

FORENSIC BIOLOGY CODIS MANUAL

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1.0 CODIS Terms and Abbreviations

9 NYCRR Part 6192

The policy which provides for the establishment and operation of the DNA Identification Index in New York State.

Accredited laboratory

A DNA laboratory that has received formal recognition that it meets or exceeds a list of standards, including the FBI Director's Quality Assurance Standards, to perform specific tests by a nonprofit professional association of persons actively involved in forensic science that is nationally recognized within the forensic science community in accordance with the provisions of the Federal DNA Identification Act (42 U.S.C.§14132) or subsequent laws.

Administrative removal

The deletion of a DNA record upon verification of the fact that the DNA record is not eligible for inclusion in SDIS and/or NDIS.

Allele

In classical genetics, one of the alternate forms of the gene at a particular locus. In DNA analysis, the term "alleles" is commonly extended to include DNA fragments of variable length and/or sequence which may have no known transcriptional product but are detected in a polymorphic system.

Arrestee

The known sample from a person who has been arrested and in accordance with the law of the applicable jurisdiction is required to provide a DNA sample for analysis and entry into a state DNA database. The term "arrestee" includes persons who have been charged in a formal criminal instrument, such as an indictment.

Arrestee Hit

The disposition in CODIS for a match which has been confirmed between a forensic DNA sample and a sample from the Arrestee Index.

Arrestee Index

An Arrestee Index consists of DNA records of persons who have been arrested or indicted with a crime and are required by law to provide DNA samples.

ASCII

American Standard Code for Information Interchange. Text-only, with no formatting such as tabs, bold or underlining.

Assessment

A review of a laboratory, conducted by the FBI's CODIS Unit, to ensure compliance with the NDIS Operational Procedures and State/Federal law with respect to the laboratory's participation in NDIS.

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Autosearcher

A CODIS program that automatically searches all DNA profiles in a user-specified index against all profiles in one or more other user-specified indexes.

Base Pair Distance

When profiles containing particular loci are compared, the base pair distance is the microvariant amount that can exist for the alleles to still be considered a match. For example, a base pair distance of 1 would allow an allele 4 to match any of the following: 3.3, 4, and 4.1. This parameter can be set by the administrator. During review of a candidate match, the reviewer must check whether the alleles are indeed matching.

Benchwork Match

The disposition in CODIS for a case-to-case match found by the analyst or technical reviewer before any database search is ever done, once both profiles are in the database and searched against each other.

Biological Child Specimen Category

The CODIS specimen category for DNA profiles generated from known reference samples provided voluntarily by an adult child or provided with the parental/guardian consent for a minor child of a reported missing person. The DNA record for this specimen category is stored in the "Relatives of Missing Person Index." These DNA profiles are removed once the individual for whom the samples were submitted has been identified or if the individual voluntarily providing the reference sample is determined not to be related to the missing person.

Biological Father/Mother Specimen Category

The CODIS specimen category for DNA profiles generated from known reference samples provided voluntarily by the biological father/mother of a reported missing person. Profiles in this specimen category are stored in the CODIS index known as "Relatives of Missing Persons Index." These DNA profiles are removed once the individual for whom the samples were submitted has been identified or if the individual voluntarily providing the reference sample is determined not to be related to the missing person.

Biological Sibling Specimen Category

The CODIS specimen category for DNA profiles generated from known reference samples provided voluntarily by the adult biological sibling, or provided with the parental/guardian consent for a minor biological sibling, of a reported missing person. Profiles in this specimen category are stored in the CODIS index known as "Relatives of Missing Persons Index". These DNA profiles are removed once the individual for whom these samples were submitted has been identified or if the individual voluntarily providing the reference sample is determined not to be related to the missing person.

Cambridge Reference

The CRS is the standard sequence used in mitochondrial sequence DNA typing to which other mitochondrial DNA types are compared. Mitochondrial DNA profiles are reported as differences from the standard reference sequence [Anderson, S., et al. Sequence and organization of the human mitochondrial genome. *Nature* 1981; 290:457-465].

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Candidate Match

A possible match between two or more DNA profiles discovered by CODIS software. A qualified DNA analyst from each affected laboratory must verify a candidate match. Candidate matches must undergo a confirmation process before being reported as a match or hit.

Candidate Profile

A DNA profile matching the target DNA profile (see target DNA profile).

Case Disposition

The final outcome (confirmed conviction, offender hit, forensic hit, etc.) of a criminal case aided by CODIS.

Case Report

A report generated by a forensic laboratory documenting the results of the analyses of the crime scene evidence.

Casework Laboratory

A forensic DNA laboratory responsible for DNA profiles developed from crime scene evidence.

CJIS-WAN

The FBI's Criminal Justice Information Services Wide Area Network that provides communications network for the United States law enforcement community. Originally designed to support the Integrated Automated Fingerprint Identification System (IAFIS), the FBI is expanding the scope of the CJIS-WAN to include all federal, state and local crime laboratories participating in the National DNA Index System.

CMF

Common Message Format, an ASCII text file format which can be used for importing data into CODIS or exporting data out of CODIS.

CODIS

The Combined DNA Index System administered by the FBI. CODIS links DNA evidence obtained from crime scenes, thereby identifying serial criminals. CODIS also compares crime scene evidence to DNA profiles obtained from offenders, thereby providing investigators with the identity of the putative perpetrator. In addition, CODIS contains profiles from missing persons, unidentified human remains and relatives of missing persons.

There are three levels of CODIS: the Local DNA Index System (LDIS), used by individual laboratories; the State DNA Index System (SDIS), used at the state level to serve as a state's DNA database containing DNA profiles from LDIS laboratories; and the National DNA Index System (NDIS), managed by the FBI as the nation's DNA database containing all DNA profiles uploaded by participating states.

CODIS Administrator

An employee of the laboratory responsible for administration and security of the laboratory's CODIS at a laboratory performing DNA analysis on forensic and casework reference samples. This is also a defined role within the software.

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CODIS Core Loci

The 13 autosomal DNA loci that are accepted and required by CODIS for a particular DNA testing method. Currently the original STR core loci are CSF1PO, D13S317, D16S539, D18S51, D21S11, D3S1358, D5S818, D7S820, D8S1179, FGA, TH01, TPOX, and vWA. As of January 1, 2017, the expanded core consists of the original 13 loci plus D19S433, D2S1338, Penta E, Penta D, D1S1656, D2S441, D10S1248, D12S391, and D22S1045 .

CODIS Custodian /Casework CODIS Administrator

A member of the CODIS staff responsible for overseeing the CODIS system and all its functions (also called “LDIS Custodian”). This person fulfills the role of Casework CODIS Administrator as defined by the FBI QA Standards.

CODIS Information Technology (IT) User

A government employee of a CODIS laboratory who has login access to the CODIS system for computer hardware/software and telecommunications maintenance purposes but who is not authorized to add, modify, or delete DNA records in CODIS.

CODIS User

A government employee who: (1) has login access to the CODIS system and is authorized to read, add, modify or delete DNA records in CODIS; or (2) is a qualified DNA analyst responsible for producing DNA profiles stored in NDIS. This is a defined role within the software.

CODIS User Role (in the CODIS software)

Various combinations of full or limited access to the various functions in CODIS. CODIS Administrators have full access to all functions. CODIS Analysts have limited access to all functions. Certain titles such as QA/QC Analysts, LIMS Testing Analysts, and Profile Entry personnel, have full access to only some functions, as needed for their specific tasks.

Cold Hit

Two DNA profiles matching with no prior indication that the profiles are related.

Composite DNA Profile

A DNA profile generated by combining typing results from different loci obtained from multiple injections of the same amplified sample and/or multiple amplifications of the same DNA extract. When separate extracts from a given evidentiary item are combined prior to amplification, the resulting DNA profile is not considered a composite profile. Unless there is a reasonable expectation of sample(s) originating from a common source (e.g., duplicate vaginal swabs, known reference samples, or a bone), allelic data from separate extractions from different locations on a given evidentiary item should not be combined into a composite profile.

Contract Laboratory

A laboratory, usually in the private sector, that performs DNA analyses under contract to a forensic laboratory.

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Control Certification Form

This document certifies that the positive human DNA control(s) and the negative controls satisfy the requirements established by NIST. One document must be completed and submitted annually to the SDIS Custodian before DNA profiles can be uploaded into SDIS.

Convicted Offender Index

The Convicted Offender Index consists of DNA records entered into and eligible for the Convicted Offender, Multi-allelic Offender and Subject Specimen Categories. These records are eligible for upload to NDIS.

Convicted Offender Lab

A forensic DNA laboratory responsible for DNA profiles developed from Convicted Offender samples. In New York State, this is the New York State Police Forensic Investigation Center in Albany.

Convicted Offender Sample

A biological sample containing DNA that is collected from a designated convicted offender for the purpose of DNA profiling.

Convicted Offender Specimen Category

The CODIS specimen category for a DNA profile generated from any person who has been convicted of a crime and that crime is considered a designated qualifying offense per the NY State DNA Databank Law. The Division of Criminal Justice Services (DCJS) is responsible for verifying the offender's identifying information and the qualifying offense before the record is entered into CODIS. As of January 1, 2017, these profiles require a minimum of 20 CODIS core loci. As of June 2006, all convicted felons in New York must give a sample to the database; as of October 2012, all those convicted in New York of a felony or misdemeanor must give a sample to the database.

Conviction Match

The DNA profile generated from crime scene evidence matches a DNA profile from a convicted offender, but the offender has already been convicted of the crime for which that evidence was collected. For NDIS level matches, this disposition is also used for any subsequent matches to a specific offender that is already solved via a match to a New York (or another state's) database.

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Criminal History Record

Documents generated by DCJS that contain arrest, charges, conviction, sentence, location and identifying information of a convicted offender.

Criminal Justice Agency

A criminal justice agency is an agency or institution of the federal, state, or local government, other than the office of the public defender, which performs, as part of its principal function, activities relating to the apprehension, investigation, prosecution, adjudication, incarceration, supervision, or rehabilitation of criminal offenders. For purposes of participation in the National DNA Index System, the DNA Identification Act of 1994 was amended by Public Law 106-546 to include the Secretary of Defense in accordance with 10 U.S.C. §1565.

DAO

Stands for District Attorney's Office. There is one in each of the five boroughs of New York City.

Databank Coordinator

An employee or designee of the Division of Criminal Justice Services responsible for administrative requirements related to the New York State DNA Databank.

DCJS

Stands for Division of Criminal Justice Services. Acts as a liaison between local New York laboratories and the New York State Police Forensic Investigation Center. DCJS manages the program responsible for collection of offender samples in New York State, handles requests to expedite samples and database searches and handles legal requests for convicted offender information.

DCJS Match Letter

A letter generated by DCJS after a match between a forensic DNA profile and a New York State Police convicted offender profile has been confirmed. The purpose of this letter is to notify the laboratory of a confirmed match, provide case and agency information, the identity of the offender, and current offender location. The DCJS Match Letter is provided to the DAOs upon request.

Deduced Missing Person Specimen Category

The CODIS specimen category for DNA profiles generated from examining reference samples (for example, a toothbrush, razor, or hairbrush) of a reported missing person. Profiles in this specimen category are considered reference samples and are stored in the CODIS "Missing Person Index." This index is searched and compared against the Relatives of Missing Persons Index and the Unidentified Human (Remains) Index.

Detainee Index

The Detainee Index consists of DNA records entered into and eligible for the Detainee Specimen Category. These profiles are eligible for upload to NDIS.

Detainee Specimen Category

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The Detainee Specimen Category consists of profiles developed from known samples from a non-United States (U.S.) person detained under the authority of the U.S. and required by law to provide a DNA sample for analysis and entry into a state/national DNA database.

DNA Analysis Backlog Elimination Act

Authorized the collection of DNA samples from persons convicted of specified Federal Felony offenses, certain District of Columbia convicted offenders, and military offenders.

DNA Analyst

An employee that has successfully completed the laboratory's training requirements for casework, database, known or casework reference sample analysis; passed a competency test; and entered into a proficiency testing program in accordance with the FBI's *Quality Assurance Standards for Forensic DNA Testing or DNA Databasing Laboratories*. This individual conducts and/or directs the analysis of samples, interprets data and reaches conclusions. See also, Interpreting Analyst; Qualified DNA Analyst.

DNA Databank

The New York State Identification Index (as used throughout Executive Law Section 995) comprised of DNA profiles in the Convicted Offender index, the Forensic index and the Missing Persons index.

DNA HITS

The network-based application used by OCME to disseminate database matches to NYPD and the district attorneys' offices.

DNA Identification Act

DNA Identification Act of 1994; 42 U.S.C. §14132, as amended by the DNA Analysis Backlog Elimination Act of 2000, the Justice for All Act of 2004 and the DNA Fingerprint Act of 2005.

DNA Profile

The genetic constitution of an individual at defined locations (also known as loci) in the DNA. A DNA profile derived from nuclear DNA typically consists of one or two alleles at several loci (e.g., short tandem repeat loci). The DNA profile derived from mitochondrial DNA is described as differences in sequence in relation to the revised Cambridge Reference Sequence (*Nature Genetics* 1999, 23, 147). Also known as a DNA type.

DNA Record

A database record that includes the DNA profile as well as data required to manage and operate CODIS, i.e., the Originating Agency Identifier which serves to identify the submitting agency; the Specimen Identification Number; and DNA personnel associated with the DNA profile analyses.

Elimination Sample

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A biological sample from a known individual (commonly a husband or consensual partner), other than the alleged perpetrator or victim, which is analyzed for purposes of identifying those portions of a forensic DNA profile attributable to the alleged perpetrator. This DNA profile for this specimen category may be stored at the state and/or local levels but is not eligible for upload to NDIS. However, NYC OCME does not enter elimination samples from cases into the system at any level.

Employee

A person: (1) in the service of the applicable federal, state or local government, subject to the terms, conditions and rules of federal/state/local employment and eligible for the federal/state/local benefits of service; or (2) formerly in the service of a federal, state, or local government who returns to service in the agency on a part time or temporary basis. For purposes of a vendor laboratory, an employee is a person in the service of a vendor laboratory and subject to the applicable terms, conditions and rules of employment of the vendor laboratory.

Exact Match

An association between two profiles (single-source, fully deconvoluted, partially deconvoluted, or mixtures) that concludes that the two profiles, or components of the profiles, are the same.

Executive Law Article 49-B Section 995

Provisions of New York State law establishing the Commission on Forensic Science and the DNA Identification Index.

Expert System

The software program or set of software programs that interprets the data generated from DNA analysis instrument/platform in accordance with the laboratory-defined quality assurance rules and accurately identifies the data that does or does not satisfy such rules.

Expungement

The deletion of a DNA profile at the state and/or national index levels in response to the following: (1) a court order that has overturned a convicted offender's conviction for a qualifying offense; (2) a court order establishing that charges were dismissed or resulted in acquittal, or no charges were filed within the applicable time period; (3) a death certificate or other document indicating that human remains have been identified; (4) if the missing person corresponding to the reference sample from a relative has been identified.

Familial Search

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A targeted method that searches forensic DNA profiles against offender DNA records with the intended purpose of potentially identifying candidate matches which would indicate a close biological relationship to the unknown forensic DNA profile. These searches are conducted after a routine search of CODIS revealed no direct matches and are completed upon request (See *Section 10 – NYS CODIS Procedure – Familial Search Application*). A familial search is based on the concept that first-order relatives, such as siblings or parent/child relationships, will have more genetic data in common than unrelated individuals. New York State’s familial search policy became effective October 18, 2017.

FBI

The Federal Bureau of Investigation is the federal agency authorized by the DNA Identification Act of 1994 to issue quality assurance standards governing forensic testing and DNA databasing laboratories and to establish and administer the National DNA Index System (NDIS).

Forensic DNA Laboratory

Any forensic laboratory operated by the state or unit of local government that performs forensic DNA testing on crime scene evidence or materials derived from the human body for use as evidence in a criminal proceeding or for purposes of identification (Executive Law section 995(2)).

Forensic DNA Profile

A DNA profile generated from the testing of a biological sample associated with crime scene evidence (“Forensic Sample”). These profiles are from persons whose identities are not known with certainty and are associated with a putative perpetrator.

Forensic DNA Testing

Any test that employs techniques to examine DNA derived from the human body for purpose of providing information to resolve issues of identification (Executive Law section 995(2)).

Forensic Hit (FH)

CODIS case disposition when two or more forensic samples are linked; also called a case-to-case hit.

Forensic Index

The Forensic Index consists of Forensic DNA Profiles entered into and eligible for the Forensic Unknown Specimen Category. These profiles are eligible for upload to NDIS.

Forensic Match Letter

A letter from a laboratory documenting a confirmed Forensic Match. This letter provides information regarding the investigating agency and offender information (for solved cases).

Forensic Mixture Index

The Forensic Mixture index consists of Forensic DNA Profiles entered into and eligible for the Forensic Mixture Specimen Category. These profiles are eligible for upload to NDIS.

Forensic Mixture Specimen Category

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The CODIS specimen category for Forensic DNA Profiles originating from forensic samples that contain DNA contributed from more than one source. Profiles must contain data for at least 8 of the original CODIS Core Loci and must satisfy a statistical threshold for moderate match estimation of 1×10^7 to be eligible for NDIS. Profiles in this specimen category are stored in the “Forensic Mixture Index.”

Forensic Partial Index

The Forensic Partial Index consists of Forensic DNA Profiles entered into and eligible for the Forensic Partial Specimen Category. These profiles are eligible for upload to NDIS.

Forensic Partial Specimen Category

The CODIS specimen category for Forensic DNA Profiles that contain either locus or allelic dropout, originating from either a single source profile or an otherwise fully deduced profile from a mixture. Profiles must contain data for at least 8 of the original CODIS core loci and must satisfy a statistical threshold for moderate match estimation of 1×10^7 to be eligible for NDIS. Profiles in this specimen category are stored in the “Forensic Partial Index.”

Forensic Sample

A biological sample originating from and associated with a crime scene.

Forensic SDIS Only Index

The Forensic SDIS Only Index consists of Forensic DNA Profiles entered into and eligible for the Forensic SDIS Only and Low Copy Number Specimen Categories. These specimens are only eligible for upload to SDIS, not NDIS.

Forensic SDIS Only Specimen Category

Formerly known as the Required Alleles category, this CODIS specimen category contains Forensic DNA Profiles which either: a) have data at < 8 core loci; or b) do not meet a statistical threshold for moderate match estimation of 1×10^7 , but do meet a statistical threshold for moderate match estimation of 1×10^6 . Profiles must contain data for at least 6 of the original CODIS core loci. This category consists of both partial (single-source) and mixed (≥ 2 persons) samples. NDIS ineligible DNA records from illegal firearms will **not** be entered into this specimen category. The Forensic SDIS Only category is part of the “Forensic SDIS Only Index.”

Forensic Targeted Index

The Forensic Targeted Index consists of Forensic DNA Profiles entered into and eligible for the Forensic Targeted Specimen Category. These profiles are eligible for upload to NDIS.

Forensic Targeted Specimen Category

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A specimen category in the CODIS software that originates from partial or mixed Forensic DNA Profiles that do not meet a moderate match estimation threshold of 1×10^7 , but do meet the match rarity estimate threshold of 1×10^7 if searched at a specified stringency by locus (high or moderate). In addition, samples in this category must have data at least 8 of the original CODIS core loci.

Forensic Unknown Specimen Category

The CODIS specimen category for Forensic DNA Profiles that are single source or fully deduced from a mixture. Forensic Unknown profiles developed before December 31, 2016 must have all original CODIS core loci fully deduced to be eligible for this category; profiles developed after January 1, 2017 must have all original core loci fully deduced and have had the additional new core loci at least attempted. Profiles in this specimen category are stored in the "Forensic Index."

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Heteroplasmy

The occurrence of more than one mitochondrial DNA profile (mitotype) arising from a particular tissue(s) within an individual; exhibiting more than one base at a particular nucleotide position.

High Stringency

The number of alleles and the corresponding allelic values are the same between two DNA profiles at a given locus. For example, a 7, 9.3 matches 7, 9.3 at high stringency.

High Stringency Match

All alleles at all loci match at high stringency. A confirmed match between two or more DNA profiles. Hits can occur at or between any level (local, state, and national) in the CODIS hierarchy.

Homopolymeric Regions

The occurrence of variable lengths of the same nucleotide in a length of mtDNA (i.e. CCCCCC), these generally occur around the region of 16183-16193 in HV1 and 303-309, 311-315 in HV2.

Hypervariable Region I

A segment of increased variability in the mitochondrial DNA control region; the common nucleotide positions used in forensic mtDNA typing are 16024 to 16365.

Hypervariable Region II

A segment of increased variability in the mitochondrial DNA control region; the common nucleotide positions used in forensic mtDNA typing are 73 to 340.

Identification Aided

Similar to Investigation Aided; counted for a pedigree rank or direct match which leads to either an "ID Confirmed" or "ID Pending" disposition. The FBI uses this metric to track the effectiveness of the database program.

Identification Confirmed

ID confirmed. Disposition in CODIS when an individual is identified and confirmed; metadata and other information, such as a copy of the death certificate, support the confirmation of the identification.

Identifying Information

Information on a Convicted Offender's personal characteristics and ID numbers, e.g. name, NYSID number, date of birth, social security number, etc. Identifying Information is prohibited in CODIS.

Identification Pending (ID pending)

A disposition in CODIS when an individual's identification is still in the process of being confirmed by the medical examiner.

Index Offense

An offense defined in Executive Law Section 995, conviction of which determines eligibility for inclusion in the State DNA Databank as an offender.

Indictment

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A formal written accusation originating with a prosecutor and issued by a grand jury against a party charged with a crime.

Interpreting Analyst

Forensic Biology analyst responsible for interpreting the DNA results in a case. Interpreting Analysts are CODIS analysts.

Investigating Agency

See Submitting Agency.

Investigations Aided (IA)

A criminal investigation equates to a case, which equates to a submission to a laboratory. An investigation aided for a casework laboratory is the number of cases submitted to the lab that were assisted by CODIS. Investigations aided = Investigations assisted = Cases aided = Cases assisted.

Juvenile Specimen Category

The Juvenile Specimen Category consists of known samples from juveniles (as that term is defined by the relevant jurisdiction) who are required by state law to provide a DNA sample for analysis and entry into a state DNA database. The DNA profile for this specimen category is stored in an offender index as determined by the state that owns it.

Keyboard Search

A manual search of CODIS initiated by a CODIS user. In SDIS or NDIS, a keyboard search is initiated by the SDIS or NDIS Custodian at the request of a lower-level lab. In LDIS, the search is done by anyone who has been trained in the use of CODIS Searcher.

Keyboard Search Request

A request from an agency for a keyboard search of the DNA Databank at LDIS, SDIS or NDIS. This letter includes all of the information relating to the DNA profile, the requesting agency and certification of the control values.

Keyboard Search Result Letter

A letter from the Databank Coordinator documenting the results (match/no match) of the Keyboard Search.

Known Sample

Biological material whose identity or type is established. Examples of known samples would be a buccal specimen from a victim or suspect; or a sample contributed by the close biological relative of a missing person.

Laboratory

A facility: (1) employing at least two full time employees who are qualified DNA analysts; and (2) having and maintaining the capability to perform the DNA analysis of forensic and/or casework reference samples at that facility.

LAB-TYPES

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A database which contains DNA profiles from Department of Forensic Biology staff, known contaminant DNA profiles, and other DNA profiles from known individuals (such as janitorial staff or crime-scene and laboratory personnel from NYPD).

LDIS

The Local DNA Index System contains DNA records that can be searched for local DNA matches and be uploaded (if eligible) into higher level (SDIS and NDIS) CODIS indexes.

LDIS Only Index

The LDIS Only Index consists of specimens entered into and eligible for the LDIS Only and Suspect, Known Specimen Categories. These specimens are only eligible for entry into LDIS, not SDIS and NDIS.

LDIS Only Specimen Category

The CODIS specimen category at the local level of CODIS which contains Forensic DNA Profiles deemed ineligible for SDIS and NDIS. Profiles must contain at least 6 fully called loci and satisfy a statistical threshold for moderate match estimation of one in the size of the LDIS database, where applicable, in order to be eligible. This category is in the “LDIS Only Index.”

Learning Management System (LMS)

The online training system used by the FBI for the Annual Review of NDIS Eligibility, for CODIS New User training, and QAS Auditor training.

Legal Index

The Legal Index consists of DNA records entered into and eligible for the Legal Specimen Category. These profiles are eligible for upload to NDIS.

Legal Specimen Category

The Legal Specimen Category consists of known reference samples from persons whose DNA sample was collected under applicable legal authorities (provided that DNA samples that are voluntarily submitted solely for elimination purposes shall not qualify as a Legal specimen). An example of a Legal specimen is a sample collected from a person found not guilty by reason of insanity who is required by the relevant state law to provide a DNA sample for analysis and entry into a state DNA database. The DNA profile for this specimen category is stored in the “Legal Index.”

LINKAGE

The DNA database used to search preliminary DNA results for case links. LINKAGE contains both casework non-mixture profiles (or deduced) forensic DNA profiles generated from casework and DNA profiles from suspects developed during the course of criminal investigations. As of October 2013, no further samples are being added to it; however, it is still available for searching as before.

LINKAGE User

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A laboratory employee who: (1) has login access to the LINKAGE system and is authorized to read, add, modify and/or delete DNA records in it; or (2) was a qualified DNA analyst responsible for producing DNA profiles stored in LINKAGE.

Low Copy Number (Low Template DNA Analysis)

As defined by NDIS, based upon a laboratory's internal validation, any DNA typing results generated from limited quantity and/or quality DNA template using conditions that have demonstrated increased stochastic effects are defined as Low Template or Low Copy DNA analyses. The stochastic effects which may be observed in DNA samples subjected to these conditions include allelic drop-in or drop-out, increased stutter and increased intra-locus peak height imbalance. When used to analyze limited quantity and/or quality DNA template below the stochastic thresholds, Low Template or Low Copy DNA conditions may include the following: additional amplification cycles, post-amplification purification, reduced reaction volume, injection enhancement by increased voltage or time, and nested PCR.

Low Copy Number Profile

Forensic Unknown composite profiles that have been analyzed using extra cycles during amplification. These samples are stored in the Low Copy Number specimen category in the Forensic SDIS Only Index.

Low Copy Number Specimen Category

The Low Copy Number Specimen Category exists in the Department of Forensic Biology LDIS and at New York State SDIS for the purpose of uploading and searching profiles generated using low copy number (amplification) techniques. Such profiles are not eligible for NDIS. This category is a member of the "Forensic SDIS Only Index."

Low Stringency

For a given locus, an allelic value for one allele from one profile is the same as an allelic value for one allele from another profile. For instance, a 10, 12 matches a 12, 13 at low stringency.

Low Stringency Match

At least one locus between two profiles being compared matches at low stringency, with the remainder of the loci matching at moderate stringency or higher.

Marked/Unmarked Profile

Marked profiles in Specimen Manager are profiles selected for upload to SDIS. Unmarked profiles are those profiles deselected for upload to SDIS. The Pattern (a local legacy index), LDIS Only, and Suspect, Known specimen categories are unmarked by definition.

Match

A match occurs when CODIS makes an association between two or more DNA profiles and a confirmation is performed by designated laboratory personnel from each affected laboratory. At the Casework Laboratory and for the purpose of match evaluation, a high stringency match at all loci may be reviewed and evaluated by an individual who is currently or was previously a qualified DNA analyst. At the Casework Laboratory, a match at any loci at less than high stringency shall be reviewed and evaluated by a DNA casework analyst currently qualified in the technology being reviewed.

Match Confirmation

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The process of determining if a potential candidate match generated by CODIS or other database software is a true match and should be reported to the investigating agency.

Match Estimation Utility

A module within CODIS Popstats which calculates moderate match estimation and match rarity estimation.

Match Manager

Match Manager is the CODIS module that allows for the managing and sorting of matches discovered through the use of CODIS. Matches are added to Match Manager by the Searcher and Autosearcher programs.

Match Report

Electronic report generated by CODIS when a potential candidate match is made by CODIS software.

Match Stringency

The overall stringency (low, moderate, or high) for a match. The match stringency for the match between two DNA profiles is determined by the lowest locus-level stringency for all loci of the match. A Match Stringency is used to establish whether or not two DNA profiles are identified as matching in the CODIS software. The CODIS software supports three Match Stringency levels: low, moderate, and high. Low stringency matches occur when, at a given locus, one or more alleles match between the profiles, but there are additional alleles that do not match (e.g., profile A has 11,12 and profile B has 12,14). Moderate stringency matches occur when, at a given locus, the smallest subset of alleles match the other profile (e.g., profile A has the smallest subset of 11,12, and those alleles are present in profile B, which has 11,12,13). High stringency matches require all alleles to match at a given locus.

Maternal Relative Match

A disposition that can be used in CODIS to describe a mtDNA match between two specimens.

Maternal Relative Specimen Category

The CODIS specimen category for known reference samples voluntarily provided by maternal biological relatives who are not a mother, child or sibling of a reported missing person. The DNA profiles for this specimen category are stored in the "Relatives of Missing Persons Index." These DNA profiles are removed once the individual for whom the samples were submitted has been identified or if the individual voluntarily providing the reference sample has been identified.

Methodology

The term used to describe the analytical processes and procedures used to support a DNA typing technology: for example, extraction methods (manual vs. automated), quantitation methods (slot blot, fluorometry, real time), typing test kit and platform (capillary electrophoresis, real-time gel and end-point gel systems).

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Mis-match (search)

A parameter within Searcher and Autosearcher which allows for one locus of a profile being searched to match (or not) below the search stringency level that is set, and still return the result as a match. For example, during a moderate search where one mis-match is allowed, if two profiles are identified as matching at high or moderate match stringency at all but one location, the match will still be displayed, and the one low stringency location will appear as a “no match.” If this parameter is set to “zero”, then the match must occur with no mis-matches at the selected stringency in order to be returned by the search. Searches allowing one mis-match are performed at LDIS and SDIS; the purpose is to identify offender and forensic matches in spite of a possible typographical or interpretational error at one locus of any given profile.

Missing Person Index

The Missing Person Index consists of DNA records of known profiles entered into and eligible for the Missing Persons and Deduced Missing Ppersons Specimen Categories.

Missing Person Specimen Category

The CODIS specimen category for known reference samples of individuals reported missing, voluntarily provided by a relative or the person who filed the missing person report. The source of the DNA has been verified as originating from the missing person and is stored in the “Missing Persons Index.”

Mitochondrial DNA

A small circular piece of DNA found outside the nucleus in most cells and generally involved in the production of proteins responsible for energy production in the body. It is inherited maternally.

Mitotype

A mitochondrial DNA profile consisting of a listing of nucleotide sequence differences from a standard reference sequence; typically the Cambridge Reference Sequence (CRS) or revised Cambridge Reference Sequence (rCRS). The mitotype will vary depending upon the sequence detected.

Moderate Match Estimation (MME) value

A threshold value for a profile to meet to be eligible for upload into NDIS (1×10^7). This value is calculated automatically by the CODIS software upon a sample's entry into the database, and is based on parameters including allele frequencies and database size. *It is possible for a sample to have a ME value of >1 and be able to pass the MME threshold of 1×10^7 for NDIS. Such samples are eligible for NDIS if they have at least 8 original core loci. Conversely, samples which meet ME but do not meet MME will not be allowed in NDIS.*

Moderate Stringency

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For a given locus, a minimum number of common alleles and the corresponding allelic values must be the same between two profiles. The minimum number is determined by the profile with the fewest alleles. This is the standard search stringency. For instance, a 10 matches 10, 11 at moderate stringency, as does a 10 or a 10, 11 match a 10, 11, 12.

Moderate Stringency Match

A match between two DNA profiles in which the locus-level stringency match for all the loci of the match was either at moderate or high stringency. No loci matched at low stringency.

NamUs

National Missing and Unidentified Persons System; they maintain a website with sections for missing persons, unidentified persons, and unclaimed persons. Contains information relevant to missing persons DNA work.

NCIC

National Crime Information Center.

NCIC Miscellaneous Field

The designated free text field in NCIC where identifying information as to the location where DNA profiles have been produced may be placed. This field should also be used to enter information when a candidate DNA sample does not yield a DNA profile.

NCIC Unidentified Person File

The file in NCIC containing records for unidentified deceased persons; persons of any age who are living and unable to ascertain their identity; unidentified catastrophe victims; and body parts. For CODIS purposes, the DNA profile for unidentified persons in the Unidentified Human Remains Index is related to records in the NCIC Unidentified Person File.

NCMEC

National Center for Missing and Exploited Children. Relevant for missing persons work.

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NDIS

The National DNA Index System. NDIS is one component of CODIS – the national and highest level index containing the DNA records contributed from participating federal, state and local laboratories. NDIS is administered by the FBI in accordance with the provisions of the DNA Identification Act of 1994, as amended.

NDIS receives DNA records from every lower level index and supports the searching functions of CODIS. These DNA records are comprised of forensic DNA profiles, convicted offender DNA profiles, arrestee DNA profiles, DNA profiles from missing persons and relatives, and anonymous DNA profiles contributed to a population database.

NDIS Standards for Acceptance of DNA Data

The document prepared by the FBI specifying the requirements for DNA data to be accepted for searching and storage at the national level. These must be reviewed by CODIS analysts annually, and currently consist of a web-based training followed by a quiz.

Negative Amplification Blank

A negative control sample containing amplification reagents without added DNA, used to detect DNA contamination of the amplification reagents during testing.

Negative Control

A specimen included in a batch of specimens which, when tested using DNA testing methods, should yield negative test results.

Negative Reagent Blank

A negative control sample containing all testing reagents without added DNA which is used to detect DNA contamination of any reagent during testing.

NIST

Stands for the National Institute of Standards and Technology.

No Match

CODIS match disposition for a candidate match between two cases that is not a true match.

No Suspect Case

1. A case with no suspect listed. This is determined by checking all paperwork associated with the evidence submission and case contacts.
2. A case in which DNA testing has been conducted and the listed suspect(s) have been excluded.

NYPD

Stands for the New York (City) Police Department.

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NYS CODIS Administrator

The New York State CODIS Administrator is responsible for the oversight and approval of CODIS functions at the state level. This includes supervising the SDIS custodian.

NYS DNA Databank

The New York State Identification Index as used throughout Executive Law Section 995, which is comprised of DNA profiles in the Offender STR Index, the Forensic STR Index, the Unidentified Humans Index, the Missing Person Index and the Relatives of Missing Persons Index.

NYSID Number

The New York State Identification Number. A unique number assigned to a person upon fingerprinting. NOTE: This number is only applicable to New York State convicted offenders; other states have their own identifiers for offenders and arrestees.

Obligate Allele

See “Required Allele”.

Offender

An individual who is required by statute to submit a sample for DNA analysis and databasing. The term “offender” includes individuals who are convicted or arrested for a crime, or juveniles adjudicated delinquent for an offense and required by state or federal law to provide a DNA sample for analysis and databasing.

Offender Duplicate

CODIS match disposition when the same offender matches a case more than one time due to duplicate testing of the offender. This also serves as a quality control of the SDIS database.

Offender Hit

CODIS match disposition when a Forensic DNA Profile in an open case (case with no conviction) matches a convicted offender profile at SDIS or NDIS.

Offender Laboratory

The laboratory responsible to NDIS for a DNA profile developed from a sample provided by a known offender. The offender laboratory for the State of New York is located at and administered by the New York State Police Laboratory.

Offender Match Letter

A letter from NYS DCJS (for state convicted offender matches) or the offender lab (offender matches at NDIS) documenting a confirmed Offender Match. Provides the offender’s identifying information and the investigating agency. It is used by the agency investigating the case to obtain a court order to acquire another biological sample from the convicted offender for comparison to crime scene evidence.

ORI

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Stands for Originating Agency Identifier. Unique laboratory identification number that associates a specimen with a particular laboratory (OCME - NY030011K).

Other (pattern) Specimen Category

A legacy CODIS specimen category that the Department of Forensic Biology used for Forensic DNA Profiles generated from the testing of crime scene evidence that were known to match other forensic DNA profiles in the LINKAGE and/or LDIS databases, one of which had already been uploaded to the upper levels of CODIS. These (pattern) profiles were unmarked for upload to SDIS and were only searched in LINKAGE and/or LDIS.

Ownership

Ownership occurs when any of the following criteria are applicable:

- (1) The originating laboratory will use any samples, extracts or any materials from the vendor laboratory for the purposes of forensic testing (i.e., a vendor laboratory prepares an extract that will be analyzed by the originating laboratory);
- (2) The originating laboratory will interpret the data generated by the vendor laboratory;
- (3) The originating laboratory will issue a report on the results of the analysis; or
- (4) The originating laboratory will enter or search a DNA profile in CODIS from data generated by the vendor laboratory.

Forensic Biology takes ownership of CODIS specimens submitted by other agencies for testing at OCME, for instance Unidentified Human Remains that were received for mitochondrial DNA testing.

Partial Locus

A locus marked in the CODIS software as an indicator that there is, or may be, at least one or more alleles that are not able to be reported. The Partial Locus is indicated with "{P}" after the alleles. This aids in match review.

Partial Match

An association between two single-source (clean or fully deconvoluted profiles), showing similarities but short of an exact match, that suggests that the source of an evidentiary profile is potentially a relative of the source of the other, partially matching, profile. Partial matches are inadvertent, and may be found at the local, state, or national levels (through comparison at the bench, LINKAGE, or CODIS searches). Partial matches differ from familial searches in that familial searches are intentionally performed, while partial matches arise as a by-product of standard searches.

Paternal Relative Specimen Category

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The CODIS specimen category for known reference samples voluntarily provided by paternal biological relatives who are not a father, child or sibling of a reported missing person. The DNA profiles for this specimen category are stored in the “Relatives of Missing Person Index.” These DNA profiles are removed once the individual for whom the samples were submitted has been identified or if the individual voluntarily providing the reference sample is determined not to be related to the missing person.

Pedigree Tree

A pictorial representation of the relationships between family members (Relatives of Missing Persons) and the missing person(s). These are used to assist with locating missing persons by searching the family tree against the Unidentified Human Remains Index, rather than the individual family member’s profile(s). A Single Typed Node Pedigree contains the genetic information from only one biological relative of the missing person.

Pedigree Tree Index

The Pedigree Tree Index consists of DNA records of relatives and spouses of missing persons that are associated with a Pedigree Tree.

Pending

A CODIS disposition choice used temporarily while awaiting the final results from a confirmed match from the investigating agencies.

Perpetrator

The individual who commits a crime. The identity of the perpetrator may or may not be known to the police.

Personally Identifiable Information

Information that includes, but is not limited to, names, dates of birth, and social security numbers used to identify individuals. Personally identifiable information does not include information derived from the examination of the DNA sample. Personally identifiable information is prohibited in CODIS.

Platform

The type of analytical system utilized to generate DNA profiles such as capillary electrophoresis, real-time gel, and end-point gel instruments or systems.

Popstats

CODIS program available within the CODIS software to perform statistical calculations using the FBI population databases.

Positive Human DNA Control

A known reference DNA sample traceable to the NIST standard reference material for which the DNA profile is known, and is used to demonstrate the acceptable performance of a DNA test.

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Privacy Act

Regulation which determines what information can be entered into CODIS in order to protect the rights of the individual.

Proficiency Testing

A quality assurance measure used to monitor performance and identify areas in which improvement may be needed. Proficiency tests may be classified as: (1) an internal proficiency test, which is produced by the agency undergoing the test. (2) An external proficiency test, which may be open or blind, is a test obtained from an approved proficiency test provider.

Qualified Auditor

A current or previously qualified DNA analyst who has successfully completed the FBI DNA Auditor's training course.

Qualified DNA Analyst

A DNA analyst who has satisfied and continues to satisfy the experience, education, training, proficiency testing and continuing education requirements of the FBI Director's Quality Assurance Standards (Standards 5 and 13), issued in accordance with the DNA Identification Act of 1994, as well as successful completion of a qualifying test prior to beginning casework or databasing responsibilities.

In the Department of Forensic Biology, a Qualified DNA Analyst is defined as an Interpreting Analyst who is a Criminalist II or higher title meeting the above requirements.

Quality Assurance

Those planned or systemic actions necessary to provide adequate confidence that a product or service will satisfy given requirements for quality.

Quality Control

The day-to-day operational techniques and activities used to fulfill requirements of quality.

Ranks

Associations made in CODIS after searching Pedigree Trees against the Unidentified Human Remains Index.

Reference Sample

A casework reference sample is biological material obtained from a known individual and collected for purposes of comparison to forensic samples. Also known as an exemplar or known DNA sample.

Relatives of Missing Person Index

The Relatives of Missing Person Index consists of DNA records entered into and eligible for the following specimen categories: Biological Child, Biological Father, Biological Mother, Biological Sibling, Maternal Relative, Paternal Relative, and Spouse.

Requesting Laboratory

A laboratory that sends a request to the SDIS or NDIS Custodian to search SDIS or NDIS.

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Required Allele

Specific designated alleles of a specimen are required to match in order for CODIS to return a candidate match. Required alleles are attributable to the perpetrator in a mixture, and are designated with a “+.” This requires the designated “+” allele to be present in any DNA profile possibilities returned from a database search. This will aid in excluding some of the spurious candidate matches which might occur if the locus is marked as inconclusive. For example, a 13+ would match 10, 13; 11, 13; 12, 13; 13, 13... but would exclude anything that did not contain a 13 allele. Only one allele per locus can be so designated.

Required Alleles Specimen Category (now referred to as Forensic SDIS Only)

The CODIS specimen category for forensic unknowns and/or forensic mixtures which can have up to one allele marked as an obligate, per locus. Profiles in this category are only searched at LDIS and SDIS, not NDIS. As of October 2013, this category was renamed to Forensic SDIS Only.

Revised Cambridge Reference Sequence (rCRS)

A revision of the standard sequence (CRS) used in mitochondrial DNA typing.

“Scientific Reason”

A statement that supports a search using fewer than the required minimum STR loci at the state or national level, such as the apparent presence of mixtures, sample degradation or limited sample availability.

SDIS

The State DNA Index System. The State’s repository of DNA records under the control of state authorities. SDIS is typically the central point of contact between all New York State local labs and NDIS. (See also Convicted Offender Laboratory).

SDIS Custodian

An employee or designee of the New York State Police responsible for, among other duties, maintaining SDIS, fulfilling technical requirements of CODIS, and proper operation of the computer hardware on which the DNA Databank resides.

SDIS Gun Mixture

The CODIS specimen category for Forensic DNA profiles containing DNA contributed from more than one source, and generated from the testing of a forensic sample recovered from unlawfully possessed guns that are not eligible for upload to NDIS. Profiles must contain data for at least 8 autosomal CODIS core loci and must satisfy a statistical threshold for moderate match estimation of 1×10^6 . Profiles in this specimen category are stored in the “SDIS Gun Mixture Index.”

SDIS Gun Mixture Index

The SDIS Gun Mixture Index consists of Forensic DNA Profiles entered into and eligible for the SDIS Gun Mixture Specimen Category. These profiles are eligible for upload to SDIS only.

SDIS Gun Partial

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The CODIS specimen category for Forensic DNA profiles containing either locus or allelic dropout, originating from a single source or an otherwise fully deduced profile from a mixture, and generated from the testing of a forensic sample recovered from an unlawfully possessed gun that is not eligible for upload to NDIS. Profiles must contain data for at least 8 autosomal CODIS core loci and must satisfy a statistical threshold for moderate match estimation of 1×10^6 . Profiles that contain complete information at the 13 CODIS core loci, but contain obligate alleles at any of the expanded CODIS core loci, also fit in this category. Profiles in this specimen category are stored in the “SDIS Gun Partial Index.”

SDIS Gun Partial Index

The SDIS Gun Partial Index consists of Forensic DNA Profiles entered into and eligible for the SDIS Gun Partial Specimen Category. These profiles are eligible for upload to SDIS Only.

SDIS Gun Unknown

The CODIS specimen category for Forensic DNA profiles (single source or fully deduced from a mixture) that are generated from the testing of a forensic sample recovered from unlawfully possessed guns that are not eligible for upload to NDIS. The profiles must have all original CODIS core loci fully deduced, with new core loci attempted, to be eligible for this category. Profiles in this specimen category are stored in the “SDIS Gun Unknown Index.”

SDIS Gun Unknown Index

The SDIS Gun Unknown Index consists of Forensic DNA Profiles entered into and eligible for the SDIS Gun Unknown Specimen Category. These profiles are eligible for upload to SDIS only.

Search

A method for comparing target and candidate profiles to see if any match.

Search Results

After CODIS determines that two or more DNA profiles match, an electronic report is generated by CODIS and is distributed to the laboratories responsible for the matching profiles.

Search Stringency Parameters

Allows the user to define the number of alleles per locus that the target profile and candidate profile must have in common. It is a user-defined setting that is used as a filter to report locus matches of equal or higher stringency (see Low Stringency, Moderate Stringency, High Stringency).

Searcher

Searcher is an application within the CODIS suite of software products. It provides a means of locating specific DNA profiles by searching the profiles within the CODIS indexes for potential matches to a target DNA profile.

Single Typed Node

A pedigree tree index for those cases with only one relative sample that has been entered.

Specimen/Sample

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The biological sample (for example, blood, semen, or epithelial cells) that is the object of DNA analysis for purposes related to forensic identification or statistical population sampling.

Specimen Category

Used to classify a DNA profile and determine into which index a specimen can be transferred. For example, forensic unknown samples would be inserted into the Forensic index.

Specimen ID

Identification number associated with a DNA profile entered into the CODIS system. Specimen ID numbers must be unique and can be no longer than 24 characters. The OCME Department of Forensic Biology uses a standard format which is explained in section 4.1 of this manual.

Specimen Manager

Specimen Manager (SpecMan) is a CODIS module that provides a simplified, central interface for managing specimens (DNA records). In SpecMan, views of specimens can be created using different criteria, specimens can be marked/unmarked for upload and uploads can be sent.

Spouse Index

The Spouse Index consists of the DNA records entered into and eligible for the Spouse Specimen Category.

Spouse Specimen Category

The CODIS specimen category for known reference samples voluntarily provided by presumptive parents of a common child. The DNA profiles for this specimen category are stored in the "Spouse Index." The DNA record of a spouse shall be removed if the missing person corresponding to this reference sample has been identified.

State Defined #1, 2, 3, 4, 5

CODIS match dispositions that can be defined by the state CODIS system in the event that the others are not appropriate.

State Defined #1 is the designated disposition for second and later instances of a pattern, hitting the same offender at SDIS. Previously, DCJS did not issue Offender Match Letters for these matches, however, as of March 2020, DCJS now issues Offender Match Letters for SD#1 matches.

State Defined #2 has been designated as "SDIS Conviction Match," which is a case disposition used for previously solved hits involving SDIS Gun Index specimens and state offenders.

State Defined #3 has been designated "SDIS Forensic Hit," which is a case disposition used for forensic to forensic hits involving SDIS Gun Index specimens.

State Defined #5 has been designated "SDIS Offender Hit," which is a case disposition used for previously unsolved hits involving SDIS Gun Index specimens and state offender specimens.

State Defined #4 is not currently in use.

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Statute of Limitation

A statutory provision which sets forth the maximum period of time that can lapse after a criminal act occurs for it to be taken to court. If that maximum time period passes and the perpetrator has not been formally charged for the criminal act, then he or she never can be.

Stringency

Stringency levels define the number of alleles that must match in order to produce a match (low, moderate, or high).

Subject Index (LDIS)

The Subject Index at LDIS consists of Suspect DNA Profiles entered into and eligible for the Suspect, Known Specimen Category. These profiles are eligible for entry into LDIS only.

Subject Index (SDIS)

The Subject Index at SDIS consists of DNA profiles entered into and eligible for the Subject Specimen Category. At LDIS, the Subject Index consists of DNA profiles entered into and eligible for the Suspect, Known Specimen Category.

Subject Specimen Category

The CODIS Specimen Category for DNA records from NYS offenders without a qualifying offense for inclusion into the Convicted Offender Specimen Category, but deemed eligible for CODIS entry by DCJS. Subject refers to DNA records from an individual convicted of a crime whose DNA was collected: pursuant to a plea agreement; as a condition for participation in a temporary release, Comprehensive Alcohol and Substance Abuse Treatment (CASAT) or shock incarceration program; as a condition of release on parole, post-release supervision, presumptive release, or conditional release on a definite or indeterminate sentence; or as a condition of probation or interim probation supervision. As of January 1, 2017, these profiles require a minimum of 20 CODIS core loci. Profiles in this specimen category are stored in the "Subject Index" (SDIS).

Submission Form

The DNA Databank Specimen Submission Form. This form, which contains the bar code number of the offender's sample, is submitted to the convicted offender laboratory along with the offender's DNA sample. This form contains the offender's identifying information, and the facility responsible for the sample collection.

Submitting Agency

The agency that submitted evidence to a forensic DNA crime laboratory. The submitting agency is responsible for investigating crimes.

Suspect Case

1. A case in which DNA testing has been conducted and the listed suspect(s) have been included.
2. A case with a suspect listed and no DNA analysis has been performed to exclude them.

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Suspect DNA Profile

An individual whose identity is known to the police and who is alleged to be the perpetrator of a crime. Exemplars collected from suspects include blood samples, buccal specimens (oral swabs), or abandonment samples (such as cups, cigarette butts, straws, soda bottles, etc.) submitted to the laboratory for DNA comparison purposes.

Suspect, Known Specimen Category

The CODIS specimen category for Suspect DNA Profiles. Profiles in this category must contain a minimum of 6 fully deduced loci to be eligible for this category. Profiles which contain data at <10 loci must meet a statistical threshold of moderate match estimation of one in the size of the LDIS database. Profiles in this specimen category are stored in the "Subject Index" (LDIS).

Target DNA Profile

A target profile is a DNA profile for which you are trying to find a matching DNA profile. This profile is submitted by a criminal justice agency for the purpose of searching against DNA profiles maintained by SDIS and NDIS which could match an indexed DNA profile.

Technical Leader

An employee who is accountable for the technical operations of the laboratory and who is authorized to stop or suspend laboratory operations.

Technology

The type of forensic DNA analysis performed in the laboratory, such as RFLP, STR, YSTR, or mitochondrial DNA.

Unidentified Human (Remains) Index

The Unidentified Human (Remains) Index consists of DNA records entered into and eligible for the Unidentified Human Remains Specimen Category. These profiles are eligible for upload to NDIS.

Unidentified Person Specimen Category

The CODIS specimen category for DNA profiles developed from a recovered deceased individual (including body parts and tissue) or an individual who is unidentified (for example, children and others who are unable to, or refuse to, identify themselves). Profiles in this specimen category are stored in the "Unidentified Human (Remains) Index."

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Upload

The transfer of electronic data from a lower level of CODIS (LDIS or SDIS) to an upper level (SDIS or NDIS).

Use and Dissemination Agreement

An official document allowing the transfer of Databank information from one agency to another. This document contains requirements for the confidentiality and dissemination of DNA information and procedures for laboratories participating in SDIS and NDIS.

User

Personnel who have login access to CODIS and/or qualified DNA analysts who are responsible for producing the DNA profiles stored in NDIS.

User Defined #1, 2, 3, 4, 5

CODIS case dispositions that can be defined by the user in the event that the others are not appropriate.

User Defined 1 is used when OCME tests and enters a sample into the database that was previously tested and entered by another lab. Typically, this occurs in missing persons cases where OCME performs not only STR but mitochondrial testing as well.

User Defined 2 is generally used when a forensic sample hits an additional sample (offender duplicate) taken from the same offender which the forensic sample had hit previously. This is defined by agreement among all the NY labs.

User Defined 3 is generally used when a forensic sample hits a known sample at SDIS which turns out to be a victim, witness, consensual partner or other elimination sample which was unable to be obtained for in-house testing. Forensic samples involved in matches/hits of this type are then removed from the database. This disposition can also be the “catch-all” for all other uncommon match resolutions. This disposition is defined as needed by the LDIS lab upon concurrence by SDIS.

User Defined 4 is used for local level, suspect to evidence matches in instances where the suspect was not connected to the evidence case prior to the DNA results (i.e. cold). It is similar to an offender hit at the state level.

User Defined 5 is currently undefined and not used.

Waiting for More Data

Disposition in CODIS. Additional testing may be needed to confirm or refute the match or rank. This may or may not be possible; therefore this could end up being a “final” disposition for a match, however this is not optimal.

FORENSIC BIOLOGY CODIS MANUAL

CODIS Terms and Abbreviations		
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Warm match/hit

A warm match occurs when CODIS DNA profiles match based on prior knowledge. A typical example is when DNA profiles from several cases match that were submitted to the laboratory as a pattern, or when a suspect exemplar submitted for a particular case matches that case.

XML format

Extensible Markup Language. Data format readable by computers and humans, which is used by LIMS.

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