Title: Procedure for ACS-180 Monthly Maintenance

Purpose: To aid the laboratorian in performing the monthly maintenance procedure for the ACS-180.

Procedure:
From Bayer’s ACS-180 Maintenance and Troubleshooting Manual:

   a. Disconnect the ACS:180 waste bottle from the waste tubing and empty its contents into an empty OSEH bucket with an orange biohazard label on it.
   b. Prepare a 5% bleach solution by adding 25 mL of bleach to 475 mL of ddI water and add to the ACS:180 waste bottle.
   c. Place the cap on the bottle and carefully shake for several minutes.
   d. Allow the bottle to sit for 15 minutes.
   e. Empty the bottle and fill it with 2.0 L of 5% bleach solution (100 mL of bleach + 1900 mL of ddI water).
   f. Replace the bottle on the ACS and reconnect the waste tubing.

2. Clean the Extended Operations Module (EOM) waste bottle.
   a. Empty the EOM waste bottle by decanting the waste into an empty OSEH bucket with an orange biohazard label on it. The EOM waste bottle has an orange biohazard symbol on the front side. Add approximately 10% clorox or a germicidal agent into the OSEH bucket, cover with a lid and let set for a minimum of 2 hours to “neutralize” the biohazardous waste.
   b. To clean the ACS:180 waste tubing go to Main Menu, press F6 Maintenance, press F6 Extended Operation Module Functions, press F2 Purge Waste and then press Y.
   c. After the purge step is complete, remove the ACS:180 waste bottle and rinse it several times with water.
   d. Wipe the ACS:180 waste bottle seal, sensors and waste tubing with a Kimwipe soaked in ddI water.
   e. Reinstall the ACS:180 waste and water bottles and press Main Menu.
3. Inspect the Peristaltic Pump Tubing by removing the ACS water bottle and check the peristaltic tubing for cracks, constrictions, leaks or any sign of deterioration.

4. Inspect the ACS-180 Air Filter located at the lower left corner of the rear panel of the ACS.
   a. Remove the filter cover.
   b. Inspect the filter for dust and dirt and, if necessary, clean by rinsing with ddI water, then dry and place the filter back on the ACS.

5. Record that the monthly cleaning has been completed by starting from the ACS:180 main menu and press **F6 Maintenance**, press **F3 Maintenance Schedule** and enter your initial at items completed.