CORE ENVIRONMENTAL QUALITY CONTROL

Environmental testing is performed monthly on the GeneXpert, BioFire, & ePlex instruments.

1. **Follow the GeneXpert, Biofire, & ePlex testing procedures after preparation of samples.**
   1. When prompted for the Sample ID, click Manual Entry and use MONTHLY ENV as the ID.
   2. When testing is complete, fill out the monthly environmental form. It is located in the QC binder.
   3. If results show contamination, environmental controls must be repeated after the area is thoroughly decontaminated. Document the failure and resolution in the QC Failure binder.
2. **REPEATING TEST:**
   1. Any non-negative result must be repeated.
   2. Clean all areas with bleach, water, and alcohol per protocol.
   3. Repeat swipe test and run on instrument.
   4. Place repeat report in the result binder.
   5. Fill out the monthly environmental form.
   6. If repeat is positive, report to Senior Medical Technologist or Manager.
3. **ENVIRONMENTAL SAMPLE PREPARATION**
   1. GeneXpert
      1. SARS-CoV-2/Flu/RSV
         1. Collect 1 mL of sterile DI water.
         2. Using the swab provided in a UTM collection kit, dip the swab into sterile DI water then swipe the swab over each of the following surfaces:
            1. Molecular Hood (Vortex/Hood Surface)
            2. GeneXpert PC (Keyboard/Mouse/Scanner)
            3. GeneXpert Benchtop
         3. Insert the swab into the UTM and break it off.
         4. Follow the GeneXpert SARS-CoV-2/Flu/RSV testing procedure.
      2. Xpert Xpress Strep A (GASPC)
         1. Collect 1 mL of sterile DI water
         2. Using the swab provided in the eSwab collection device, dip the swab into sterile DI water then swipe the swab over each of the following surfaces:
            1. Molecular Hood (Vortex/Hood Surface)
            2. GeneXpert PC (Keyboard/Mouse/Scanner)
            3. GeneXpert Benchtop
         3. Insert the swab into the eSwab collection device and break it off.
         4. Follow the Xpert Xpress Strep A testing procedure.
      3. Xpert GBS LB
         1. Collect 1 mL of sterile DI water
         2. Dip a sterile polyester swab into the sterile DI water then swipe the swab over each of the following surfaces:
            1. Molecular Hood
            2. GeneXpert PC (Keyboard/Mouse/Scanner)
            3. GeneXpert Benchtop
         3. Insert the swab into LIM broth and briefly vortex.
         4. Dip a new swab into the LIM broth. Insert the swab into the Xpert GBS LB cartridge and break off.
         5. Follow the Xpert GBS LB testing procedure.
      4. C DIFF
         1. Collect 1 mL of sterile DI water
         2. Dip a sterile swab into the sterile DI water then swipe the swab over each of the following surfaces:
            1. Molecular Hood (Vortex/Hood Surface)
            2. GeneXpert PC (Keyboard/Mouse/Scanner)
            3. GeneXpert Benchtop
         3. Insert the swab into the reagent buffer provided with the kit and break off.
         4. Follow the GeneXpert CDIFF testing procedure.
      5. EV
         1. Collect 1 mL of DI water in a conical tube.
         2. Dip a sterile swab into the DI water, then swipe the swab over each of the following surfaces:
            1. Molecular Hood (Vortex/Hood Surface)
            2. Molecular Cart (Pipette/Cart)
            3. GeneXpert PC (Keyboard/Mouse/Scanner)
            4. GeneXpert Benchtop
         3. Insert the inoculated swab back into the conical tube and break off.
         4. Briefly vortex the conical tube.
         5. Follow the GeneXpert EV testing procedure.
      6. MRSA/SA
         1. Collect 1 mL of sterile DI water.
         2. Dip a sterile swab into the sterile DI water, then swipe the swab over each of the following surfaces
            1. Molecular Hood (Vortex/Hood Surface)
            2. GeneXpert PC (Keyboard/Mouse/Scanner)
            3. GeneXpert Benchtop
         3. Insert the swab back into the reagent buffer provided with the kit and break off.
         4. Follow the GeneXpert MRSA/SA testing procedure.
      7. MTB
         1. Collect 1 mL of DI water in a conical tube.
         2. Dip a sterile swab into the DI water, then swipe the swab over each of the following surfaces:
            1. Molecular Hood (Vortex/Hood Surface)
            2. GeneXpert PC (Keyboard/Mouse/Scanner)
            3. GeneXpert Benchtop
         3. Place the swab back into the conical tube and break off.
         4. Briefly vortex the environmental specimen.
         5. Follow the GeneXpert MTB testing procedure.
   2. BioFire
      1. GI Panel
         1. Collect 1 mL of sterile DI water.
         2. Dip the swab into the sterile DI water, then swipe the swab over each of the following surfaces:
            1. Molecular Hood
            2. Biofire Pouch Loading Station
            3. Biofire PC (Keyboard/Mouse/Scanner)
         3. Insert the swab into the Cary-Blair media and break off.
         4. Briefly vortex the environmental specimen tube.
         5. Follow the BioFire GI Panel testing procedure.
      2. ME Panel
         1. Collect 1 mL of DI water in a conical tube.
         2. Dip a sterile swab into the DI water, then swipe the swab over each of the following surfaces:
            1. Molecular Hood
            2. Biofire Pouch Loading Station
            3. Biofire PC (Keyboard/Mouse/Scanner)
         3. Insert the swab back into the conical tube and break off.
         4. Briefly vortex the conical tube.
         5. Follow the BioFire ME Panel testing procedure.
   3. ePlex
      1. RP2
         1. Collect 1 mL of sterile DI water
         2. Using the swab provided in a UTM collection kit, dip the swab into sterile DI water then swipe the swab over each of the following surfaces:
            1. Molecular Hood (Vortex/Hood Surface)
            2. ePlex Benchtop
         3. Insert the swab into the UTM and break off.
         4. Follow the ePlex RP2 testing procedure.