FORENSIC BIOLOGY PROTOCOLS FOR FORENSIC STR ANALYSIS

	Editing Codes	
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09/28/2018	Nuclear DNA Technical Leader	1 OF 1

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 PowerPlex

Fusion or Identifiler and YFiler

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 in non-mixtures ¹		
peak classified as +/-2 bp artifact²		
non-specific artifact		
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		
initial peak labels of range removed (use code "→")		

- 1. Stutter includes: Peaks in non-mixtures in a +/- 1 STR repeat positions for Identifiler®, Yfiler™ or peaks in a +/- 1 STR repeat position in a Fusion® exemplar sample or positive control, or in a +/- 2 STR repeat position in a single source Fusion sample. The height of the possible stutter peak must be compared to the height of the parent allelic peak to determine if it is reasonable to consider it as stutter.
- 2. This edit is applicable for artifact peaks in the -2 bp position in Fusion® commonly seen in some locations such as D1S1656, D13S317, D18S51, D21S11, D7S820, D5S818, D12S391, and D19S433. For YfilerTM, this edit is applicable for artifacts in the +/-2 bp position at DYS19.