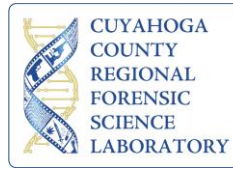




Cuyahoga County
Medical Examiner's Office



Information for Customers Requiring DNA Analysis

The Forensic DNA department of Cuyahoga County Regional Forensic Science Laboratory performs autosomal and Y-STR DNA analysis. DNA STR analysis involves extraction, quantification, amplification, detection, data analysis and statistical interpretation. The following methods are used for DNA STR analysis by the DNA Department:

Extraction:

- Organic extraction
- Maxwell Extraction using Maxwell FSC DNA IQ Casework Kit/DNA IQ Casework Pro Kit

Quantification:

- Real Time PCR using PowerQuant DNA Quantification kit.
- Instrument: QuantStudio 5 Real Time PCR Instrument

Amplification:

- Autosomal STR Amplification kit: PowerPlex Fusion
- Y- STR Amplification kit: PowerPlex Y23
- Instrument: GeneAmp PCR System 9700/AB ProFlex PCR System

Detection:

- AB 3500 Genetic Analyzers

Data Analysis:

- GeneMapperID-X

Statistical Interpretation:

- Autosomal STR: TrueAllele Technology
- Y-STR: YHRD database