

**LABORATORY VALIDATION OF APPLIED BIOSYSTEMS AMPF/STR PROFILER PLUS™ AND
COFILER™ SHORT TANDEM REPEAT (STR) TYPING KITS**

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Proper validation of new laboratory tests is required for the development and application of laboratory protocols. The DNA Advisory Board (DAB) lists essential requirements for laboratory validation of new methods under Section 8. The American Society of Crime Laboratory Directors (ASCLD) and the National Forensic Science Training Center (NSFTC) echo these concepts in their accreditation criteria.

Validation experiments for these systems were designed to meet developmental issues and develop internal grounding data to develop interpretation guidelines and working protocols. Population, environmental insults, matrix, species, stutter, concordance, adjudicated casework, sensitivity, mixtures and balance studies were performed during the validation process. These kits were found to be robust and reliable for characterizing biological samples routinely encountered in the forensic laboratory.