

DNA: Technical Review

Technical review of DNA case files

General requirements for the process of performing a technical review of case files can be found in [*AQR: Technical Review of Case Records*](#) in the *Quality Manual*. In addition, the technical review of DNA case files will include review of the following elements:

- Sample Analysis
 - complete description of evidence and packaging
 - chain of custody properly documented
 - significant observations documented
 - quantitation OK
 - amplification worksheet(s) OK
 - Data Interpretation
 - expected results obtained for size standard(s) and allelic ladder(s)
 - positive control(s)/QC stain(s) correct
 - negative control(s)/reagent blank(s) contain no peaks above detection threshold
 - all peaks addressed in all samples
 - data reviewed by a second qualified analyst
 - all profiles compared within the batch
 - homozygous genotypes meet stochastic threshold requirements
 - all probative samples run through STRmix and appropriate propositions tested
 - STRmix parameters and diagnostics evaluated
 - STRmix results agree with qualitative expectations
 - statistical calculations documented and correct
 - all CODIS eligible profiles verified and uploaded
 - proper records included in case file and electronic data DVD
 - typing Results worksheet(s) accurately reflect DNA results and interpretations
 - Report
 - agency concerns and/or questions addressed
 - report accounts for all evidence examined and disposition of evidence
 - all significant examinations in notes included in the report
 - correct statistical results included
 - inclusion, exclusion, and inconclusive statements consistent with results
 - table reports all DNA profiles suitable for comparison to reference profiles
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