



DNA LABS
INTERNATIONAL
EXPERIENCE • TECHNOLOGY • RESULTS

SOLVE MORE CASES | BY USING DNA
EARLY IN THE INVESTIGATION PROCESS



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Who is DNA Labs International

DNA Labs International is a privately held ISO 17025 accredited DNA testing laboratory.

What Makes Us Unique

Our Lab Director is one of a few ABC board certified fellows in the field of Forensic Molecular Biology. We demonstrate our commitment to quality by assuring that every test is reviewed by team members who hold certification from the American Board of Criminalistics (ABC).

DNA Labs International was the first private laboratory to qualify for the FDLE DNA Pilot Project.

About Us

DNA Labs International was founded in 2004 by a Board Certified Fellow in Molecular Biology with over two decades of experience in Forensic Serology and DNA Analysis in State Crime Labs. Our founder is now approaching 30 years in the field, and has witnessed and practiced the incredible developments in technology; has, first hand, helped the judicial system in making our streets a safer place through sample analysis and witness testimony; and who most of all has and continues to believe in the remarkable power of DNA – a feeling shared by our entire staff.

The lab started out in a small location with the highest standards for professionalism, accuracy, reliability and security for evidence and sample storage, and now continues with these efforts at a new and larger location. We feel that our tremendous growth in less than 4 years, symbolizes the growth of the use of DNA analysis.

To provide our worldwide clients and partners with exceptional quality service, we use the latest technology – Polymerase Chain Reaction (PCR), Short Tandem Repeats (STR) and real-time PCR – to identify and test DNA and analyze the results.

DNA Labs International is accredited by Forensic Quality Services - International (FQS-I), the country's longest established provider of ISO accreditation to Forensic Sciences testing laboratories in the US. The FQS-I inspects U.S. laboratories for adherence to standards set by the International Organization for Standardization (ISO) and the DNA Advisory Board (established by the Director of the FBI).

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State of the Art Technology

MiniFiler™, AB 3130 Genetic Analyzer,
GeneMapper® Software, Quantifiler®
Human DNA Quantification Kit, Quantifiler®
Y Human Male DNA Quantification Kit,
AmpFLSTR® Identifier® PCR Amplification
Kit, AmpFLSTR® Profiler Plus® PCR
Amplification Kit, AmpFLSTR COfiler®
PCR Amplification Kit, PowerPlex®
16 System

Memberships

FSA (Florida Sheriff's Association), FSCIA (Florida Sex
Crimes Investigators Association), FAPI (Florida Association
of Private Investigators)

Scientist Memberships

AAFS (American Academy of Forensic Sciences), AFDA
(Association of Forensic DNA Analysts and Administrators),
ISFG (International Society for Forensic Genetics), SAFS
(Southern Association of Forensic Scientists)

Community Involvement

KidFinders Network, Deerfield Beach Chamber of Commerce,
Florida Atlantic University Career Advisory Council,
Workforce Alliance, National Academy Foundation,
Participation in Local School Programs, Adopt-A-Street,
Deerfield Beach Recycling Program

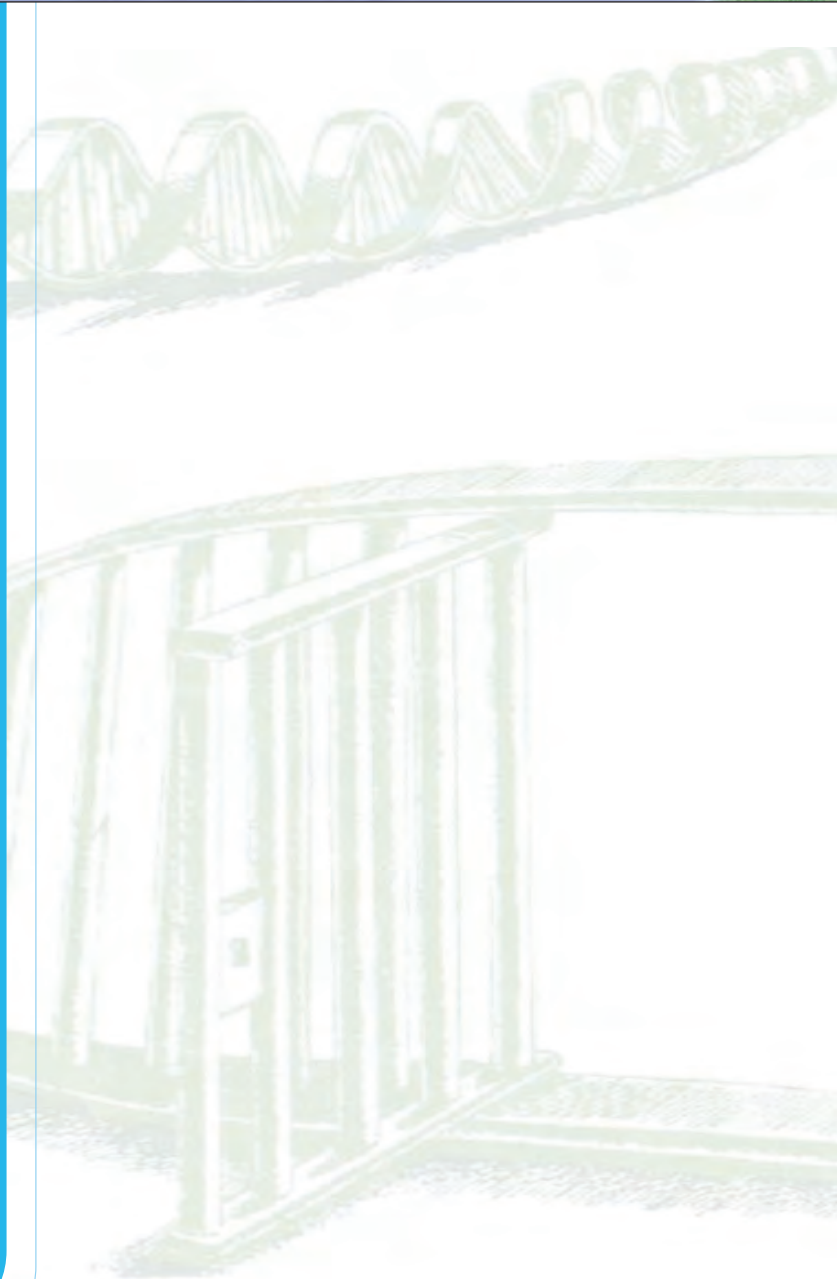
ISO 17025 Accreditation

DNA Labs International complies with the requirements
of ISO/IEC 17025:2005 and Forensic Requirements for
Accreditation (FRA 1 and FRA 2).

FDLE DNA Pilot Project

With heavy volumes of incoming DNA/Biology requests,
the Florida Department of Law Enforcement (FDLE), in
order to continue providing the best possible service to
local law enforcement, has created a program that gives
law enforcement agencies the option to submit evidence
(**at their own expense**) directly to pre-authorized private
laboratories for analysis and have the DNA profiles generated
from their analysis entered into state and national databases
by FDLE.

In the past, only profiles generated by state laboratories
qualified to be entered into the state and national databases.



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SERVICES



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Forensics

- Screening - Our analysts screen evidence found at a crime scene for testable DNA.
- DNA Casework Technical Review - All cases are independently reviewed by a second qualified DNA analyst to ensure top quality results.
- DNA Identity Analysis - Civil Cases - **DNA Labs International** provides analysis of DNA or untested biological fluids and preparation of evidence for civil case depositions, hearings and trials.
- Expert Witness Testimony - We are court-qualified experts in the field of DNA in state, federal and international courts of law.
- Equipment Training - **DNA Labs International** provides training for the Applied Biosystems (AB) Real-time PCR; 3100 and 3130 Genetic Analyzer.
- Kits and Instrumentation Validation - Pre-prepared validation kits customized for individual labs meeting SWGDAM, we can provide detailed Standard Operating Procedures (SOP) plus detailed validation write-up summaries, safety procedure manual, quality assurance manuals and maintenance guidelines. All documentation meets lab accreditation standards.

Paternity Testing

We conduct genetic testing for parentage, siblingship, grandparent/aunt/uncle relationships and twin zygosity. These test results are used in areas such as the determination of familial relationships, immigration and adoption.

Bodily Fluid Identification

The process of identification by DNA profiling is based on the testing of DNA molecules in bodily tissues and bodily fluids such as blood, saliva, and semen. Sufficient quantities of DNA for profiling can be extracted from minute traces of human biological material.

Y-Chromosome STR Testing

Y-STRs are Short Tandem Repeats found on the male-specific Y Chromosome. The coding genes, mostly found on the short arm of the Y Chromosome, are vital to male sex determination, spermatogenesis and other male related functions. Y-STRs are commonly used to examine sexual assault evidence.

MiniFiler™

MiniFiler™ is the world's first commercially available miniSTR kit, the AmpFLSTR® MiniFiler™ PCR Amplification Kit increases the ability to obtain DNA results from compromised samples that previously would have yielded limited or no genetic data. This means cold cases can come off the shelf for re-analysis and new, challenging samples have a better chance of delivering interpretable results.



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FACTS



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- 30 Years Experience in Forensic Serology and DNA Analysis
- Forensic and Paternity DNA Testing
- Expert Witness Testimony
- State of the Art Technology
- Accredited by Forensic Quality Services - International (FQS-I), the country's longest established provider of ISO accreditation to Forensic Sciences testing laboratories in the US
- Qualified to participate in FDLE's (Florida Department of Law Enforcement) DNA Pilot Project
- Board Certified Forensic DNA Fellows
- Tests are reviewed by team members who hold certification from the American Board of Criminalistics (ABC)
- Support both domestic and international clients and partners
- Clients and partners include Sheriff's Offices, Police Departments, District Attorneys, Prosecutors, Criminal Investigation Divisions, Homicide Units, Sex Crime Units, Cold Case Squads, Burglary Units, Property Crime Units and CSI Units
- Established in June of 2004
- Number of Employees: 17

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TTAACCTTAAAGTTTCCCAAAGGGAAACC
TTCGGAACCCTTGGACCCCTTAGGG
CCTTGATTGGACCCATT



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Frequently Asked QUESTIONS

How does DNA Labs International Differ from Many Other Labs?

We have validated the most sensitive methods of DNA technology available to date. These include the MiniFiler™ PCR Amplification Kit, sold by Applied Biosystems. This state-of-the-art technology allows DNA to be obtained from fired cartridge cases and degraded samples such as aged bones, eliminating the need for more expensive tests such as mitochondrial DNA, which can cost over \$2000.00 a sample.

We have also validated tests for Y-DNA. These allow us to test samples where we want to obtain a male profile, but the dominant amount of DNA is female. With a nuclear DNA test, it would be very difficult to obtain male DNA in these types of samples. An example of this type of sample would be a bloody female hand with male DNA under the fingernails. The Y-STR method would not detect the female's DNA since only males have the Y-chromosome.

What is the importance of having Board Certified Fellows in Molecular Biology on staff to testify?

At **DNA Labs International** we demonstrate our commitment to quality by assuring that every test is reviewed by team members who hold certification from the American Board of Criminalistics (ABC).

The purpose of the ABC is to establish professional levels of knowledge, skills and abilities; define a mechanism for achieving these levels; recognize those who have demonstrated attainment of these levels; promote growth within the profession.

The Certification is a voluntary process of peer review by which a practitioner is recognized as having attained the professional qualifications necessary to practice in one or more disciplines of criminalistics – in our case Molecular Biology.

American Board of Criminalistics: <http://www.criminalistics.com/>

How often do you testify and how much weight does your testimony carry in the cases you work on?

We testify 1-2 times a month on average. We are usually last to testify since the DNA report generally makes the case for the prosecution. With that said, there is great weight put on our testimony.

With so much attention having been placed on the importance of DNA evidence, juries have come to expect it as part of a case. We therefore also testify in cases where evidence does not yield any DNA, to assure members of the jury that the police have done everything possible to obtain samples to help their case.

What are the requirements to qualify for the FDLE DNA Pilot Project?

To be selected as one of the laboratories to participate in the FDLE Pilot Project, the laboratory must be accredited by a national forensic laboratory accrediting organization, and must meet quality assurance standards outlined by FDLE and documented in the Forensic DNA Outsourcing Quality Assurance Standards.

What does it mean to have 30 years of experience in the field?

It is important to remember how relatively recent the science of DNA and its application in human identification is. Scientists saw the powerful tool DNA testing was for identification and determination of biological relationships, with its introduction in the late 1970s and 1980s.

So being in the field for 30 years essentially means that we have seen and applied the amazing changes in technology that have occurred in the field. We know and understand how it got started and how it got to where it is today. Our scientists are considered pioneers and leaders in the field.

Before DNA tests, the science community used other biological tools to identify people and determine relationships. These techniques, which included blood typing, serological testing, and HLA testing, were useful for other uses (such as matching blood and tissue donors with recipients and reducing the rejection rate for transplant patients), but they were not effective for identification and determining relationships.

DNA Testing Timeline:

1920s.....Blood Typing
1930s.....Serological Testing
1970s.....HLA Testing
1980s.....DNA Testing Using RFLP Technique
1990s.....DNA Testing Using PCR Technology
1999.....Y-STR Technology
2007.....Release of First Commercial Mini-STR Kit: MiniFiler™

Source: <http://www.dnacenter.com/science-technology/dna->

What is the importance of using advanced Technology?

DNA Labs International invests in the very latest methods for DNA Analysis. As the technology advances and is applied it continues to raise the bar for accuracy, speed and reliability. We are able to provide results within 2-4 weeks.

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