



MixtureAce™

MixtureAce™ data analysis software was designed specifically for the practical needs of forensic DNA analysts.

Unlike many sequencing analysis applications, MixtureAce™ presents sequence-based STR mixture data within a familiar forensic interpretation framework.

Key Capabilities

CE-Style Visualization

Sequence-derived STR profiles displayed within a familiar electropherogram-style environment.

Sequence-Aware Interpretation

Identification of isoalleles and sequence variation not visible in traditional CE workflows.

Artifact Classification

Visualization and classification of stutter and sequencing artifacts.

Mixture Interpretation Support

Designed specifically to assist evaluation of complex forensic DNA mixtures.

Flexible Bioinformatic Trimming

Support for multiple trim configurations and database-aware analytical workflows.

STRmix® Compatibility

Support for downstream probabilistic genotyping workflows.

SID Label Standardization

Hash-based sequence identifiers adopted within the forensic MPS community.



Finally...

Making Forensic MPS Operational

Education · Validation
Implementation · Interpretation

Recent advances in forensic MPS chemistry, interpretation workflows, and implementation strategies are finally creating a practical pathway toward operational sequence-based STR analysis.



NicheVision
Forensics, LLC

*Helping forensic laboratories
bridge the gap between
sequencing capability and
operational workflow.*



NicheVision
Forensics, LLC

Thinking about MPS?

Start here.

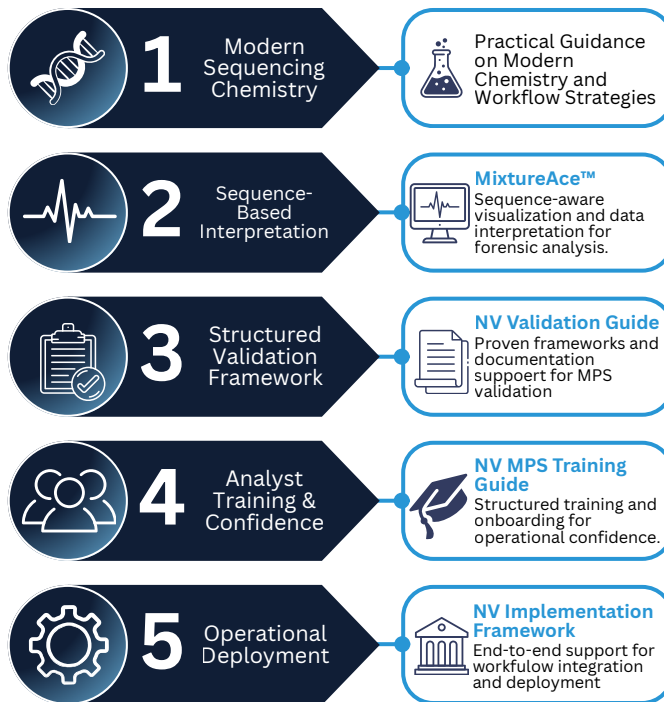
Operational MPS Requires More Than Instrumentation Alone.

NicheVision provides the expertise, tools, and guidance to help laboratories successfully operationalize sequence-based STR analysis.

Who should read this?

- ✓ **Crime Laboratory Directors**
Oversee strategic planning, resource allocation, and operational readiness.
- ✓ **Technical Leaders**
Guide technology adoption, validation planning, and workflow integration.
- ✓ **Validation Teams**
Design and execute robust studies that meet accreditation standards.
- ✓ **Forensic DNA Analysts**
Apply and interpret complex data with confidence and consistency.

The Pathway to Operational MPS



MixtureAce™
Specifically Built for
Sequence-Based Forensic
DNA Mixture Analysis

- ✓ CE-style forensic visualization
- ✓ Sequence-aware interpretation
- ✓ Artifact classification
- ✓ Isoallele differentiation
- ✓ STRmix™ compatible workflows
- ✓ Designed for complex mixtures

The Four Greatest Barriers to Operational MPS



- 1. Sequence-Based Interpretation**
Isoalleles, artifacts, and expanded data complexity make mixture analysis significantly more challenging

NV Solution: MixtureAce™
Sequence-aware visualization and data interpretation designed specifically for forensic analysts.



- 2. Evolution of Forensic Chemistry**
Chemistry options continue to evolve. Choosing the right approach impacts balance, sensitivity, and workflow efficiency.

NV Solution:
Experienced guidance on modern chemistry and workflow strategies



- 3. Analyst Adoption & Training**
MPS introduces new concepts include read depth, coverage, saturation, and artifact complexity.

NV Solution:
Structured onboarding, operational training, and analyst transition support



- 4. Validation & Workflow Complexity**
Successful MPS deployment requires validated workflows, procedures, interpretation guidelines, and competency assessment.

NV Solution:
Structured validation frameworks and implementation support

Request the Complimentary Executive Guide:

The Four Greatest Barriers to Operational MPS



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