

FORENSIC BIOLOGY PROTOCOLS FOR FORENSIC STR ANALYSIS

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Artifacts listed below should be unlabeled using the comment “artifact” (code “a”)
For additional detail on artifacts, refer to the STR Results Interpretation Manuals for each kit or relevant appendices.

Artifacts
pull-ups or pull-down of peaks in any color caused by a very high peak of another color in the same basepair range of a sample
shoulder peaks approx. 1-4 bp bigger or smaller than main peak
split peak due to "N" bands
split peak due to matrix over-subtraction
stutter ¹
peak classified as +/-2 bp artifact ¹
kit-specific artifact ¹
labels placed on elevated baselines
spikes or peaks present in all colors in one sample
dye artifact occurring at a constant scan position
peak classified as primer front; low molecular weight artifacts appearing at the very beginning of a dye color

1. Refer to the appendix for each relevant kit for more information. Promega can also verify if artifacts have been observed within other laboratories. Contact QA for assistance in this verification.