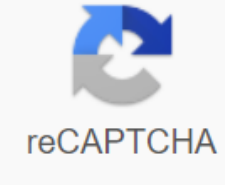




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1 AU480 Chemistry Analyzer In-Lab Training Guide AU480 In Laboratory Guide Page 1 of 152 2 AU480 In Laboratory Guide Page 2 of 152 3 AU480 Chemistry Analyzer WARNING AND GREFAS Read all product guides and consult with Beckman Coulter-trained staff before trying to manage the tool. Beckman Coulter, Inc. encourages its customers and employees to comply with all national health and safety standards, such as the use of barrier protection. This may include, but is not limited to, goggles, gloves, suitable laboratory attire when operating or maintaining this or any other automated laboratory equipment. INTENTION FOR USE This document is not intended to replace information in the user manual or rapid response manual. The information in the User's Guide and Rapid Response Guide shows information into any other guide. REVISION STATUS Based on: AU480 Chemistry Analyzer Software Version 1.81 AU480 Chemistry Analyzer User Guide B28624AA AU480 Chemistry Analyzer Fast Response Guide B28625AA TRADEMARKS AU480 Chemistry Analyzer AU480 In Lab Training Guide Page 3 of 152 4 AU480 In Lab Guide To Learning Page 4 of 152 5 Table Contents AU480 Chemistry Analyzer In Laboratory Training Guide Chapter 1 Analyzer Review... 7 AU480 Equipment... 8 Sample Processing Review ISE Testing Sequence Chapter 2 Software Review AU480 Home Menu Button Home Button Area Menu Menu Menu Menu Menu Menu Path Online Help Chapter 3 Daily Launch Set Start Conditions Daily Analyzer Check And Recharge ISE Startups Reagents Check ISE Reagents ISE Startups ISE Daily Process Analyzer of Quality Control Maintenance (KK) Chapter 4 Sample Processing and Programming Samples Data Prefix AU480 Verified Sample Containers Examples of Manual Processing Examples Programming Additional Programming Features Sample AU480 In Laboratory Training Guide Page 5 of 152 6 Chapter 5 Monitor and Review Results Print RB/CAL/KC Results Calibrating Monitor KK Monitor and KK Data Review Patient Results Chapter 6 Maintain Resources Weekly and every other week maintenance Monthly Maintenance Chapter 7 How-necessary Task Fix (Assign) Reagent Position Setting for External Media Perform the final process (system shutdown) Perform and recover after an emergency stop to disable the test transfer to host Head 8 Troubleshooting Flags Troubles Reagent Empty. Calibration, and KK Failures Distemper Tips Chapter 9 Resources Beckman Coulter Support Links Chapter 10 In Laboratory Training Competence Exercise In Lab Training Exercise Key AU480 In Laboratory Training Guide Page 6 of 152 7 Chapter 1 Analyzer Review Introduction AU480 is an automated chemistry analyzer that that analyzes in samples, combined with appropriate reagents, calibration, quality control material (KK) and other accessories. The system is designed only for diagnostic use in vitro. AU480 performs automated analysis of serum, urine and other fluids. This chapter will cover the following: Analyzer and ISE Hardware Components Photometer Review of ISE Sample Processing Review Understanding the function of hardware components in processing samples per analyzer can assist in the efficient operation of the system, as well as with maintenance and troubleshooting. Note: The ISE module is an additional analyzer module. You can skip any ISE-related information and procedures in the Lab Training Guide if your lab does not have an ISE module. The practice of using the information presented in the following pages to identify hardware components on the Analyzer Review of Sample Processing Reviews for tests processed in ditch (photometric) and ISE animation units for the reaction process can be found on the Beckman Coulter website. Use the next path to access electronic training modules: -SUPPORT - Training - Education - Diagnosis/Chemistry - AU480 - select tab On Demand: AU480 E-learning review: Provides hardware and software review AU480 with Reaction Animation AU480 IS E-Learning Review: Provides a hardware overview of the ISE module with an animation reaction process AU480 In Laboratory Training Guide Page 7 of 152 8 AU480 Equipment 1 Component Rack Feeder Module 2 Sample Probe 3 Cuvette Wheel 4 ReAgent Refrigerator 5 Reagent Probe 6 Mix Bar Component 7 Photometer Lamp 8 Washing Nozzle Component 9 STAT Table 10 ISE Module 11 Rack The Collection Area Feature holds the waiting racks for processing and feeds the rack through an analyzer to sample the Aspirata sample (in combination with a sample syringe) from a sample container and distributes in a ditch or ISE sample pot house 88 glass ditch where reactions occur and absorbent readings are taken by the chilled compartment, which houses R1 and R2 reagents (76 positions) aspirates and distributes the reagent (in combination with a syringe reagent) into a glass ditch, located in the spiral wheel and L-shaped mixture of bars on the component mix the contents of the ditch after the R1 reagent, sample, and the R2 reagent is distributed by the photometry component of the system, which is used to measure reactions OF Cleansing, rinsing, and drying ditch before and after analysis Use for processing STAT samples and for ISE calibration and maintenance; holds W1 cleaning solution Sodium Measures (NA), potassium (K), and chloride (CL) ions indirect (diluted) ion-selective electrode (ISE) method collects rack system no longer needs operator removal AU480 In Laboratory Training Guide Page of 152 9 AU480 Equipment (Continued) Component 1 Tank Storage Area 2 Reagent Reagent The function of the House DI water tank, washing the solution tank, and diluted pot is a wash solution; used to clean cuvettes and mix bars and rinse aspirate components and distributes specified volume of R1 and R2 3 ISE Buffer Syringe Aspirates and distributes ISE Buffer Reagent 4 ISE Reagents Mass Reagents required for electrolyte analysis (ISE Help, ISE MID Standard, ISE Buffer) Ctrl/Alt/Del required to turn off the RESET computer (white). Use after EM STOP or power failure before pressing the ON (KNOCK) AU480 In The Lab Guide Page 9 of 152 10 Example Processing Review Step Action Step 1 Sample rack is placed on the feed rack by the operator 2 Operator presses Start 3 Rack moves to the bar code reader code, where the sample programming is identifiable 4 Rack moves to the rack Working with a reagent syringe, delivers the R1 reagent (concentrated) and diluted in cuvette 6 A R1 mix bar mix mixes diluted reagent in cuvette 7 Photometer begins to take readings of 8 sample probe, work with sample syringe, aspirate and distributes the sample in a ditch in cuvette wheel AU480 In-Lab Training Guide Page 10 of 152 11 Step Action 9 Sample Mix Mix mixes The photometer continues to take readings of 10 If necessary, the reagent probe, Working with a syringe reagent, delivers the reagent R2 (concentrated) and dilute in cuvette 11 R2 mixture reaction mixture mixture 12 Photometer continues to take reactionary readings cuvette washed, washed and dried nozzle probes using diluted wash solution and DI water 13 Note: Each nozzle for washing is a 3-way nozzle used to clean cuvettes: Long Aspirates Liquid Medium distributes liquid The shortest fluid overflow aspirate When the sample no longer needs a rack moved to the rack 14 area collecting note: Priority sample can be processed using the STAT table at any time during normal sample treatment. This allows you to process the priority sample before loading the samples through the rack feeder module. AU480 In-Lab Training Guide Page 11 of 152 12 ISE Testing Sequence Step 1 Action Aspiration Roller Pump pulls use reference solution from the bottle and past the REF electrode, where measurements are taken and the decision is sent to waste. 2 ISE Buffer Solution is delivered to a pot sample modeled on an ISE Buffer Sample syringe, aspired by a trial probe, and distributed to a pot sample where the sample and use Buffer solution are mixed in a mix bar. The mixture of aspiration roller pump draws a diluted sample through the flowcell, where Taken. The excess of the diluted sample in the pot sample is stretched through the bypass of the mixture aspiration of the roller pump and sent to waste. Once the urine sample is processed, the ISE Buffer Solution is delivered to the pot sample with an ISE Buffer syringe and stretched through the teculle by a pump to rinse the flowing mixture. After processing each sample, the MID Standard pump pulls the standard ISE MID solution out of the bottle and delivers it to the pot sample. The mix aspiration pump draws the ISE MID STANDARD solution through the flowcell to conditions the electrodes and take measurements and a solution sent to waste. AU480 In-Lab Training Guide Page 12 of 152 13 Chapter 2 Software Review Introduction software is used by the operator to interact with the analyzer and perform system operations. This chapter will cover the following: Common screen areas of the main menu AU480 Structure Screen Software Access To The Help Menu Being familiar with the software can help in understanding and effectively the system. Three methods of navigation software are available to interact with the software: Touch screen keyboard mouse Practice Use the information on the following pages to identify common areas of the software and home menu Access to the Help button to identify the information available in the system. Help is not available when the analyzer is in the main button measurement mode not marked on the software. Place the mouse pointer over the button to determine the name of the AU480 In-Lab Learning Guide Page 13 of the 152 14 Home Button Area AU480 Home Menu Buttons Buttons Button Area Signals AU480 In-Lab Learning Guide Page 14 of the 152 15 Main Button Area Main Button area is for viewing from all screens of alarm list. The Home Displays Home Screen Menu Menu Menu Start Displays screen menu list displays the user's menu screen (operator determined by button label) Displays the current mode. Displays the time remaining for certain maintenance operations, begins the analysis of pauses analysis. The system stops at the first test, for which the Feeder Stop Stops component of the rack delivery was not dosed. Analysis of samples in loaded racks continues. Stop/Standby Help Logout End Time Display area Stops Analysis. All data in the process will be lost. In Stop mode, select this button to bring the system back to standby, the system displays menus to access the operator's documentation and video maintenance catalog. This button is not available when the system in Measurement Mode. Logs from the operator shuts down the system (End of the Process). Shutting down the system turns off the auxiliary power source, including the lamp and the computer displays the current date and and AU480 In Lab Training Guide Page 15 of 152 16 Home Menu Home Menu List Status Description: Displays a status sample in the analysis stage, estimated completion time, and Results Analyzer Status: Displays Analyzer Status and Temperature Simple STAT Mode: Processes STAT Samples One by The Minimum Operator Action required. Samples cannot be processed in normal analyzer modes when using simple STAT Mode Message Area Description displays reports of systemic conditions that may affect the results of color analysis indicate the severity level of the message: Red Orange Yellow Green You can't start the analysis until you address the red messages you can start analyzing. Carefully review the message and take corrective steps that can be started. Take a close look at the message and take corrective action. If they are not addressed to the system status notification, the yellow messages will be overused to orange (heavier). The system has no operational problems Symbol displays in the top left of the screen to match the heaviest message color When the message is selected from the message area. The system displays a dialogue with information and corrective actions to message the main affected areas on the AU480 In-Lab Learning Guide Chart Page 16 of the 152 17 Home Screen Shortcut (Jump) Shortcut Buttons (Jump) provide direct access to the menu description, a group of tests to use, the name of the operator, and start selective numbers Displays the status of the reagent and cleaning solution status displays analyzer and ISE service schedules. Use to start some maintenance procedures Displays selective information and manually orders (requestion) tests for patient samples, calibration and KK Start and monitors priority STAT samples for analysis from the STAT table; manual order (requestion) samples STAT View and print reagents blank, calibration, KK and patient data, as well as a data package to the laboratory information system (LIS) Alarm Area Displays signal messages generated during the operation of the system. Clear Alarm List Description Choose to stop the alarm. Choose a second time to clear the alarm from the Select screen to display the alarm list. The system can store and display a maximum of 999 AU480 In-Lab Learning Guide Page 17 of the 152 18 menu list This column displays menu software. The menu you choose is highlighted in blue. This column shows a spool of the chosen menu. Menu Regular Calibration CK Options System Service Description Perform a variety of basic operational procedures: set the start conditions, manage Order samples/calibration/KC, view/print results, review the reaction data View history calibration information and perform a screening check View View manage the KK data and information program charts for all tests, including calibration and KK Monitor parameters, and perform maintenance, Review Detailed Journal of Anxiety, and Perform Diagnostic Features Program Online Conditions, List Formats, Comments, Barcode Options, System Settings, and Data Management AU480 In Lab Guide Page 18 of 152 19 Software Menu Path 1 Menu List 2 Menu 3 Substitution 4 Screens 5 Tabs 6 Buttons for Appropriate Function Keys (F1 F8 on Keyboard) AU480 In-Lab Learning Page 19 of the 152 20 Internet Help Select Help button from the main button area to access au480 Chemistry Analyzer Online Help Home Help Online Help Includes PDF version of The User's Guide and Fast Response Guide to PDF version of additional documentation (Addendum) Service Video Directory with video selected service procedures Tips for use Online Help: Available only when the system is not in PDF measurement mode documents can be printed to be sure to enter the range of pages before printing, if only the printing of a specific section or blue text procedure in the PDF document can be selected as a reference to other exit procedures and return to the help box online will take you back to the main menu it does not recall the last page you were on AU480 In the Laboratory Training Guide Page 20 of 152 21 Chapter 3 Daily Running Introduction Daily Launch should be performed daily at AU480 before processing patient samples. The following procedures are required for a daily run: Set the starting conditions Perform a daily maintenance analyzer Check the analyzer to check and recharge the reagents Perform ISE Startup Perform a Calibration Calibration Process (KK) These procedures are presented in this chapter effectively. However, you can determine an order that can be more effective based on your lab policies and processes. For each daily launch procedure, this chapter includes Flowchart information flows. These flowcharts are available as a quick link for daily startup procedures. View the user's guide to warnings, warnings, important notes, and reviews, and step-by-step instructions. For full instructions on daily launch procedures, contact: Help: AU480 Chemistry Analyzer User Guide Chapter 5: Daily Start Practices Use information and flowcharts on the following pages to practice daily start-up procedures and determine effective order based on your AU480 In-Lab Training Guide Page 21 of 152 22 Set start-up conditions, select the start-up team and enter the operator's name. is a data file identified by date and time. Create a new index daily, every shift or as needed. Two options are available when creating a new index: Option 1: Creating a new index from the window of a new index, index, when you turn the analyzer on at the end of the process (switch off the system). This option is only available to labs that have turned off the analyzer at the end of the day Option 2: Create a new index from the Start Condition menu. This option is available for continuously operating laboratories or, if necessary, creating another index on the same day, the test team determines the on-board tests that need to be performed in the index. Up to three different groups can be identified in the system. The test group can be changed without changing the index. Practice Use the stack on the next page to practice creating a new index. To practice creating the index that follows option 1 (incorporating the system from the end process), you must first turn off the analyzer and then turn on the analyzer. Contact Chapter 7 AS necessary tasks Run the final process (System Shutdown) of this guide for instructions on how to perform the final process determine if your lab will have multiple test groups identified. If so, determine when you will need to change the group of tests AU480 In-Lab Training Guide Page 22 of 152 23 Set the conditions for the launch of a Yes system powered by the final process? No Select New Index Option from the new Index Window Select Home Select Group tests. If necessary select the button select the start button of the conditions Select OK to create a new index Select Edit F1 Select new index Set the following conditions, if necessary: Group of Tests Operator Title Start Example No. Select F1 Select OK to create a new index AU480 In-Lab Training Guide Page 23 of 152 24 Daily Maintenance Analyzer should be performed on the safety analysis system. Daily maintenance of the analyzer includes a number of checks and top-up solutions. The maintenance schedule list is available to document the completion of maintenance procedures at AU480. For a copy of the maintenance schedule list, refer to: Help: AU480 Chemistry Analyzer User Guide Chapter 8: Service 8.1 Using a Regular Schedule Schedule Schedule Practice Using flowcharts on the following pages to practice daily maintenance procedures. Procedures are presented effectively in flowchart, but should not be performed in the order listed Determine where to find spare parts in the laboratory for components that require replacement after inspections: syringes, pump roller tubes, mix bars, probes Identify solutions that need to be replenished as part of daily maintenance: DIL (located outside the refrigerator reagent) DET-1 (located in W1) Located in a reagent refrigerator as fixed reagents; Ask your application specialist for appropriate solutions) Based on your lab workflow, what shift will be responsible for day-to-day maintenance? Service? The Laboratory Training Guide Page 24 of 152 25 Daily Analyzer Maintenance AU480 In The Lab Guide Page 25 of 152 26 Daily Maintenance Analyzer, continued AU480 In The Laboratory Training Guide Page 26 of 152 27 This page was deliberately left empty, AU480 In-Lab Training Guide Page 27 of 152 28 Check The Status Analyzer Status Menu displays a color review of the system and temperature of the incubator and refrigerator reagent. The following colors indicate the status of the components: Blue: No yellow bugs: Not a fatal error. The analyzer can be running red. Deadly mistake. The analyzer cannot be run by a STAT desk, DI water tank, washable tank solution, trash can, printer, and LIS communication are also controlled. The ISE module and reagents are controlled when the ISE module is installed. Note: The analyzer status also shows the location during the rack at the module feeder. To describe the color status of the display for each component, refer to: Help: AU480 Chemistry Analyzer User Guide Chapter 7: System Monitoring and Results 7.1 Monitoring Analyzer Menu Practice Flowchart on the next page to view the menu status analyzer. To cause a color change of display for different components, you can: Open the lids of the reagent refrigerator, the ISE module, the STAT table or the rack feeder Remove the ISE reagent from the tray behind the front left door Find the displays of Bath Temp and Coolant Temp. Determine whether your lab requires daily temperature documentation on a separate AU480 In-Lab Training Manual Page 28 of 152 29 Check the status of au480 In-Lab Training Guide Page 29 of 152 30 Check and restock reagents must be performed during the daily launch to determine the number of tests on board and update the reagent status. The volume and condition of reagents can be viewed from tabs in Reagent Management. Main tab: Provides the volume and condition of reagents by sample type. The color of the display for each reagent indicates the following: Orange: Reagent missing, expired, or empty yellow: Reagent volume short (low) Light blue: Necessary reagents installed (currently) Gray: Reagent is not used for the displayed type sample Detailed tab: Provides detailed information for each onboard reagent. Use The Shots, Onboard Remaining, and Expiration columns to identify reagents that need to be replaced by Reagent Check: The analyzer requires reagents to be checked at any time the reagent cover is opened or when selecting the editing function in the Settings menu. When performing a reagent check, the following options are available: Check all positions: Check the remaining volume of reagents at all positions, including positions outside the RI/R2 compartments and the test probes Check these positions: The remaining volume of reagents in these specified items is checked Changed Position Check selected by the operator: Checks the remaining reagent for any reagent ID (barcode) that is new or has been moved from the previous reset reagent check only: the reagent volume check and the barcode is not performed. Choose this option when the reagent cover is open without changing the reagent or the settings screen, but no changes have been made: the reagent check resets any manual calibration or KK orders back to the automatic order requirements (based on the default calibration status and the default KK profile). Practice Using flowchart on the next page to practice loading reagents and perform a reagent check review Detailed information tab to identify additional information that displays for onboard reagents based on your test volume, at what number of shots (tests) do you decide to replace or add a reagent bottle? Complete each reagent check option to determine the differences between them Note: Verified charging positions option will require moving or adding a barcode reagent to see the reagent probe perform a volume check. AU480 In Lab Training Guide Page 30 of 152 31 Check and recharge reagents AU480 In Laboratory Training Guide Page 31 of 152 32 ISE Start Check ISE Reagents ISE uses three reagents: ISE Buffer Solution ISE MID Standard Solution ISE Reference Solution Daily checks ISE reagents for stability and volume; all three reagents have 90-day ISE that the operator should be tracking. The analyzer does not track the ISE reagent on board. It is recommended to record the on-board shelf life on the bottle when loading the ISE reagent System generates an ISE reagent Short alarm when the volume of the reagent is low (5.2 cm above the bottom of the bottle). Approximate number of samples that can be processed for each reagent when the alarm is triggered: Buffer: 240 MID Standard samples: 180 Samples Help: 600 samples When is loaded with ISE reagents: ISE reagents cannot be downloaded and primed in measurement mode. Make sure that there are enough reagents on board before the analysis does NOT mix the old and new reagent Recommended for calibration when loading the new bottle, even if the 24-hour ISE calibration period is not a proper practice Use the stream on the next page to practice downloading the ISE reagent to determine the amount at which your lab will replace the ISE reagent: Based on the daily sample volume, can you wait for the daily sample volume until the alarm is generated? Will you have each shift to check the volume before processing the samples? AU480 In Lab Training Guide Page 32 of 152 33 Load ISE Reagents AU480 In Lab Training Guide Page Of the 152 34 ISE Startup ISE Daily Maintenance ISE Daily Maintenance includes: ISE Cleaning Perform Daily to Clean ISE Sample Pot and Electrode Lines. Pollution or inaccurate results may occur if the clean-up is not For laboratories that will perform the final process (system shutdown) every day, it is recommended to clean immediately before turning off the analyzer. To remove any build-up before ISE is used during the time period the procedure takes about 4 minutes to complete the ISE Calibration Perform once every 24 hours, after specific maintenance procedures, and when replacing ISE reagents If the ISE calibration is performed immediately after the ISE cleaning, perform a general prime before calibrating ISE serum and urine standards have an open stability of the bottle 90 days of calibration of serum only take. Calibration of serum and urine takes about 7 minutes Use the Slope tab to review tilt results in graphic format for consistency calibration Practice Using flowcharts on the following pages to perform ISE Daily Maintenance Procedures Identify, When you perform ISE cleaning and calibration ISE based on laboratory hours of work determine if your lab will be calibrating the serum only, urine only, or both The Review Of The Slope Chart System automatically updates ISE cleaning and ISE calibration procedures when they are completed in ISE screen maintenance. Confirm that the system has the correct date and time after completion of au480 In-Lab Training Guide Page 34 of 152 35 ISE Cleaning AU480 In Lab Guide Page 35 of 152 36 ISE Calibration AU480 In-Lab Training Guide Page 36 of 152 37 pages This deliberately left empty. AU480 In Lab Training Guide Page 37 of 152 38 Calibration Analyzer During Reagent Check, The system automatically orders the reagent blank (RB) and calibration (CAL) for all tests with: Reagent empty or calibration expired Reagent empty or calibration expires soon a new bottle or lot number for reagent empty or calibration failed - your Beckman Coulter application specialist can determine expires soon, which meets your lab workflow. You can always edit an automatic order by adding or deleting tests on the empty reagent and calibration. The rb/CAL Stability Remaining status for the test can be found in the Reagent Management tab: Details. Practice Use the flow symbol on the next page to view the tests automatically requisitioned for calibration, and the gauges required for identification expire the deadline set for your analyzer to determine where to see RB Stability and Stability CAL Remaining time from reagent management: Detailed screen information. The system displays the remaining time in days (D) and hours (H) Use flowchart to practice manual order tests for calibration The Laboratory Training Guide Page 38 of 152 39 Analyzer Calibration AU480 In Laboratory Training Guide Page 39 of 152 40 Process of quality control (KK) quality control analysis is used to confirm the system system The KK must be performed before patient samples are processed, after calibration, after maintenance procedures, and in accordance with laboratory policy. Each lab must set its own control frequency. KK can be processed in the system: Using the default profile of the KK Manual ordering KK tests When the default KK profile is determined in the system, all tests identified in the profile will be automatically ordered when the reagent check is performed. The default profile is usually configured by an application specialist during installation. The default KK profile was automatically ordered only for the first bottle (sequence 1) of each reagent on board the system. If several bottles of the same reagent are in the system, you will need to manually order a KK for additional bottles (individual requisition) if your laboratory policy requires that the KK be processed on additional bottles. Up to 5 bottles of sequence can be downloaded to the reagent analyzer. If the default profile is not defined, the operator must manually order the KK every time it needs to be processed on the analyzer. Note: The following stacks do not apply if your lab uses LIS to generate KK requests and monitor KK results. Practice Use flowcharts on the following pages in practice KK processing: Use a quality control process (KK) Using the default KK Flowchart Profile, if you have a default profile of the KK determined in your system Use manual quality control (KK) flowchart, if you do not have a default profile OF the KK determined based on your test volume, you will need multiple bottles of reagent analyzer? You can identify a few bottles in Seq. Reagent Management column: Details tab Use manual quality control (KK) flowchart. When You Need to Re-run or Order a CK for Specific Tests AU480 In Lab Training Guide Page 40 of 152 41 Process Quality Control (KK) Using the Default KK Profile AU480 In Lab Training Guide Page 41 of 152 42 Manual Order KK Select Home Select Rack Requisition Case Sample Button Select KK Hand-click: Select Start Entry F1 Select test (s) for requisition (blue highlight) or deselect test (s) to remove (no blue highlight) Optional: Select individual F3 requisition for requisition OF THE KK for a specific bottle Select type drop down the list of reization controls for other types of sample Select entry F1 to save the requisition display Select C6, or choose a print to view all the necessary controls. The analyzer will request a KK for all levels for test (s) for each type of sample. If you don't need to run the KK to a certain level, leave the position empty on the rack. Load the controls according to the list in the right racks and place the racks on the power rack Note: the analyzer will generate a KK KK Alarm if it does not see all the levels of the KK displayed in the list; No action is required if you don't need to handle all the levels. Select Start from the main bar error review button in the list of bugs in the launch window and perform any corrective actions, if necessary Select Start from the launch window AU480 In Lab Training Guide Page 42 of 152 43 Chapter 4 Example Processing and Programming Introduction in this chapter you will identify racks and proven sample containers that are available on AU480. The racks and containers you use in your lab are set up by your application specialist and service engineer during installation. It is important to reduce the risk of system errors and to ensure accurate test results with appropriate shelving and proven containers when processing samples on the analyzer. This chapter will also include information about: Sample Data Prefix Processing With Barcodes and LIS Programming Processing and Programming Samples without LIS Programming Order to Add or Re-Run Test on The Sample Programming Analyzer on the AU480 In-Lab Training Guide Page 43 of the 152 44 Examples of Racks System identifies the type of rack from a combination of magnets installed at the bottom of the rack. The color of the rack is for the operator to easily determine the type of rack. The system identifies the type of sample for the rack from the ID barcode tag. The barcode range of the ID rack for sample type is configured in the AU480 software. The following types of samples are available on AU480: Serum, Urine, Other-1, Other-2. Place the samples in the correct rack for sample type. Any proven container can be used to process empty, calibration, KK, or patient samples in the appropriate type of rack. Existing checked containers for AU480 will be reviewed later in this chapter. Blue Rack Use to handle reagent gases Use any proven container to place DI water in position 1 One rack is used for all types of sample yellow rack Use to handle the calibration multiple shelving may be required depending on the number of calibration and types of samples used, the racks can be configured for the ID rack and the position or barcode of Operation Green Rack Use to handle the material OF the KK Several shelving may be required depending on the number of controls and types of controls you may require depending on the number of controls and types of Used Rack Racks can be configured for rack ID and position or barcode operations AU480 In-Lab Training Guide Page 44 of 152 45 Patient Sample Rack Types Barcode Analysis: Bar coded samples can be placed in any position in the rack programmed for the correct type of sample Consecutive Analysis: Samples without barcodes should be placed in numerical their sample number. Don't leave empty spaces between note samples: Barcode analysis is recommended because consistent analysis does not allow for positive identification of the patient. Rack Adapters Rack adapters adapters Hold the smaller tubes (11.5 to 13.5 mm) firmly in the rack position. Larger pipes (13.5 to 16 mm) do not require adapters. White Rack Use for conventional patient samples Use for automatic repetition of samples (repeat is automatically ordered and processed by the analyzer in the same rack) Orange Rack Use for manual repetition of samples (repeat is automatically ordered by the analyzer, but only processed when placed in an orange rack) Red rack Samples that require repetition are identified from the re-start in anticipation list (Menu list but samples placed in the red rack, Not treated with a higher priority can also be used to automatically replicate au480 In-Lab Learning Guide Page 45 of 152 46 Sample Data Example System displays prefix sample data in front of sample number. Prefix sample data can help you determine the following information about the sample processed on the analyzer: If the sample data is for the reagent, calibration, KC, or patient sample if the sample has been processed in a normal (white stand) sample, emergency (red) rack, manual re-start, or on the STAT table If the result of the patient sample is the result of the initial launch or re-launch of the Routine Sample Sample Sample STAT Sample (Priority) Type Normal Start Re-Launch KK CAL RB Serum (No) H Urine U HU Other-1 X X Other-2 Y HY Whole Blood W HW Serum E HE Urine UE HUE Other-1 XE HXE Other-2 ye HYE Serum P HP Urine PH HUP Other-1 XP HXP Other-2 YP HYP : BD 47152 48 AU480 Verified Sample Containers Accommodation Pipe Part Room Nest / Insert Cup Description Part Dead Tom (yl) Example 13x75 mm BD BD x100 mm BD BD x100 mm Cup 2.0 ml Access 2 Cup 1.0 ml Rack The Nested Cup / Insert Cup Description Part Of the Dead Tom 'Dead Room' (yle) Sample W100mg: The analyzer has only one sensor to detect a cup or tube on the STAT table, so only one maximum probe down the blow can be programmed. The maximum impact of the probe down should be programmed for a cup or tube with the lowest lower position. If the primary tubes and tubes with the cups are used on the STAT table, the attached cup should contain enough sample to avoid crashing the probe into the nesting cup. 13x75 mm BD BD Access 2 Cup 1.0 ml STAT Table: Jack Cup (inserted) in the tube 13x75 mm BD BD x75 mm BD Equivalent Cup Equalizer Jack Nest Cup DxC Transfer Tube DxC Cup 2.0 ml AU480 In The Lab Training Guide Page 49 of 152 50 Sample Processing When Processing Samples on the Analyzer: Determine if the samples have sufficient volume for processing in the primary pipes. Transfer any samples with insufficient volume to proven low-volume containers. The use of untested containers can lead to CAUTION sampling errors: a field engineer installs a sample of the descent and alignment probe for optimal sampling during the installation of the system. Do not change the type of containers used on the rack without consulting Beckman Coulter technical support. Remove all barcode analysis covers: Samples can be placed in any position in the rack, but no barcode is required. Barcode labels must be placed at least 7 mm from the bottom of the container Place each sample in the correct rack for: Sample type: In the barcode analysis, if the sample is placed in the wrong rack for the type of sample, the system will generate an alarm and will not handle the size of the sample tube. Confirm, that the tube fits correctly in the rack, placing the tube in the rack with and without an adapter and determine which holds the tube most securely Make sure that the barcode sample is aligned in the center of the open slots in the rack rack with a position 1 rack (stand ID bar code end) in front of the back of the analyzer if your lab is not installed : Do not leave gaps between the racks when loading. The feed rack stops advancing when the space remains between the racks Use the STAT table to process samples with a higher priority System will handle samples downloaded in the STAT table to samples loaded on the rack, regardless of the priority assigned to the sample in the practice of requesting LIS Using flowcharts on the following pages to process samples on racks or STAT table. Based on the lab workflow, system settings are applied to analyze barcodes, how will you manage priority samples? Placing a sample in an emergency (red) rack does not specify the priority of STAT Determine whether you need racks for different types of samples and pipe sizes. How can operators differentiate the racks for the sampling type? Training manual au480 in the laboratory 50 of the 152 51 Processing Samples at AU480 Racks In Laboratory Training Guide Page 51 of 152 52 Sample Processing on STAT Table AU480 In Laboratory Training Guide Page 52 of 152 53 This page is intentionally left blank. AU480 In-Lab Training Guide Page 53 of 152 54 Examples of manual programming can be manually programmed and processed to AU480 when the LIS is down, or if the sample does not have a LIS-generated query. Samples can be manually programmed to be processed on racks or in a STAT table. When the system is configured with barcode racks, manually programmed samples require a barcode. A roll of alternative barcodes is provided with an analyzer during installation for manual programming. You can also have barcodes of downtime in your lab that you can use for manual programming. When the system is configured with racks for sequential analysis, you will need to manually program all samples processed in successive racks, but they do not require a barcode on the sample. Samples processed in successive racks should be placed in a rack and on the analyzer in the order in which they are manually programmed in the system. Note: Barcode analysis is recommended because consistent analysis does not allow for positive identification of the patient. To determine the analysis mode for shelving in your system, use the following path on the software: Menu List - System - System - System State - Analysis Mode - Test Requisition Practice Using flowcharts on the following pages to practice manual programming of samples for processing on racks and STAT table What barcodes will be used in your lab when a sample without a barcode is manually programmed? Regular (white) and emergency (red) racks can be configured separately for barcode or sequential analysis. Will you have a rack setup for consistent analysis? If so, how will you manage the processing of samples on these racks? Note: If automatic repetition is enabled on the analyzer, Routine and Emergency racks are installed to analyze the barcode. AU480 In Lab Training Guide Page 54 of 152 55 Manual Programming for Samples on AU480 Racks In Laboratory Training Guide Page 55 of 152 56 Manual Programming on STAT Table AU480 In Laboratory Training Guide Page 56 of 152 57 This page is intentionally left blank. AU480 In-Lab Training Guide Page 57 of 152 58 Additional Programming Features Rack Requisition Screen Sample provides additional features for manual programming samples on the analyzer: Add or re-run batch tests The system allows manual ordering to add and re-run tests for samples previously processed in the same index. Use the Add On button when: Order must be ordered manually by the analyzer (not from the data management system or LIS) The order will be on samples that have been processed in the current Index Order requires the use of the original sample ID (barcode) from The Launch of the Order sample will be handled using the same type of sample (regular rack, emergency rack, STAT table) as the first launch of the sample If any of these conditions do not apply to the request, then the addition or re-launch can be ordered manually as a new sample. Package programs allow you to order the same tests on a number of samples without having to order each sample individually. Practice Use flowcharts on the following pages to practice ordering to add on/retest or package programming note: Add on/re-run procedures can only be performed on a sample that has been processed in the current index. When will you

need to manually order the addition or retesting on the analyzer? When will you need a package order on the analyzer? Au480 In-Lab Training Guide Page 58 of 152 59 Add and retest at AU480 Racks In Lab Guide Page 59 of 152 60 Note: This procedure applies only to samples that require adding or re-launching a test that will be processed using the same sample ID, rack type, and index as the original sample. The information below is required to order an addition or re-launch. This information can be found on the sample status screen or in the printed report. Sample number (e.g. S. No. 0003) Example of Rod (Ruthina or Emergency) Type of Sample Select Home Select Rack Requisition Sample Button Select sample button Choice Test Choice Requisition Tab Add or Re-Run Test: Select Add to F5 Check the correct image of the sample rack (Routine or Emergency) in which the sample was originally displayed. Select the Switch button if you need to change the type of sample Select sample type from the reset list type Enter the sample number in both example No. Note fields: Enter a number of sample numbers if you want to add or re-run multiple samples for the same test. Select selected tests to re-select the test (s) to add or re-run Select OK Select F4 Select list to view the list of samples requisitioned Extra: Select a sample from the waiting list and select Go to view a specific requisition sample. Tests with an asterisk (yap.) are under consideration Select Close to close pending List of Place Samples with barcodes in the appropriate rack (s) for sample kind (routine or emergency) and sampling type and location rack (s) on the delivery rack unit Select Start from the main bar error review button in the launch window error list and perform any corrective actions, if necessary Start from The Window With Screen Status Sample AU480 In-Lab Training Guide Page 60 of 152 61 Add or Re-Launch Tests on STAT Table AU480 In Lab Training Guide Page 61 of 152 62 Package Order AU480 In Laboratory Training Guide Page 62 of 152 63 Chapter 5 Monitor and and Results Introduction It is important to review the results for empty reagents, calibration and KK before processing samples. Patient samples should be checked for any flags before releasing results. This chapter will cover the following: Review calibration status from the Calibration Monitor Review KK Chart Office Office KK Data Review Patient Results System can be the installation for automatic reagent printing blank, calibration, KK, and patient results. You can also reprint reports if necessary. Au480 In Lab Training Guide Page 63 of 152 64 Print RB/CAL/KK Results Reagent Blank, Calibration and KK Results should be considered for flags. These results can be viewed from printed reports or from a real-time display screen as a sample. The analyzer is usually set to automatically print reagents empty, calibration and KK results when they are completed. These reports can be reprinted from the sample manager when needed. Practice Using flowchart on the next page for printing reagent blank, calibration, and KK results from a sample manager When perhaps you need to reprint the reagent blank, calibration, or KK report? AU480 In Lab Training Guide Page 64 of 152 65 Print RB/CAL/KK Results AU480 In Laboratory Training Guide Page 65 of 152 66 Calibration Monitor use calibration monitor: Overview Re-space status and calibration status for a test review of reagent history and calibration history for a test review of the empty reagent and calibration details for the Status Tab test ensures the color status of the reagent is empty and calibrated for each test by sample type. The color of the display indicates the following for RB and CAL: Orange: Bottles without calibration data, With failed calibration data, or with expired calibration data there are yellow: Bottles with calibration data that expire soon exist Light Blue: No errors (current calibration has passed) White: Status cannot be determined until the reagent test is performed by RB History and Calibration History tabs to ensure the graphics reagent system saves a maximum of 100 data points per sample type of test. Charts can be used to verify the consistency of reagent data and calibration. RB Detail and Calibration Detail tabs provide detailed data for the test you choose. Practice Use the flow symbol on the next page to view the status of the reagent and calibration, history and details for tests from the status of the monitor calibration for the test can also be viewed from the Reagent Management Comment column: Details tab. What's the advantage of using a calibration monitor to view the calibration state? AU480 In Laboratory Training Guide Page 66 of 152 67 Calibration Monitor AU480 In The Laboratory By Learning Page 67 of 152 68 KK Monitor and KK Data Review Using KK Monitor for: Review KK Review of State of The Data Review and Print KK Chart Review KK KK KK KK KK The KK monitor displays the status of checking KK data for the KK levels processed for each test in the current index. Color for each level of KK processed for the test indicates status: Green: Normal data (results in range) yellow: Data outside the range programmed in KK Options Orange: Abnormal data (not included in KK statistics) Using KK Data Review for: Delete KK Data Enter Comments for KC Results If you use an analyzer to create KK statistics you may need to manage THE KC data you may need to manage the KC data if it is handled incorrectly (levels are wrong, incorrect KK is used) so as not to include the data in the statistics calculation. Practice Use flowcharts on the following pages to review and manage the results of the CCC Will you use the analyzer to review and manage the results of the KK, or will it be done with another KK program (on the data management system or LIS)? Au480 In Lab Training Guide Page 68 of 152 152 beckman coulter au480 service manual pdf

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