

## **Instructions for Performing External Control Testing**

- Obtain the quality control (QC) material. Check the expiration date and check that the material
  has been stored and handled according to the current manufacturer's requirements and
  instructions.
- 2. Record the following on the QC log: initials of the person performing the test, test date, test name, test lot number, QC test material lot number, and QC test expiration date.
- 3. Test the QC material following the current manufacturer's instructions and record the results on the QC Log.
- 4. If the results are acceptable according to the current manufacturer's instructions, then the QC passes, and the patient's results can be reported.
- 5. If controls do not give the expected results, then the patient's results should not be reported until the problem is identified and corrected.
  - Check to see if the instructions in the current manufacturer's instructions were followed correctly.
  - ✓ Look for possible sources of error such as outdated reagents or test devices.
  - Check to see if reagents were stored correctly.
  - ✓ Make sure controls or reagents were not cross-contaminated by accidentally switching caps on kit or control vials.
  - ✓ Follow the troubleshooting steps in the current manufacturer's instructions or site specific procedure.
  - ✓ For additional assistance, contact the manufacturer, technical representative, or the person who directs or supervises the testing.
- 6. Once a problem has been identified and corrected, repeat QC testing. If the QC results are acceptable, re-test patient samples, and report the results.

## **Quality Control Log – Instructions**

## **Quality Control Log – Qualitative Test**

- 1. Record the Facility Information on the top of the form.
- 2. Enter the initials of the person performing the QC, date of QC, Test Name, Test lot number and expiration date.
- 3. Record the QC material lot number, expiration date, positive and negative control results.
- 4. If the results are not acceptable, QC fails. Troubleshoot (check expiration dates, storage condition etc.), retest the QC and document the corrective action taken.
- 5. The QC results should be reviewed by another person for verification. The reviewer will initial and date the form.

## Quality Control Log – Quantitative Test

- 1. Record the Facility Information on the top of the form.
- 2. Enter the initials of the person performing the QC, date of QC, Test Name, Test lot number and expiration date.
- 3. Record the QC material lot number, expiration date, positive and negative control results.
- 4. If the results are not acceptable, QC fails. Troubleshoot (check expiration dates, storage condition etc.), retest the QC and document the corrective action taken.
- 5. The QC results should be reviewed by another person for verification. The reviewer will initial and date the form.

Note: Qualitative tests are interpreted as positive, negative; reactive, non-reactive; or invalid. Quantitative tests give a number result that corresponds to the amount of substance being measured, are reported in specific measurement units, and have an expected range.

This job aid is a component of the free, on-demand CDC training course "Ready? Set? Test!" Find the course at <a href="https://www.cdc.gov/labtraining">https://www.cdc.gov/labtraining</a>.