

0GJ061

Precision Data Values in U/L

Sample	Result	Mean	SD	CV
LO	7.0			
LO	5.0	6.0	1.414	23.6%
L1	36.0			
L1	34.0			
L1	36.0			
L1	36.0			
L1	36.0	35.6	0.894	2.5%
L1.5	245.0			
L1.5	245.0	245.0	0.000	0.0%
L2	437.0			
L2	433.0	435.0	2.828	0.7%
L2.5	645.0			
L2.5	649.0	647.0	2.828	0.4%
L3	857.0			
L3	848.0			
L3	849.0			
L3	849.0			
L3	851.0	850.8	3.633	0.4%

The assay range for this method is: The linearity for this method is:	0.00 2.88	to	857.00 787.13	U/L U/L
Analytical Sensitivity Verification			2.88	U/L
The precision guidelines for this method are:	CONC. 40.00 440.00 830.00	< < <	SD 2.50 8.00 15.00	U/L U/L U/L

ccepted By	Date

Date: Site: Address: Inst. ID: Flex LN: Calib. LN:

Dade Behring Dimension® Report for CRE2 Method

19th July 2019

VISHWARAJ HOSPITAL, LONI K, PUNE

Rajbaug, Pune-Solapur Road, Loni Kalbhor, Pune Mr. Kiran

Operator:

DE271193 GB2075 0LD077

Coefficients:

-0.3650

C1:

0.0779

Calibrations Samples			
Sample	Calib. BV	Obs. Value	
Cal: Level 1	0.0	0.01	
Cal: Level 1	0.0	0.01	
Cal: Level 1	0.0	0.00	
Cal: Level 2	10.97	10.69	
Cal: Level 2	10.97	10.75	
Cal: Level 2	10.97	10.98	
Cal: Level 3	21.61	21.84	
Cal: Level 3	21.61	21.74	
Cal: Level 3	21.61	21.49	

1.003 Slope (m) -0.061 Intercept (b) 1.000 Corr Coef (r)

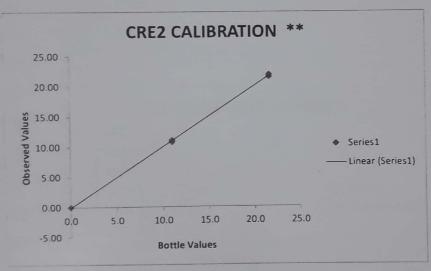
Acceptable calibration specifications:

Slope

Intercept

Close to zero

or clinically insignificant



Accepted By_

Date:

19th July 2019

Site:

VISHWARAJ HOSPITAL, LONI K, PUNE

Address:

Rajbaug, Pune-Solapur Road, Loni Kalbhor, Pune

Operator: Inst. ID: Flex LN:

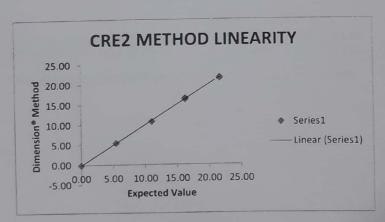
Calib. LN:

Mr. Kiran DE271193 GB2075 0LD077 Coefficients:

C0: C1: -0.3650 0.0779

Linearity Test Samples (Values are in **)

Linearity Test Samples (Values are III)			
Sample	Expected	Dimension®	
L1	0.00	-0.09	
L1	0.00	-0.08	
L1.5	5.40	5.35	
L1.5	5.40	5.34	
L1.5	5.40	5.34	
L1.5	5.40	5.34	
L1.5	5.40	5.33	
L2	10.97	10.73	
L2	10.97	10.68	
L2.5	16.20	16.26	
L2.5	16.20	16.22	
L2.5	16.20	16.43	
L2.5	16.20	16.17	
L2.5	16.20	16.48	
L3	21.61	21.44	
L3	21.61	21.73	



Linear Regression Statistics

No. of Samples	16
Slope	1.0077
Y-Intercept	-0.11
Correlation (r)	0.9998
Syx	0.14

Accepted By _____

Date

Date:

Site:

19th July 2019
VISHWARAJ HOSPITAL, LONI K, PUNE
Rajbaug, Pune-Solapur Road, Loni Kalbhor, Pune
Mr. Kiran
DE271193
GB2075
0LD077 Address:

Operator: Inst. ID: Flex LN: Calib. LN:

Precision Data Values in **

Sample	Result	Mean	SD	CV
L1	-0.09			
L1	-0.08	-0.1	0.007	
L1.5	5.35			
L1.5	5.34			
L1.5	5.34			
L1.5	5.34			
L1.5	5.33	5.3	0.007	0.1%
L2	10.73			
L2	10.68	10.7	0.035	0.3%
L2.5	16.26			
L2.5	16.22			
L2.5	16.43			
L2.5	16.17			
L2.5	16.48	16.3	0.136	0.8%
L3	21.44			
L3	21.73	21.6	0.205	1.0%

The assay range for this method is: The linearity for this method is:	0.00	to	21.00 21.73	mg/dl mg/dl
Analytical Sensitivity Verification			0.00	mg/dl

Accepted By_ Date_

Date: Site:

19th July 2019

Address: Operator: VISHWARAJ HOSPITAL, LONI K, PUNE

Obs. Value

0.0

0.0

0.0

7.5

7.5

7.5

19.0

19.0

19.0

FB2144

0GD046

Calibrations Samples

Calib. BV

0.0

0.0

0.0

7.2

7.2

7.2

19.1

19.1

19.1

Inst. ID: Flex LN: Calib. LN:

Sample

Cal: Level 1 Cal: Level 1

Cal: Level 1

Cal: Level 2 Cal: Level 2

Cal: Level 2

STATE OF THE STATE OF STATE OF

Rajbaug, Pune-Solapur Road, Loni Kalbhor, Pune Mr. Kiran DE271193

Coefficients: 0.0377 0.0757

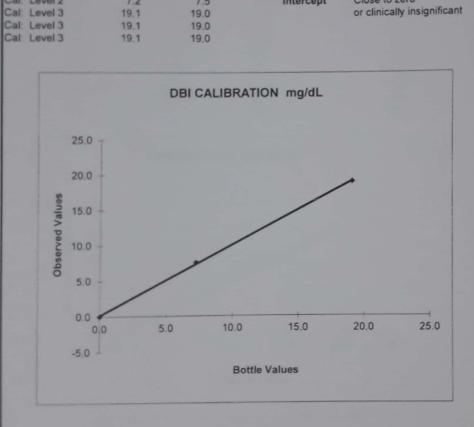
0.994 Slope (m) 0.131 Intercept (b) Corr Coef (r) 1.000

Acceptable calibration specifications:

Slope Intercept

0.97 - 1.03 Close to zero

or clinically insignificant



Accepted By

Date:

19th July 2019 VISHWARAJ HOSPITAL, LONI K, PUNE Site:

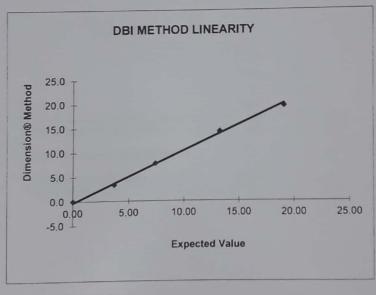
Rajbaug, Pune-Solapur Road, Loni Kalbhor, Pune Mr. Kiran Address:

Operator: DE271193 Inst. ID: Flex LN: Calib. LN: FB2144 0GD046

-	- 661	ain	nts:
	еш	CIE	III.S.

0.0377 0.0757 C1:

Linearity Test Samples (Values are in mg/dL)			
Sample	Expected	Dimension	
L1	0.00	0.0	
L1	0.00	0.0	
L1.5	3.70	3.3	
	3.70	3.3	
L1.5	7.40	7.7	
L2	7.40	7.7	
L2	13.25	14.1	
L2.5	13.25	14.1	
L2.5	13.25	14.2	
L2.5	13.25	14.3	
L2.5	13.25	14.2	
L2.5	19.10	19.6	
L3		19.5	
13	19.10	10.0	



Linear Regression Statistics

No. of Samples Slope Y-Intercept 1.0667 -0.31 0.9985 Correlation (r) Syx 0.38

Accepted By

Calib. LN:

Dade Behring Dimension® Report for CRE2 Method

Date:

Site:

19th July 2019 VISHWARAJ HOSPITAL, LONI K, PUNE

Address:

Rajbaug, Pune-Solapur Road, Loni Kalbhor, Pune

Operator: Inst. ID: Flex LN:

Mr. Kiran DE271193 FB2144 0GD046

Precision Data Values in mg/dL

Sample	Result	Mean	SD	CV
L1	0.0			
L1	0.0	0.0	0.013	
L1.5	3.3			
L1.5	3.3	3.3	0.000	0.0%
L2	7.7			
L2	7.7	7.7	0.000	0.0%
L2.5	14.1			
L2.5	14.1			
L2.5	14.2			
L2.5	14.3			
L2.5	14.2	14.2	0.084	0.6%
L3	19.6			
L3	19.5	19.6	0.071	0.4%

The assay range for this method is: The linearity for this method is:	0.05 0.00	to to	16.00 19.10	mg/dL mg/dL
Analytical Sensitivity Verification			0.00	mg/dL
The precision guidelines for this method are:	CONC. 0.60 16.00	< <	SD 0.06 0.34	mg/dL mg/dL

Date_ Accepted By _

Date:

19th July 2019

Site: Address: VISHWARAJ HOSPITAL, LONI K, PUNE

Rajbaug, Pune-Solapur Road, Loni Kalbhor, Pune

Operator: Inst. ID: Flex LN:

Mr. Kiran DE271193 GA2068

Calib. LN:

0GD046

Coefficients:

CO:

-0.0763

C1:

0.0777

Sample	Calib. BV	Obs. Value
Cal: Level 1	0.0	0.0
Cal: Level 1	0.0	0.0
Cal: Level 1	0.0	0.0
Cal: Level 2	9.8	9.8
Cal: Level 2	9.8	9.8
Cal: Level 2	9.8	9.8
Cal: Level 3	27.3	27.3
Cal: Level 3	27.3	27.3
Cal: Level 3	27.3	27.4

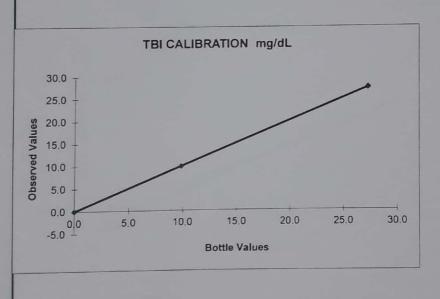
1.001 Slope (m) -0.005 Intercept (b) 1.000 Corr Coef (r)

Acceptable calibration specifications:

0.97 - 1.03 Slope Intercept

Close to zero

or clinically insignificant



Accepted By

Date

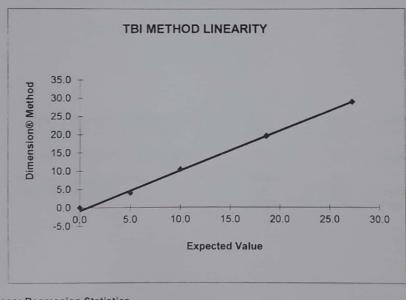
Date:

19th July 2019 VISHWARAJ HOSPITAL, LONI K, PUNE Site:

Coefficients: Address: -0.0763 Rajbaug, Pune-Solapur Road, Loni Kalbhor, Pune 0.0777 C1:

Operator: Mr. Kiran DE271193 GA2068 Inst. ID: Flex LN: Calib. LN: 0GD046

Linearity Test Samples (Values are in mg/dL)					
Sample	Expected	Dimension®			
L1	0.0	0.0			
L1	0.0	0.0			
L1.5	5.0	4.0			
L1.5	5.0	4.0			
L1.5	5.0	3.9			
L1.5	5.0	4.0			
L1.5	5.0	3.9			
L2	10.0	10.3			
L2	10.0	10.4			
L2.5	18.6	19.6			
L2.5	18.6	19.6			
L2.5	18.6	19.5			
L2.5	18.6	19.3			
L2.5	18.6	19.5			
L3	27.3	28.8			
L3	27.3	29.0			



Linear Regression Statistics
No. of Samples 1.0911 Slope Y-Intercept Correlation (r) -0.91 0.9987 0.52 Syx

Accepted By _ Date_

Date:

0GD046

Site:

Calib. LN:

19th July 2019 VISHWARAJ HOSPITAL, LONI K, PUNE

Address:

Rajbaug, Pune-Solapur Road, Loni Kalbhor, Pune

Operator: Inst. ID: Mr. Kiran DE271193 Flex LN: GA2068

Precision Data Values in mg/dL

Sample	Result	Mean	SD	CV
L1	0.0			
L1	0.0	0.0	0.000	
L1.5	4.0			
L1.5	4.0			
L1.5	3.9			
L1.5	4.0			
L1.5	3.9	4.0	0.055	1.4%
L2	10.3			
L2	10.4	10.4	0.071	0.7%
L2.5	19.6			
L2.5	19.6			
L2.5	19.5			
L2.5	19.3			
L2.5	19.5	19.5	0.122	0.6%
L3	28.8			
L3	29.0	28.9	0.141	0.5%

The assay range for this method is: The linearity for this method is:	0.10 -0.10	to to	25.00 27.40	mg/dL mg/dL
Analytical Sensitivity Verification			-0.10	mg/dL
The precision guidelines for this method are:	CONC. 1.10 18.80	< <	SD 0.03 0.56	mg/dL mg/dL

Accepted By Date

Date:

19th July 2019

Site:

VISHWARAJ HOSPITAL, LONI K, PUNE

Address:

Rajbaug, Pune-Solapur Road, Loni Kalbhor, Pune

Operator: Inst. ID:

Mr. Kiran DE271193 Coefficients:

C0: C1: 0.265 0.907

Flex LN	:
Calib. L	N:

GB1292 0LD077

Calibrations Samples					
Sample	Calib. BV	Obs. Value			
Cal: Level 1	0.0	1.0			
Cal: Level 1	0.0	1.0			
Cal: Level 1	0.0	1.0			
Cal: Level 2	274.0	273.0			
Cal: Level 2	274.0	272.0			
Cal: Level 2	274.0	272.0			
Cal: Level 3	538.0	542.0			
Cal: Level 3	538.0	540.0			
Cal: Level 3	538.0	534.0			

 Slope (m)
 0.999

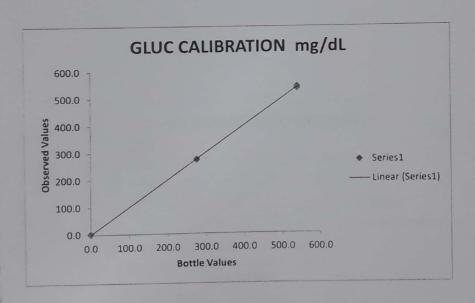
 Intercept (b)
 0.183

 Corr Coef (r)
 1.000

Acceptable calibration specifications:

Slope Intercept 0.97 - 1.03 Close to zero

or clinically insignificant



Accepted By _____

Date _____

Date:

Site: Address:

19th July 2019 VISHWARAJ HOSPITAL, LONI K, PUNE Rajbaug, Pune-Solapur Road, Loni Kalbhor, Pune

Coefficients: C1:

0.907

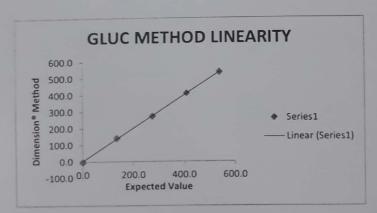
Operator: Inst. ID:

Mr. Kiran DE271193 GB1292

Flex LN:

Calib. LN: 0LD077

Linearity Test Samples (Values are in mg/dL) Sample Expected Dimension				
Sample	Expected	-6.0		
L1	0.0			
L1	0.0	0.0		
L1.5	134.5	142.0		
L1.5	134.5	142.0		
L1.5	134.5	142.0		
L1.5	134.5	140.0		
L1.5	134.5	138.0		
L2	274.0	269.0		
L2	274.0	270.0		
L2	274.0	271.0		
L2	274.0	272.0		
L2	274.0	270.0		
L2.5	408.5	409.0		
L2.5	408.5	406.0		
L3	538.0	537.0		
L3	538.0	533.0		



Linear Regression Statistics

No. of Samples	16
Slope	0.9888
Y-Intercept	2.74
Correlation (r)	0.9996
Svx	4.61

Accepted By

Date

Date:

19th July 2019

Site:

VISHWARAJ HOSPITAL, LONI K, PUNE

Address: Operator: Rajbaug, Pune-Solapur Road, Loni Kalbhor, Pune

Inst. ID:

Mr. Kiran DE271193

Flex LN: Calib. LN:

GB1292 0LD077

Precision Data Values in mg/dL

Sample	Result	Mean	SD	CV
L1	-6.0			
L1	0.0	-3.0	4.243	
L1.5	142.0			
L1.5	142.0			
L1.5	142.0			
L1.5	140.0			
L1.5	138.0	140.8	1.789	1.3%
L2	269.0			
L2	270.0			
L2	271.0			
L2	272.0			
L2	270.0	270.4	1.140	0.4%
L2.5	409.0			
L2.5	406.0	407.5	2.121	0.5%
L3	537.0			
L3	533.0	535.0	2.828	0.5%

The assay range for this method is: The linearity for this method is:	0.00 6.00	to	500.00 537.00	mg/dL mg/dL
Analytical Sensitivity Verification			6.00	mg/dL
The precision guidelines for this method are:	CONC. 78.00 264.00	< <	SD 4.70 12.00	mg/dL mg/dL

	Date
annind Ry	Date