

Performance checks will be done on the Agilent 2100 Bioanalyzers and the 3130-5 Genetic Analyzer following yearly maintenance/calibrations and repairs. A performance check will be done on the 9700 thermal cyclers following repairs.

**9700 thermal cyclers:** Amplify a negative and positive control for either HV1 or HV2 at 32 cycles. Sequence both samples and ensure the correct results are obtained (no interpretable sequence for the negative control and the correct profile for the positive control). Maintain the results in the appropriate equipment QA/QC binder.

**Agilent:** Quantify a negative and positive control for either HV1 or HV2. Ensure that all the expected results are obtained. Maintain the results in the appropriate equipment QA/QC binder.

**3130-5:** Sequence a negative and positive control for HV1 or HV2 and ensure the correct results are obtained (no interpretable sequence for the negative control and the correct profile for the positive control). Maintain the results in the appropriate 3130 binder.

**EZ1 Advanced XL:** The Qiagen EZ1 Advanced XL Extraction Instrument is serviced annually by factory service contract.

The service department is contacted for repairs and the annual service. A performance check is completed after the instrument has been serviced and before its use for casework. For documentation of a performance check use DNA-QR-277. Records are maintained in the EZ1 Performance Check/Maintenance/Service Notebook.

If any of the above instruments or equipment have any issues with performance checks or maintenance, notification to the TL and Assistant Director or Deputy Director will be made.