### UniCel DxC 600/800 Twice Weekly Maintenance

<table>
<thead>
<tr>
<th>Page</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Perform the <strong>Clean Flow Cell (Automated)</strong> procedure</td>
</tr>
</tbody>
</table>

### UniCel DxC 600/800 Weekly Maintenance

<table>
<thead>
<tr>
<th>Page</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Perform the <strong>Check Reagent Levels</strong> procedure</td>
</tr>
<tr>
<td>5</td>
<td>Perform the <strong>Replace Cuvette Wiper</strong> procedure</td>
</tr>
<tr>
<td>6</td>
<td>Perform the <strong>Clean Probes (Exterior)</strong> procedure</td>
</tr>
<tr>
<td>7</td>
<td>Perform the <strong>Check Syringe Tightness</strong> procedure</td>
</tr>
<tr>
<td>8</td>
<td>Perform the <strong>Clean ALBm and TPm Cup Modules</strong> procedure (DxC 800 Only)</td>
</tr>
<tr>
<td>9</td>
<td>Perform the <strong>Clean Flow Cell, Cups and CC Probes/Mixers (Automated)</strong> procedure</td>
</tr>
<tr>
<td>10</td>
<td>Perform the <strong>Check CL Calibration Span</strong> procedure</td>
</tr>
<tr>
<td>11</td>
<td><strong>Initial and Date Electronic Scheduled Maintenance Log</strong></td>
</tr>
</tbody>
</table>

*For Training Purposes Only*

These job aids are shortened versions of procedures found in the references below. Information in the job aid is correct as of the date published. Verify you have the correct information.

**References:**
- UniCel DxC Synchron Systems Instructions for Use PN A93719AC (March 2014)
WARNINGS AND PRECAUTIONS

Read all product manuals and consult with Beckman Coulter-trained personnel before attempting to operate the instrument.

Beckman Coulter, Inc. urges 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, protective eyewear, 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 the information in your Instrument Instructions for Use Manual (IFU). Information in the Instructions for Use Manual supersedes information in any other manual.

REVISION STATUS

Rev. G (September 2014)
Based on DxC software version 5.4 and chemistry database version 5.7

TRADEMARKS

Beckman Coulter, the stylized logo, Access, Microtube, Synchron, and UniCel are trademarks of Beckman Coulter, Inc., and are registered with the USPTO. All other trademarks are the property of their respective owners.
Clean Flow Cell (Automated)

Locate cleaning solutions:
- Saline (PN A93901) (Do NOT use buffered blood bank saline)
- Sodium Hypochlorite 5% (PN A32319) (Do NOT use “household” bleach)
- Serum

Select 10 Clean Flow Cell, Cups & CC Probes/Mixers

- Select ISE/MC Rack 1 tab
- Place the cleaning solutions in the rack positions identified on the screen
  Note: Diluted Clenz solution is only needed in position 1 of the rack when selecting to clean the MC Cup(s) as a part of Weekly Maintenance
- Type the rack number in the Rack Number field and press <Enter> on the keyboard
- Place the rack on the autoloader with the barcode facing right
- Select Start from the screen

When the cleaning is complete:
- Select Close to exit the Result window
- Select Close again

Initial and date the Clean Flow Cell procedure in the Weekly tab of the electronic Scheduled Maintenance Log

Select Done

Select Exit F10 to exit the Maintenance mode
Check Reagent Levels

Select Rgts/Cal

Select the **Down Arrow** to review the second page screen

Open the middle door of the DxC

Compare the reagent levels in the bottles (**Wash Conc, No Foam**, and **Auto Gloss**) with the percentages on the screen

Adjust the volume for each reagent, if necessary

Load a new bottle of reagent, if necessary

Close the middle door of the DxC

Initial and date the electronic Scheduled Maintenance Log
Replace Cuvette Wiper

1. Remove the cuvette wash station cover
2. Carefully loosen the two thumbscrews on each side of the cuvette washer
3. Lift off the upper section of the cuvette wash assembly
4. Remove the silicone wiper from probe #4
5. Install the new wiper by sliding it onto the bottom end of the probe until the under surface of the wiper is flush with the end of the probe
6. Replace the cuvette wash assembly and tighten the thumbscrews. Ensure that the wash assembly is seated properly on the mounting pins
7. Verify that all four probes are centered over a cuvette. Ensure that the wiper is square to the cuvette opening
8. Reinstall the cuvette wash station cover
9. Initial and date the electronic Scheduled Maintenance Log
Clean Probes (Exterior)

**CAUTION:** Wear the ESD wrist ground strap when performing this procedure

1. Press the **STOP** button. Wait for System Status to be **Stopped**
2. Remove the cuvette wash station cover, reaction carousel cover, and sample carousel cover
3. Wipe the outside and bottom of any exposed portions of the sample and reagent probes, and all of the cuvette wash station probes. Use a separate pad moistened with 70% isopropyl alcohol for each probe
4. Reinstall covers
5. Select **OK** to clear the pop-up message
6. Select **Instr Cmd**
7. Select **1 Home**
8. Initial and date the electronic Scheduled Maintenance Log
Check Syringe Tightness

CAUTION: Wear the ESD wrist ground strap when performing this procedure

Select **Utils**

Select **2 Maintenance**

Select **7 Syringe Maintenance**

Grasp the syringe at the plunger guide and check for syringe to T-valve tightness by hand tightening

Grasp the syringe button and check for syringe button to adapter tightness by hand tightening

Repeat for remaining syringes

Select **Cancel**

Select **Exit F10** to exit the Maintenance mode

Initial and date the electronic Scheduled Maintenance Log
Clean ALBm and TPm Cup Modules (DxC 800 Only)

Prepare cleaning solutions:
- 10% Cleaning Solution (1 part Wash Concentrate II and 9 parts DI water)
- 1N HCl (1 part 6N HCl and 5 parts DI water)

Select Utils
Select 2 Maintenance
Select 4 Cup Maintenance
Select Albumin and Total Protein
Select Rinse
Note: Do not close the Result pop-up window that appears at this time

When rinsing is complete, transfer 1 mL of:
- 10% Cleaning Solution to the ALBm cup
- 1N HCl to the TPm cup

Let the cleaning solutions sit in the cups for 10 minutes
Select Close
Select Rinse
After rinsing is complete, select Close
Select Drain
After draining is complete, select OK
After priming is complete, select Close
Select Cancel
Select Exit F10 to exit the Maintenance mode

Initial and date the electronic Scheduled Maintenance Log
Clean Flow Cell, Cups, and CC Probes/Mixers (Automated)

Locate cleaning solutions:
- Clenz (PN 664099)
- Saline (PN A93901) (Do NOT use buffered blood bank saline)
- Sodium Hypochlorite 5% (PN A32319) (Do NOT use “household” bleach)
- Serum
- CCWA cartridge

Prepare diluted Clenz solution. Add 4 drops of Clenz to an empty 2 mL sample cup. Fill to 2 mL line with saline and mix

Load CCWA cartridge
Note: Make sure there are at least 25 tests available or 65 tests available if also performing the as needed cuvette cleaning

Select UTILS

Select 2 Maintenance

Select 10: Clean Flow Cell, Cups & CC Probes/Mixers

- Select ISE/MC Rack 1 tab
- Place the cleaning solutions in the rack positions identified on the screen
- Type the rack number in the Rack Number field and press <Enter> on the keyboard
- Place the rack on the autoloader with the barcode facing right

Select the following buttons for:
- Each MC cup
- CC Probes/Mixers

Note: You may need to select the CC Cuvettes button if you run the HbA1c assay*; this is optional if you do not run HbA1c

- Select CC Rack 2 tab
- Place the cleaning solutions in the rack positions identified on the screen
- Type the rack number in the Rack Number field and press <Enter> on the keyboard
- Place the rack on the autoloader with the barcode facing right
- Select Start from the screen

When the cleaning is complete:
- Select Close to exit the Result window
- Select Close again

Initial and date the Clean Flow Cell, Clean Cups, and CC Probe Cleaning procedures in the Weekly tab of the electronic Scheduled Maintenance Log

Select Done

Select Exit F10 to exit the Maintenance mode

*Refer to the Limitations section of the appropriate Chemistry Information Sheet (CIS) for details
Check CL Calibration Span

Printed CL calibration report available?
No
Select Rgts/Cal
Select CL
Select Options F6
Select Print cal report from the drop down menu
Select Current Cal Report

Yes

Is the CL Span >2100?
No

Follow the IFU procedure:
- Clean Chloride Electrode Tip and Flow Cell Port
- Replace the Chloride Electrode Tip

Yes

Initial and date the electronic Scheduled Maintenance Log
Initial and Date Electronic Maintenance Log

1. Select **Utils**
2. Select **2 Maintenance**
3. Select **Log F2**
4. Select the desired frequency tab
5. Select individual procedure check boxes in the Initial & Date column or Select the **Select All** button
6. Select **Initial & Date**
7. Enter your initials
8. Select **OK**
9. View superscripts for each procedure performed to determine further action required
10. Select **Done**