

VALIDATION STUDIES OF PERKIN ELMER'S AMPF/STR™ PROFILER PLUS™ AND COFILER™ KITS USING THE ABI™ 310 CE

Kandala J., Hamilton M.A., Karr M.B., Becherer D.

St. Louis Metropolitan Police Department, St. Louis, MO



Forensic DNA typing using Perkin Elmer's AmpF/STR™ Profiler Plus™ and Cofiler™ kits for simultaneous amplification of the CODIS 13 core loci plus amelogenin was investigated. Separation and detection were accomplished using the Applied Biosystems 310 Capillary Electrophoresis Genetic Analyzer. A St. Louis local database was generated using blood samples from 111 Caucasians and 134 African Americans. A mixture study was performed which resulted in expected allele combinations and peak heights. Ranges of stutter ratios and heterozygous peak height ratios were determined from the database samples for subsequent use in casework mixture interpretation.

