

Mentype[®] Pentaplex ESS

For amplification of the new miniSTR loci recommended by ENFSI and EDNAP



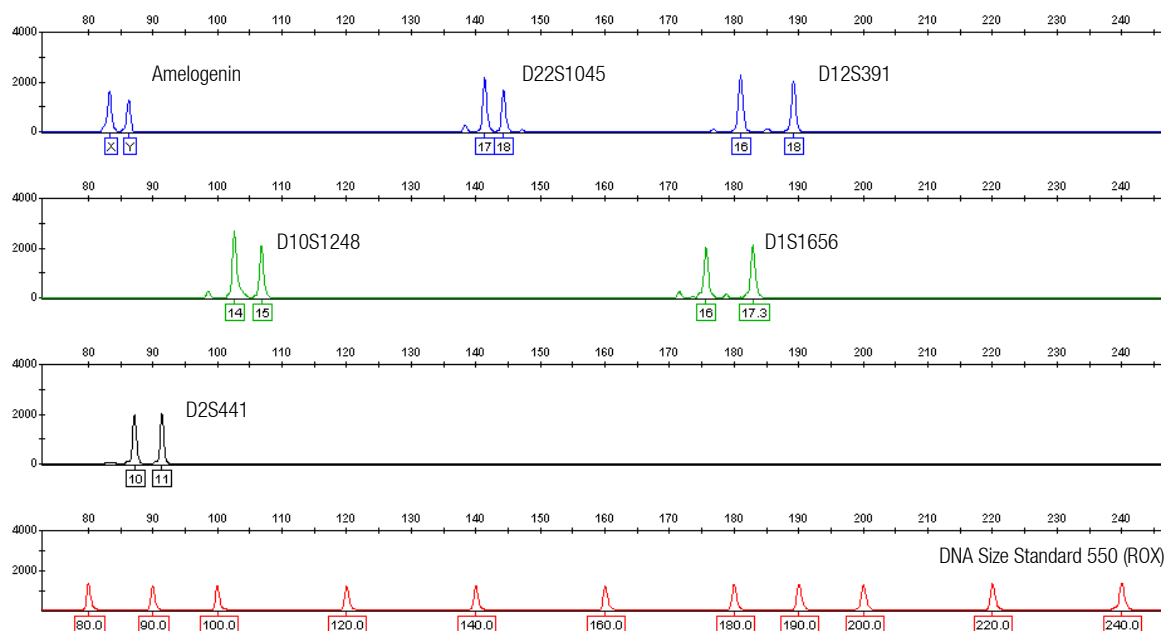
Mentype[®] **Pentaplex ESS** was developed for multiplex amplification of the five new European miniSTR loci recommended by ENFSI and EDNAP (Gill et al., FSI, 2006, Nov 10; 163(1-2):155-7), as well as Amelogenin. These low molecular weight markers have substantial benefit to detect degraded samples so that within the kit the maximal amplicon size was restricted to 225 bp. In combination with existing STR loci in use, the new markers improve the discrimination power which in turn is important to improve the power of national DNA databases. With Mentype[®] **Pentaplex ESS**, definite interpretation of the STR profiles of blood samples, swabs, and forensic stains is fast and reliable. The following markers are amplified simultaneously:

Bio type[®]



6-FAM:	Amelogenin	D22S1045	D12S391
HEX:	D10S1248	D1S1656	
NED:	D2S441		

Reliable profiling of five miniSTR loci and Amelogenin



Electropherogram of PCR products using the Mentype[®] **Pentaplex ESS** analysed on an ABI PRISM[®] 3130 Genetic Analyzer with GeneMapper[™] ID software. Use of 200 pg control DNA XY13.

Mentype[®] Pentaplex ESS

Components and amounts for 100 reactions

Nuclease-free water	3.0 mL
Reaction mix A	500 µL
Primer mix	250 µL
Control DNA XY13	10 µL
DNA Size Standard (ROX)	50 µL
Allelic ladder	10 µL
Biotype [®] template files (Genotyper [®] /GeneMapper [™] ID) CD-ROM	

Technical specification

Detection limit: 100 pg genomic DNA

Optimal amount of template DNA per reaction: 0.1-1.0 ng

Volume per PCR-reaction: 25 µL

Fluorescence labels: 6-FAM, HEX, NED, ROX

Use with

ABI PRISM[®] 310 Genetic Analyzer

ABI PRISM[®] 3100-Avant/3100 Genetic Analyzer

ABI PRISM[®] 3130/3130xl Genetic Analyzer

ABI PRISM[®] 3730 DNA Analyzer

Ordering Information

Product	Content	Cat. No.
Mentype [®] Pentaplex ESS	25 reactions	41-06210-0025
Mentype [®] Pentaplex ESS	100 reactions	41-06210-0100
Mentype [®] Pentaplex ESS	400 reactions	41-06210-0400



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