**AU5800 Daily Startup**

### Set a New Index

1. Select **Home > Start Condition**
2. Select **Edit F1**
3. Select **New Index**
4. Select the **Group of Tests** for processing
5. (Optional) Enter an **Operator Name**
6. Select **Confirm F1**
7. Select **OK** to set the index

### Perform Analyzer Daily Maintenance

1. Inspect syringes for cracks, leaks, or condensation (analyzer and ISE units)
2. Inspect the stability of the upper covers
3. Inspect and clean the probes and mix bars:
   - Confirm probes are not bent or damaged
   - Wipe probes with 70% isopropyl alcohol if contaminants or crystallization observed
   - Confirm mix bars are not bent, scratched, or chipped
   - Wipe mix bars with 70% isopropyl alcohol if contaminants or crystallization observed
4. Prime probes and mix bars to confirm proper operation:
   - Select **Home > Analyzer Maintenance**
   - Place a check in the **Analyzer Maintenance** box
   - Select **Inspect Probes & Mixing Bar** button
   - Select **OK** to confirm
   - Press the green **DIAG** button on the analyzer unit to start the prime:
     - Confirm each probe dispenses a thin straight stream of water and water flows in the wash wells
     - Confirm that the mix bars align correctly in the wash wells during rotation of mix bar components
   - Deselect the **Analyzer Maintenance** box when the priming cycle is complete
5. Replace the DI water in the pre-dilution bottles
6. Replace the sample probe wash solutions (located by the sample probes in positions labeled DET-1 and DET-2)
7. Replace the contamination parameter solutions (located by the reagent probes in positions labeled CLN-1 and CLN-2)
8. Confirm the printer is on and there is enough paper
9. Confirm the handle on the diluted wash solution tank is in the OPEN position

### Inspect the Analyzer Status

1. Select **Home > Analyzer Status**
2. Confirm that system components are within acceptable limits (blue)
3. Investigate any yellow or red conditions

### Set a New Index

1. Select **New Index** option
2. Select the **Group of Tests** for processing
3. Select **OK** to set the index

### ISE Startup (for labs with ISE Unit)

1. Inspect the ISE reagents, and replace if needed:
   - Confirm reagents are within 90-day onboard stability and volume meets the daily requirements for your lab
   - If ISE Buffer is replaced perform a **Buffer Prime**
   - If ISE MID Standard or ISE Reference is replaced perform a **MID/REF Prime**
2. Inspect, clean, and prime the ISE sample probe:
   - Confirm the probe is not bent or damaged
   - Wipe probe with 70% isopropyl alcohol if contaminants or crystallization observed
   - Select **Home > Analyzer Maintenance > ISE Maintenance**
   - Place a check in the **ISE Maintenance** box
   - Select **Replace Sample Probe** button
   - For **Times**, enter 3, and select **OK** to confirm
   - Press the green **DIAG** button on the ISE unit to start the prime
     - Confirm the probe dispenses a thin straight stream of water and water flows in the wash well
   - Deselect the **ISE Maintenance** box when the priming cycle is complete
3. Perform the ISE Clean:
   - Place a Hitachi cup with 1 mL of ISE Cleaning Solution in the **CLEAN** position of the ISE unit
   - Select **Home > Analyzer Maintenance > ISE Maintenance**
   - Select **Cleaning F5** and select **OK** to begin the clean
   - When cleaning is complete, discard the Hitachi cup
4. Perform a Total Prime
   - Select **Home > Analyzer Maintenance > ISE Maintenance**
   - Place a check mark in the **ISE Maintenance** box
   - Select **Total Prime** button
   - Select **OK** to confirm selection
   - Press the green **DIAG** button on the ISE unit to move the ISE sample probe away
   - Press the green **DIAG** button again to start the prime
   - Deselect the **ISE Maintenance** box when the priming is complete

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Note:
If your AU5800 is powered off, press the green **ON** button on the front of the rack feeder unit to turn it on.

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Continue on the reverse side
ISE Startup (for labs with ISE Unit), continued

5. Perform an ISE Calibration
   • Place Hitachi cups filled with approximately 500 µL of the required ISE Serum and/or Urine Standards into the
     S-L, S-H, U-L, and U-H positions of the ISE unit
   • Select Calibration tab from ISE Maintenance
   • Select Serum Start, Urine Start, or Serum/Urine Start
   • Select OK to begin the ISE calibration
   • When the calibration is complete, confirm the results are within the Slope and MID Factor ranges for Cell 1 and Cell 2
   • Remove and discard the Hitachi cups

Replenish Reagents and Perform a Reagent Check
(Note: Can be performed during ISE Clean or ISE Calibration)

1. Select Home > Reagent Management > Details. For each sample type processed in your lab and each analyzer unit:
   - Review the Shots column for tests remaining, the Onboard Remaining column for open bottle expiration, and the
     Expiration column for lot expiration
2. Replace and/or add reagent bottles based on volume and expiration criteria for your lab
   - Lift and remove the reagent refrigerator covers
   - Remove required reagent bottles
   - Place new reagents bottles into available positions and secure with partitions and adapters as needed
   - Place non-bar coded reagents bottles into fixed positions assigned in the Details tab
   - Replace the reagent refrigerator covers
3. Perform a reagent check
   - Select Reagent Check F5
   - Select Check All Positions and select Start
4. View the Main and Details tabs to confirm status of onboard reagents meet the daily requirements for your lab
5. View the ISE tab to confirm the ISE detergent bottles are checked. Perform a reagent check of ISE, if needed

Perform Analyzer Calibration

1. Select Home > Rack Requisition > Calibration
2. Confirm automatic calibration order is correct (RB highlighted in blue, CAL highlighted in yellow). Select the sample type
   from the Type drop down menu to review the order for each sample type processed in your lab
3. Select Display Cup Set F5 to display the required reagent blank, calibrators, racks, and positions. Scroll down to view
   additional racks. Load the reagent blank and calibrators in the blue and yellow racks according to the list
4. Place the racks on the rack input tray with the blue rack first, followed by yellow racks
5. Select Close to close the Display Cup Set dialog
6. Select Start to process the reagent blank and calibrator racks

Perform Quality Control

1. Select Home > Rack Requisition > QC
2. Confirm automatic QC order is correct (test names highlighted in blue). Select the sample type from the Type drop down
   menu to review the order for each sample type processed in your lab
3. Select Display Cup Set F5 to display the required control materials, racks, and positions. Scroll down to view additional
   racks. Load the control materials in the green racks according to the list
4. Place the QC racks on the rack input tray
5. Select Close to close the Display Cup Set dialog
6. Select Start to process the QC racks

Review RB/CAL/QC Results

1. Review the reagent blank, calibration, and QC reports for flags. Take appropriate actions based on flags
2. Review the Calibration Monitor to confirm reagent blank and calibration results meet lab requirements
   (Menu List > Calibration > Calibration Monitor > select Reagent Blank or Calibration column for desired test)
3. Review the QC Monitor to confirm QC results meet lab requirements (Menu List > QC > QC Monitor)