

# In the Fight for Justice You Need a Partner You Can Depend On

**Maximizing DNA Recovery from Challenging Samples.** Signature Science, LLC's novel methods and technologies are developed and validated at our Center for Advanced Genomics. Our methods for maximizing DNA recovery in both yield and quality from forensic samples subjected to challenging conditions have generated CODIS-eligible DNA profiles from spent shell casings, and high-density SNP profiles from DNA inputs 1000 times lower than industry standards. Our FGG workflows are optimized for degraded samples from a range of sample types including blood, bone, buccal swabs, hair, teeth, and semen. Signature Science analysts target forensically relevant markers for ancestry, identity, phenotype, and kinship estimation.



SNP Profiles for FGG  
From Low-Inputs

CODIS-Eligible Profiles  
from Shell Casings

Probabilistic  
Genotyping

Automated Male  
Screening

Stop at Quant and  
Batch Pricing Options

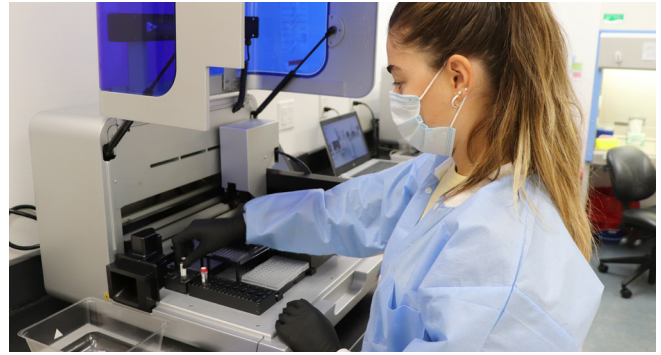
**Backlog Reduction Support.** Recognizing the impact of untested sexual assault kits across our country, Signature Science is dedicated to supporting the criminal justice system's efforts to address the backlog. Our Forensic DNA Laboratory has optimized workflow processes to deliver efficient and comprehensive analyses, scalable to meet the expansion needs of government agencies. Using advanced techniques for DNA recovery, automation, mixture deconvolution, and data management, we offer the most probative

screening and DNA analysis strategies, resulting in timely generation of CODIS-searchable profiles.

**Training and Validation Services.** Our mission is to help solve every case, and we can help arm DNA analysts and case investigators with the knowledge to get it done. Our topical, practical training courses and validation services are tailored to the needs of individual laboratories, departments, and agencies and can be held at our Austin and Charlottesville locations, or onsite at your agency.

signature  
science<sup>®</sup> LLC

[www.sigsciforensics.com](http://www.sigsciforensics.com)



To meet our clients' critical objectives, Signature Science delivers uncompromised, high-quality results, on-time, every time.

#### **Forensic Services:**

- DNA Casework
- FGG Methods for Degraded DNA Testing
- FRISC® for Recovering DNA from Spent Shell Casings
- Serological Testing
- Sexual Assault Kit Backlog Reduction
- Probabilistic Genotyping
- Expert Witness / Consultation Training

#### **Customer Focus:**

- Direct Access to DNA Analysts
- Technical Expertise
- Proven On-Time Track Record
- Efficiency for Trial Preparation and Testimony
- High Success Rate for Challenging Samples when DNA is Present

#### **Instruments/Methodologies:**

- AB 7500 Real-Time PCR
- AB 3500 xL Genetic Analyzer
- Investigator 24plex QS, GlobalFiler™, and Yfiler™ Plus Amplification
- Male Screening / Stop-at-Quant Using Investigator Quantiplex™ Pro
- GeneMapper™ ID-X Software
- STRmix™ Probabilistic Genotyping Software
- STACS®CW LIMS
- ForenSeq Kintelligence using MiSeq FGx™ for FGG
- Global Screening Array using iScan for FGG

#### **Credentials/Standards:**

- ISO/IEC 17025:2017
- FBI QAS: July 2020
- Accredited by the Texas Forensic Science Commission
- All Analysts Hold TFSC Licenses
- Licensed by the State of Maryland

**Have questions? Need a quote?**

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