

What is DNA Fingerprinting?

DNA fingerprinting refers to the use of techniques based on polymerase chain reaction (PCR) to reveal the specific DNA profile for a particular organism which is as unique as a fingerprint. The technique is used to distinguish between individuals of the same species using only samples of their DNA and finds its application in forensics, agriculture, paleontology, and various fields of biology and medical diagnostics.

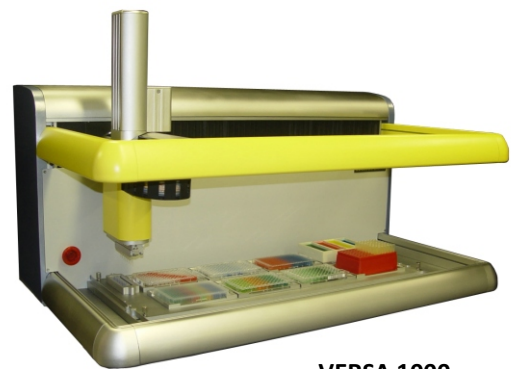
The discriminatory power of DNA testing is often limited to the availability of high quality DNA fingerprint analysis, based on high-throughput processing and bioinformatics tools. In order to achieve such high standards, more and more laboratories globally are adopting to robotic processing and bioinformatics systems for forensic data generation.

Procedure

The procedure for DNA fingerprinting begins by extracting DNA from the cells and tissue samples, performing PCR based DNA profiling, and is completed by profile analysis.



VERSA Mini



VERSA 1000

The VERSA Mini Workstations have been developed for use as a high throughput system for the rapid extraction and subsequent amplification of genomic DNA for fingerprinting application. When used with relevant biochemical kits, the system provides a novel extraction system that eliminates the need for any type of purification, organic extraction, centrifugation, heating, filtration, or alcohol precipitation.

The procedure of genomic DNA extraction and PCR reaction set-up is completely automated on the VERSA workstations. The systems have been configured to provide high levels of reliability and standardization to help eliminate repetitive reaction setup liquid handling tasks and variations caused due to handling errors, particularly when processing a large number of reactions.

Application Sectors:

Forensics, agriculture, veterinary and environmental sciences, microbiology and medical diagnostics.

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