

# FBI Rapid DNA Guidelines

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# Rapid DNA Testing Overview

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- Instrument the size of a large microwave that can generate a DNA profile in about 2 hours
  - Booking station application (2022 Louisiana)
    - Buccal swab tested from arrestee at booking
    - Profile is uploaded and searched against profiles in state and national databases
  - Evidence processing by “partner agency” and searched in state and national databases (2025)
    - Draft Quality Assurance Standards (QAS) were released for public review June of 2024

# Rapid DNA Testing by Partner Agency

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- Includes testing by a law enforcement agency in a fixed location (police station)
- Includes testing by a law enforcement agency in a mobile facility (at crime scene)
- Each site must be included in the laboratory's Scope of Accreditation
- End result – the DNA profiles generated by law enforcement can be uploaded and searched in state and national DNA databases



# Crime Laboratory

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- Must add to Scope of Accreditation
- Must create a Laboratory Rapid DNA Administrator
  - Responsible for administration and security of the Rapid DNA Program
- Requires validation testing, development of procedures, development of training programs for both laboratory staff and partner agency
- Requires participation in proficiency testing, conducting data review, and issuing reports



# Partner Agency (Law Enforcement)

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- Must establish a Forensic Rapid DNA Lead Operator
- Responsible for routine maintenance and quality control, and must ensure compliance with procedures and laboratory policies
- Must maintain documentation and an evidence control program that ensures integrity of the evidence
- Agency will need to sign MOU with laboratory



# Next Steps

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- New chips for the instruments will be released after the updated QAS are finalized
- Select DFS staff will need instrument training
- Validation testing will begin to determine which samples/DNA profiles are suitable for searching and to identify limitations



# Virginia

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Rapid DNA instruments are in place in 2 law enforcement agencies: Virginia State Police and Fairfax Police

They each have a different instrument type (ANDE and Thermo Fisher)

Both agencies have had a number of Rapid DNA success stories including body identifications