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**STANDARDS**  
RESOURCES & TRAINING

NIST Cooperative Agreement ▾

## Standards Checklists

Checklists provide a tool to allow a forensic science service provider to evaluate the level of standard implementation and/or audit conformance to a standard. Each checklist, provided in Excel, uses a standardized format that also allows flexibility when used. Checklists are in continuous production with more coming soon for standards currently on the [OSAC Registry](#) and for standards recently posted to the OSAC Registry.

## Interested in Receiving Updates on Standards Checklists?

Subscribing to Standard Checklist Updates will ensure that you have access to the most current version of checklists and receive updates on new checklists as they become available

[RECEIVE STANDARD CHECKLIST UPDATES](#) 

## Checklist Toolbox

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### Instructions for Use of Checklists

Basic information on use of the checklist is included in select *column headers* as a *comment*. Beyond this, use the link below for comprehensive instructions.

[DOWNLOAD INSTRUCTIONS](#) 

You may also watch the instructional video below:



35:57

## Anthropology

- › **ANSI/ASB STD 089, Best Practice Recommendation for Facial Approximation in Forensic Anthropology**
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## **Biology/DNA**

- › **ANSI/ASB STD 018, Standard for Validation of Probabilistic Genotyping Systems**
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- › **ANSI/ASB STD 020, Standard for Validation Studies of DNA Mixtures, and Development and Verification of a Laboratory's Mixture Interpretation Protocol**
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- › **ANSI/ASB STD 022, Standard for Forensic DNA Analysis Training Programs**
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- › **ANSI/ASB STD 023, Standard for Training in Forensic DNA Isolation and Purification Methods**
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- › **ANSI/ASB 038, Standard for Internal Validation of Forensic DNA Analysis Methods**
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- › **ANSI/ASB STD 040, Standard for Forensic DNA Interpretation and Comparison Protocols**
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- › **ANSI/ASB STD 077, Standard for the Developmental and Internal Validation of Forensic Serological Methods**
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- › **ANSI/ASB STD 110, Standards for Training in Forensic Serological Methods**
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- › **ANSI/ASB Standard 115, Standard for Training in Forensic Short Tandem Repeat Typing Methods Using Amplification, DNA Separation, and Allele Detection**
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- › **ANSI/ASB STD 116, Standard for Training in Forensic DNA Quantification Methods**
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- › **ANSI/ASB STD 130, Standard for Training in Forensic DNA Amplification Methods for Subsequent Capillary Electrophoresis Sequencing**
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- › **ANSI/ASB STD 131, Standard for Training in Forensic DNA Sequencing using Capillary Electrophoresis**
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- › **ANSI/ASB STD 140, Standard for Training in Forensic Human Mitochondrial DNA Analysis, Interpretation, Comparison, Statistical Evaluation, and Reporting**
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## Bloodstain Pattern Analysis

- › **ANSI/ASB STD 032, Standards for a Bloodstain Pattern Analyst's Training Program**
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- › **OSAC Proposed Standard | OSAC 2022-S-0030, Standard Methodology for Bloodstain Pattern Analysis**
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## Crime Scene Investigation

- › **OSAC Proposed Standard | OSAC 2021-N-0015, Guiding Principles for Scene Investigation and Reconstruction**
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- › **OSAC Proposed Standard | OSAC 2021-N-0016, Standard for Initial Response at Scenes by Law Enforcement**
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- › **OSAC Proposed Standard | OSAC 2021-N-0019, Standard Practice for the Documentation and Processing of Shooting Scenes**
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- › **OSAC Proposed Standard | OSAC 2022-N-0025, Standard for Scene Response: Initial Response by Scene Investigators**
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- › **OSAC Proposed Standard | OSAC 2022-N-0035, Standard for On-Scene Collection and Preservation of Document Evidence**
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## Digital Evidence

- › **ANSI/ASTM E3017-19, Standard Practice for Examining Magnetic Card Readers**
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- › **ASTM E3150-18, Standard Guide for Forensic Audio Lab Setup and Maintenance**
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- › **SWGDE 18-Q-001-1.0, Minimum Requirements for Testing Tools used in Digital and Multimedia Forensics**
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- › **SWGDE 22-F-002, Best Practices for Chromebook Acquisition and Analysis**
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## Document Examination

- › **ANSI/ASB Standard 011, Scope of Expertise in Forensic Document Examination**
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## Dogs and Sensors

- › **ANSI/ASB STD 085, Standard for Detection Canine Selection, Kenneling and Healthcare**
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- › **ANSI/ASB STD 088, General Guidelines for Training, Certification, and Documentation of Canine Detection Disciplines**
- 
- › **ANSI/ASB STD 092, Standard for Training and Certification of Canine Detection of Explosives**
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## Facial Identification

- › **ASTM E3115-17, Standard Guide for Capturing Facial Images for Use with Facial Recognition Systems**
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- › **ASTM E3148-18, Standard Guide for Postmortem Facial Image Capture**
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- › **ASTM E3149-18, Standard Guide for Facial Image Comparison Feature List for Morphological Analysis**
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- › **OSAC Proposed Standard | OSAC 2022-S-0001, Standard Guide for Image Comparison Opinions**
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## Fire Debris & Explosives

- › **ANSI/ASTM E1388-17, Standard Practice for Sampling of Headspace Vapors from Fire Debris Samples**
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- › **ANSI/ASTM E1412-19, Standard Practice for Separation of Ignitable Liquid Residues from Fire Debris Samples by Passive Headspace Concentration with Active Charcoal**
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- › **ANSI/ASTM E1413-19, Standard Practice for Separation of Ignitable Liquid Residues from Fire Debris Samples by Dynamic Headspace Concentration onto an Adsorbent Tube**
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- › **ANSI/ASTM E2451-21, Standard Practice for Preserving Ignitable Liquids and Ignitable Liquid Residue Extracts from Fire Debris Samples**
- 
- › **ANSI/ASTM E3189-19, Standard Practice for Separation of Ignitable Liquid Residues from Fire Debris Samples by Static Headspace Concentration onto an Adsorbent Tube**
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- › **ASTM E3245-20e1, Standard Guide for Systemic Approach to the Extraction, Analysis and Classification of Ignitable Liquids and Ignitable Liquid Residues in Fire Debris Samples**
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- › **ANSI/ASTM E3253-21, Practice for Establishing an Examination Scheme for Intact Explosives**
- 
- › **ANSI/ASTM E3329-21, Practice for Establishing an Examination Scheme for Explosive Residues**
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## Firearms & Toolmarks

- › **ANSI/ASB 060, Guidelines for Barrel and Overall Length Measurements of Firearms**
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- > **ANSI/ASB STD 061, Firearms and Toolmarks 3D Measurement Systems and Measurement Quality Control**

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- > **ANSI/ASB STD 062, Standard for Topography Comparison Software for Toolmark Analysis**

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- > **ANSI/ASB STD 063, Implementation of 3D Technologies in Forensic Firearm and Toolmark Comparison Laboratories**

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- > **ANSI/ASB BPR 068, Safe Handling of Firearms and Ammunition**

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- > **ANSI/ASB STD 093, Standard Test Method for the Examination and Testing of Firearms**

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## Footwear & Tire

- > **ANSI/ASB BPR 021, Best Practices for the Preparation of Test Impressions from Footwear and Tires**

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- > **ANSI/ASB BPR 049, Best Practice Recommendation for Lifting of Footwear and Tire Impressions**

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- > **Footwear & Tire ANSI/ASB BPR 052, Best Practice Recommendation for the Detection and Collection of Footwear and Tire Impression Evidence**

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- > **ANSI/ASB Best Practice Recommendation 126, Best Practice Recommendation for Casting Footwear and Tire Impression Evidence at the Crime Scene**

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## Friction Ridge

- > **ASTM E3235-21, Standard Practice for Latent Print Evidence Images Resolution**

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- > **OSAC Proposed Standard | OSAC 2022-S-0012, Standard for Proficiency Testing in**

## Friction Ridge Examination

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- > **OSAC Proposed Standard | OSAC 2021-N-0020, Best Practice Recommendations for Limited Examinations**
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- > **OSAC Proposed Standard | OSAC 2022-N-0033, Standard for Processing Evidence for the Detection of Friction Ridge Impressions**
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## Gunshot Residue Analysis

- > **ANSI/ASTM E1588-20, Standard Practice for Gunshot Residue Analysis by Scanning Electron Microscopy/Energy Dispersive X-Ray Spectrometry**
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- > **ASTM E3309-21, Standard Guide for Reporting of Forensic Primer Gunshot Residue (pGSR) Analysis by Scanning Electron Microscopy/Energy Dispersive X-Ray Spectrometry (SEM/EDS)**
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## Interdisciplinary

- > **ASTM E2917-19a Standard Practice for Forensic Science Practitioner Training, Continuing Education, and Professional Development Programs**
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- > **ASTM E3255-21, Standard Practice for Quality Assurance of Forensic Science Service Providers Performing Chemical Analysis**
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# Medicolegal Death Investigation

- **ANSI/ASB BPR 007, Postmortem Impression Submission Strategy for Comprehensive Searches of Essential Automated Fingerprint Identification System Databases**

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- **ANSI/ASB BPR 008, Mass Fatality Scene Processing: Best Practice Recommendations for the Medicolegal Authority**

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- **ANSI/ASB STD 009, Examination of Human Remains by Forensic Pathologists in the Disaster Victim Identification Context**

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- **ANSI/ASB BPR 010, Forensic Anthropology in Disaster Victim Identification: Best Practice Recommendations for the Medicolegal Authority**

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- **ANSI/ASB BPR 094, Postmortem Impression Recovery: Guidance and Best Practices for Disaster Victim Identification**

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- **ANSI/ASB BRP 108, Forensic Odontology in Disaster Victim Identification: Best Practice Recommendations for the Medicolegal Authority**

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- **ANSI/ASB BPR 125, Organizational and Foundational Standard for Medicolegal Death Investigation**

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# Seized Drugs

- **ASTM E1968-19, Standard Practice for Microcrystal Testing in Forensic Analysis for Cocaine**

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- **ASTM E1969-19, Standard Practice for Microcrystal Testing in Forensic Analysis for Methamphetamine and Amphetamine**

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- **ASTM E2125-19, Standard Practice for Microcrystal Testing in Forensic Analysis for Phencyclidine and its Analogues**

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- **ASTM E2329-17, Standard Practice for the Identification of Seized Drugs**

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- **ASTM E2548-16, Standard Guide for Sampling Seized Drugs for Qualitative and Quantitative Analysis**

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- **ASTM E2882-19, Standard Guide for Analysis of Clandestine Drug Laboratory Evidence**

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# Toxicology

- > **ANSI/ASB STD 017, Standard Practices for Measurement Traceability in Forensic Toxicology**

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- > **ANSI/ASB STD 036, Standard Practices for Method Validation in Forensic Toxicology**

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- > **ANSI/ASB BPR 037, Guidelines for Opinions and Testimony in Forensic Toxicology, First Edition, 2019**

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- > **ANSI/ASB STD 053, Standard for Report Content in Forensic Toxicology, First Edition, 2020**

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- > **ANSI/ASB STD 054, Standard for a Quality Control Program in Forensic Toxicology Laboratories**

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- > **ANSI/ASB STD 119, Standard for the Analytical Scope and Sensitivity of Forensic Toxicological Testing of Blood in Medicolegal Death Investigations**

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- > **ANSI/ASB STD 120, Standard for the Analytical Scope and Sensitivity of Forensic Toxicological Testing of Blood in Impaired Driving Investigations**

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- > **ANSI/ASB STD 121, Standard for the Analytical Scope and Sensitivity of Forensic Toxicological Testing of Urine in Drug-Facilitated Crime Investigations**

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- > **ANSI/ASB STD 152, Standard for Minimum Content Requirements of Forensic Toxicology Procedures**

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# Trace Evidence

- > **ANSI/ASTM E1610-18, Standard Guide for Forensic Paint Analysis and Comparison**

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- > **ANSI/ASTM E1967-19, Standard Test Method for the Automated Determination of Refractive Index of Glass Samples Using the Oil Immersion Method and a Phase Contrast Microscope**

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- > **ANSI/ASTM E2330-19, Standard Test Method for Determination of Concentrations of Elements in Glass Samples Using Inductively Coupled Plasma Mass Spectrometry (ICP-MS) for Forensic Comparisons**

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- > **ANSI/ASTM E2808-21a, Standard Guide for Microspectrophotometry in Forensic Paint Analysis**

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- > **ASTM E2809-22 Standard Guide for Using Scanning Electron Microscopy/Energy Dispersive X-Ray Spectroscopy**

**(SEM/EDS) in Forensic Polymer Examinations**

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- **ANSI/ASTM E2926-17, Standard Test Method for Forensic Comparison of Glass Using Micro X-ray Fluorescence Spectrometry**

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- **ANSI/ASTM E2927-16e1, Standard Test Method for Determination of Trace Elements in Soda-Lime Glass Samples Using Laser Ablation Inductively Coupled Plasma Mass Spectrometry for Forensic Comparisons;**

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- **ANSI/ASTM E2937-18, Standard Guide for Using Infrared Spectroscopy in Forensic Paint Examinations**

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- **ANSI/ASTM E3085-17, Standard Guide for Fourier Transform Infrared Spectroscopy in Forensic Tape Examinations**

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- **ANSI/ASTM E3233-20, Standard Practice for a Forensic Tape Analysis Training Program**

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- **ANSI/ASTM E3234-20, Standard Practice for a Forensic Paint Analysis Training Program**

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- **ANSI/ASTM E3260-21, Standard Guide for Forensic Examination and Comparison of Pressure Sensitive Tapes**

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- **ANSI/ASTM E3272-21, Standard Guide for the Collection of Soils and Other Geological Evidence for Criminal Forensic Applications**

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- **ASTM E3294-22, Standard Guide for Forensic Analysis of Geological Materials by Powder X-Ray Diffraction**

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- **ASTM E3296-22 Standard Guide for Using Pyrolysis Gas Chromatography and Pyrolysis Gas Chromatography-Mass Spectrometry in Forensic Polymer Examinations**

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- **ANSI/ASTM E3316-22, Standard Guide for Forensic Examination of Hair by Microscopy**

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## **Video/Imaging Technology & Analysis**

- **OSAC Proposed Standard | OSAC 2021-S-0013, Standard Guide for Post Mortem Examination Photography**

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- **OSAC Proposed Standard | OSAC 2021-S-0027, Standard Guide for Laboratory Photography**

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- **OSAC Proposed Standard | OSAC 2021-S-0037, Standard Guide for Forensic Photogrammetry**

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- **OSAC Proposed Standard | OSAC 2023-N-0001, Standard Practice for Training in the Areas of Video Analysis, Image Analysis, and Photography**

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- > **OSAC Proposed Standard | OSAC 2022-S-0001, Standard Guide for Image Comparison Opinions**
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## Wildlife Forensics

- > **ANSI/ASB Standard 019, Wildlife Forensics General Standards**
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- > **ANSI/ASB Standard 028, Wildlife Forensics Morphology Standards**
- 
- > **ANSI/ASB Standard 029, Report Writing in Wildlife Forensics: Morphology and Genetics**
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- > **ANSI/ASB Standard 047, Wildlife Forensics Validation Standard - Validating New Primers for Sequencing**
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### Send Feedback on Checklists

#### Name of Checklist

Which checklist are you providing feedback for?

#### Your Feedback

Please provide your checklist feedback in a clear and concise manner.

The AAFS appreciates all feedback, and we would like to connect with you about your feedback if possible. However, you may submit your feedback anonymously if so desired. Please indicate below.

Your First Name

Your Last Name

Name not required.

Your Email Address

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