DNA SOP-13 CODIS Profile Entry and Data Bank

13.1 PURPOSE:

13.1.1 To ensure that all forensic STR DNA records are generated, entered and searched in the State level of CODIS (SDIS) by the CT DSS DNA Unit in compliance with the requirements set forth in PA 15-207, CT State Statute 29-7b, and Quality Assurance Standards for Forensic DNA Testing Laboratories.

To ensure that all forensic STR DNA records are generated, entered and searched in the National level of CODIS (NDIS) by the CT DSS DNA Unit in compliance with the requirements set forth in PA 15-207, CT State Statute 29-7b, the Federal DNA Identification Act, NDIS Acceptance Standards (Chapter 4.0) and NDIS Searches (Chapter 5.0) of the NDIS Operational Procedures Manual and Quality Assurance Standards for Forensic DNA Testing Laboratories.

To ensure the reliability, accuracy and compatibility of DNA records uploaded to NDIS. To define the search parameters and guidelines for conducting searches at the CT laboratory (SDIS).

13.2 RESPONSIBILITY:

13.2.1 DNA Section Personnel.

13.3 DNA Records

13.3.1 A DNA record includes the following information: the DNA profile, the Laboratory ORI, the specimen identification number and the DNA personnel associated with or assigned to the DNA analysis. DNA records will not contain any identifiable information relating to the source/donor of the sample nor will it contain or be linked to any criminal history information.

13.3.1.1 The only categories of DNA records that may be maintained in CODIS are: DNA profiles from individuals convicted of a crime as specified in Connecticut General Statute 54-102g through 54-102m, misdemeanors with enhanced felony penalties as established by McCoy v. Commissioner of Public Safety, 300 Conn. 144 (2011) (see listed offenses in section 13.11) or so ordered by the court; DNA samples recovered from crime scenes; DNA samples from unidentified human remains; deduced knowns from missing persons; DNA samples voluntarily contributed from relatives of missing persons, and research/validation samples volunteered for the duration of the research. No sample submitted solely for elimination purposes shall be entered into SDIS, nor shall it be uploaded to NDIS.

ARCHIVED

13.3.1.2 The laboratory will only upload the categories of DNA records that are acceptable at NDIS. These categories include Arrestee, Convicted Offender, Forensic Mixture, Multiallelic Offender, Forensic Partial, Forensic Unknown, Biological Child, Biological Father, Biological Mother, Biological Sibling, Deduced Missing Person, Maternal Relative, Missing Person, Paternal Relative, Spouse and Unidentified Person.

13.3.2 All DNA records submitted to CODIS for the Arrestee, Convicted Offender, Multiallelic Offender and Relatives of Missing Persons categories should contain results at a minimum from the required 20 CODIS Core Loci and Amelogenin. In the event one of the non-original core loci fails to give a complete result, the profile may still be submitted to CODIS. The analysis of all 20 CODIS Core Loci shall be attempted for all DNA profiles to be offered in to the Forensic Unknown, Forensic Partial and Forensic Mixture categories, however the 13 Original CODIS Core Loci will be used to meet the minimum # of loci required to enter a record in each category. (See section 13.5)

13.3.3 The 13 Original CODIS Core Loci are D8S1179, D21S11, D7S820, CSF1PO, D3S1358, TH01, D13S317, D16S539, vWA, TPOX, D18S51, D5S818, and FGA.

13.3.4 The CODIS Core Loci are those loci required for upload to NDIS and consist of the 13 Original CODIS Core Loci with the addition of D2S1338, D19S433, D1S1656, D2S441, D12S391, D10S1248 and D22S1045.

13.4 Forensic DNA Record Eligibility for CODIS Entry:

13.4.1 All forensic STR DNA profiles being considered for entry into CODIS will be generated in adherence to the current Standard Operating Procedures for the DNA Unit of the CT Division of Scientific Services such that all DNA records to be submitted to NDIS are in accordance with Standard 9 of the QAS. Only NDIS accepted PCR testing kits will be used to generate these profiles.

13.4.2 All STR DNA results obtained from the analysis of forensic samples being considered for entry into CODIS will be technically reviewed by a second qualified analyst according to standard DNA protocols prior to entry into CODIS. This technical review will include the verification of all extraction and amplification controls, allelic ladders and internal lane standards.

13.4.3 NDIS Upload
The CT Division of Scientific Services generally follows the principles described in ‘A Guide to Determining What is Allowable in the Forensic Index at NDIS” (DNA SOP 13.10) in determining the eligibility of a forensic STR DNA profile for upload to NDIS.

ARCHIVED

13.4.3.1 The analyst will review the case summary to determine that a crime has been committed. If the analyst cannot ascertain that a crime was committed through information provided by the submitting agency, the profile is not eligible for entry into NDIS unless additional information is obtained to indicate a crime was committed.

13.4.3.2 If a crime has been documented, then the analyst will determine if the STR DNA profile was developed from a piece of evidence/biological material collected from a crime scene. If the evidence/biological material was not collected from a crime scene, then the forensic STR DNA profile shall not be uploaded to NDIS.

13.4.3.3 If the evidence/biological material was collected from a crime scene, then the analyst will establish that the forensic STR DNA profile to be entered into NDIS is attributable to the putative perpetrator. A good faith effort will be made and documented in the case file to obtain known samples from victims, consensual partners and other individuals for elimination purposes. If all other eligibility requirements are met, the profile may be entered into NDIS immediately following the documented attempt to obtain the elimination known. With the exception of RUSH cases, if elimination knowns have already been submitted to the laboratory, the analyst will obtain the known profile results prior to entering a profile into CODIS. If the forensic STR DNA profile or unambiguous alleles are attributable to the victim or another individual other than the putative perpetrator, then the profile or unambiguous alleles shall not be uploaded to NDIS.

13.4.3.4 If the forensic STR DNA profile or unambiguous alleles are attributable to the putative perpetrator, then the analyst will review the case documentation and/or contact the submitting agency to determine if there is a suspect in the case. If there is no suspect in the case or no arrest has been made, the forensic STR DNA profile is eligible to be uploaded to NDIS.

13.4.3.5 If there is a suspect in the case, the analyst will ascertain whether the item from which the forensic STR DNA profile was developed was seized from the suspect's person or in the suspect's possession at the time of collection. Any forensic STR DNA profile generated from an item taken from the suspect's person or possession shall not be considered a forensic unknown nor shall it be eligible for entry into NDIS. If the item was not collected from the suspect's person or possession, the STR DNA profile is eligible for upload to NDIS.

13.4.3.6 Documentation of the eligibility requirements for the forensic STR DNA profile will be recorded on DNAQR-13: CODIS Profile Entry Worksheet.

13.4.3.7 If information that indicates a profile is no longer eligible to be in the database is obtained after NDIS entry and/or searching, the profile shall be deleted from NDIS. If it is determined by the State's Attorney that no crime has been committed, the profile will be

ARCHIVED

deleted from NDIS. If the profile is deleted after a report has already been issued, a "CODIS Change in Profile Status" memo will be completed.

13.4.3.8 When an analyst is uncertain whether an unknown profile is eligible for NDIS entry based on the information or lack of information available in the case jacket, the profile will be brought to the CODIS Administrator or designee(s) for review. The CODIS Administrator or designee will review the case information and render an opinion on the eligibility status.

Any mixture profile that has sufficient data but due to the complexity of the overall profile, the intended profile entry does not meet the national moderate match estimation (MME) threshold will be brought to the CODIS Administrator. The CODIS Administrator or designee(s), will review the profile data to verify its complexity and initial the statement of no CODIS entry for the sample in the Draft Report. In the event the CODIS State Administrator (or designee(s)) has verified the DNA record to be a State Forensic Mixture and not eliglible to be a Forensic Mixture on DNA-QR-13 (see DNA SOP 13.7.2), this documentation is sufficient and does not require further documentation of the Draft Report. The CODIS Administrator is responsible to ensure the quality of the data in the database and will make the final decision regarding profile eligibility.

13.4.4 SDIS Entry
The CT Division of Scientific Services follows the DSS policies and procedures in determining the eligibility of a forensic STR DNA profile for entry at SDIS (DNA SOP 13.5, GL 1.2, PA 15-207).

13.4.4.1 Any DNA profile obtained from forensic evidentiary samples submitted in accordance with DSS requirements (PA 15-207, GL 1.2, CT Statute 29-7b) may be entered into SDIS as discussed in 13.4.4.2-5 in accordance with the standards discussed in DNA SOP 13.5.

13.4.4.2 A good faith effort will be made and documented in the case file to obtain known samples from victims, consensual partners and other individuals for elimination purposes. If all other eligibility requirements are met, the profile should be entered into SDIS immediately following the documented attempt to obtain the elimination known. With the exception of RUSH cases, if elimination knowns have already been submitted to the laboratory, the analyst will obtain the known profile results prior to entering a profile into CODIS. If the forensic STR DNA profile or unambiguous alleles are attributable to the victim or another elimination sample, then the profile or unambiguous alleles shall not be entered into SDIS.

13.4.4.3 Documentation of the eligibility of the forensic STR DNA profile will be recorded on DNA QR-13: CODIS Profile Entry Worksheet. Should circumstances warrant an exception to these eligibility requirements and the State Administrator allows an STR DNA profile to be entered at SDIS, the event will be documented on DNA-QR-13, "Describe why sample is

ARCHIVED

eligible for SDIS CODIS entry" field. The State Administrator will initial and date the documentation.

13.4.4.4 If information that indicates a profile is no longer eligible to be in the database is obtained after SDIS entry and/or searching, the profile shall be deleted from SDIS. If it is determined by the State's Attorney that no crime has been committed, the profile will be deleted from SDIS. If the profile is deleted after a report has already been issued, a "CODIS Change in Profile Status" memo will be completed.

13.4.4.5 When an analyst is uncertain whether an unknown profile is eligible for SDIS entry based on the information or lack of information available in the case jacket, the profile will be brought to the CODIS Administrator or designee(s) for review. The CODIS Administrator or designee will review the case information and render an opinion on the eligibility status.

Any profile that has sufficient data but due to the complexity of the overall profile the intended profile entry does not meet the state match estimation threshold will be brought to the CODIS Administrator. The CODIS Administrator or designee(s), will review the profile data to verify its complexity and initial the statement of no CODIS entry for the sample in the Draft Report. The CODIS Administrator is responsible to ensure the quality of the data in the database and will make the final decision regarding profile eligibility.

13.5 Standards for Entering a Forensic STR DNA Profile into CODIS

All forensic STR DNA profiles to be entered into CODIS shall be interpretable such that the data can be used to make exclusions. A good faith effort will be made to obtain complete and accurate results for each locus and enter all probative data from the STR DNA profile.

13.5.1 Special Circumstances for Profiles generated with Fusion 6C Kits

Mixtures determined to have more than 4 contributors will not be considered for CODIS entry unless there is a known(s) for conditioning which will bring the unknown contributors to 4. In this situation, where the mixture has more than 4 unknown contributors, the CODIS Administrator or designee does not need to confirm that the profile is too complex for entry.

The use of the probabilistic genotyping system STRmix may be used to assist an analyst in determining the appropriate alleles to be entered into a DNA record.

During analysis and number of contributor estimation, an analyst can determine (with TL and AD approval) that a 5 or more person mixture has a clear major contributor. Please refer to

ARCHIVED

DNA SOP-31 Fusion 6C Section, 31.15. Since statistics are able to be calculated, profiles that have a clear major are eligible for CODIS.

13.5.2 Specimen categories for forensic samples are Forensic Unknown, State Forensic Unknown, Forensic Partial, State Forensic Partial, Forensic Mixture, and State Forensic Mixture.

13.5.2.1 A forensic STR DNA record shall be categorized as a Forensic Unknown or a State Forensic Unknown when the DNA profile originates from a single source forensic sample (or a fully deduced profile originating from a mixture) having apparent complete genotypes at all 13 Original CODIS Core Loci for NDIS and all 13 Original CODIS Core Loci plus D2S1338 and D19S433 for SDIS, and no more than 3 allelic dropouts of the remaining CODIS Core Loci. Additionally, the profile shall not have more than 3 alleles at one locus while the remaining loci can have up to 2 alleles. If the profile to be entered was deconvoluted from a mixture the analyst should be confident that the profile being entered into the Forensic Unknown specimen category is a complete single source profile. Note: If a profile has a locus with an apparent mutation resulting in a lower peak height, it should be entered as a mixture even if it appears to be single-source, so that it will search at Moderate Stringency.

13.5.2.2 A forensic STR DNA record shall be categorized as a Forensic Partial when the DNA profile originates from a single source forensic sample (or a fully deduced profile originating from a mixture) in which either locus or allelic dropout has occurred at any of the 13 Original CODIS Core Loci or when the profile to be entered has complete genotypes at all 13 Original CODIS Core Loci but has allelic dropout at more than three (3) of the remaining loci. The DNA profile entered as a Forensic Partial must include data from at least 8 of the 13 Original CODIS Core Loci. A Forensic Partial DNA record shall not have more than 3 alleles at one locus while the remaining loci can have up to 2 alleles.

13.5.2.2.1 A forensic STR DNA record shall be categorized as a State Forensic Partial when the DNA profile originates from a single source forensic sample (or a deduced profile originating from a mixture) in which either locus or allelic dropout has occurred. The DNA profile entered as a State Forensic Partial must include data from at least 6 of the 13 Original CODIS Core Loci and D2S1338 and D19S433. If a State Forensic Partial is entered with 6 or 7 Original CODIS Core Loci or D2S1338 and D19S433, these 6 or 7 loci must be complete (no dropout). A State Forensic Partial DNA record shall not have more than 3 alleles at one locus while the remaining loci can have up to 2 alleles.

13.5.2.3 A forensic STR DNA record shall be categorized as Forensic Mixture when the DNA profile originates from a forensic sample comprised of DNA potentially contributed from more than one source and contains data from at least 8 of the 13 Original CODIS Core Loci. A Forensic Mixture DNA record will have no more than four (4) alleles entered at any locus.

ARCHIVED

13.5.2.3.1 A forensic STR DNA record shall be categorized as State Forensic Mixture when the DNA profile originates from a forensic sample comprised of DNA contributed from more than one source and contains data from at least 8 of the 13 Original CODIS Core Loci and D2S1338 and D19S433. A State Forensic Mixture DNA record should have no more than four (4) alleles entered at any locus. The CODIS Administrator may give approval to exceed the four allele limit for SDIS only. The CODIS Administrator will document the exception to the rule on QR-13 or the Specimen Detail Report.

13.5.3 All Forensic Mixture and Forensic Partial DNA records will be evaluated to ensure the DNA record will satisfy the NDIS statistical threshold for Moderate Match Estimation (MME) in CODIS of 1×10^7. Data from the 13 Original CODIS Core Loci will be used to calculate the MME for NDIS. All State Forensic Mixture and State Forensic Partial DNA records will be evaluated to ensure the DNA record will satisfy a statistical threshold for an average number of matches of approximately one (1) match in the size of the State DNA database with one (1) mismatch when data at 10 or more loci are entered and zero (0) mismatches when data at 9 or less loci are entered. Entries with an average number of matches between 2 and 5 will be brought to the CODIS Administrator to be reviewed and if appropriate given approval for entry into SDIS.

For profiles entered at SDIS only, the match estimation function in PopStats is used to assist in determining the statistical threshold for profile(s) entered into CODIS.

13.5.3.1 The CODIS State Administrator may approve exceptions to the above rule for records entered at SDIS only. Approval of the CODIS Administrator, initials and date, will be documented on the specimen detail report or on DNA-QR-13.

13.5.4 Composite STR DNA profiles may be submitted to SDIS and NDIS. The CT Division of Scientific Services defines a composite STR DNA profile as a profile generated from combining the allelic data obtained from the amplification(s) of a single extracted evidentiary sample by 1) more than one PCR kit (e.g. ABI AmpF*l*STR Identifiler/Identifiler Plus and Minifiler kits) 2) multiple amplifications of the same extract using a single PCR kit, or 3) combining data from more than one injection from a single amplification from a single kit.

13.5.5 Keyboard Searches: Generally, a manual keyboard search compares a DNA profile against DNA records contained in SDIS without the searched DNA profile being entered as a DNA record into SDIS or uploaded into NDIS. Keyboard searches are not intended to be a replacement for scheduled searches, however in the event of exigent circumstances, a DNA record may be keyboard searched with the permission of the State Administrator. Discretion will be used in making such decisions, keeping in mind the investigative usefulness of the information gained from the search, state laws and other legal considerations. Approval of the CODIS Administrator for all keyboard searches (initials and date) will be documented on the match detail report or QR-13.

ARCHIVED

13.5.5.1 Configuration Data for a Keyboard Search
Return All Candidates
STR
Minimum # of loci to report a match = 6
Include Specimen Candidates that Match at all but 0 loci
Use as Match Filter
Index(es) to Search In = Forensic, Forensic Partial, Forensic Mixture, Offender, Multiallelic Offender
Candidate View = Default
Stringency = M (Moderate)*

If data from 10 or more loci are entered a second keyboard search should be conducted with the same parameters as above except the following:
Minimum # of loci to report a match = 9
Include Specimen Candidates that Match at all but 1 loci

13.5.5.2 A request to the NDIS Custodian can be made for a keyboard search of a DNA profile at NDIS in exigent circumstances as defined in the NDIS Procedures or if the DNA profile generated from a serious violent crime does not meet the minimum required loci but does contain at least 7 of the Original CODIS Core Loci and satisfies the statistical threshold for match rarity of one (1) in the size of the National DNA database. Note: If the statistical threshold is not satisfied but the exact genotype can be determined for one or more loci, the request to search the profile may be submitted to NDIS along with this list of loci that can be searched at high stringency to improve the match rarity statistic. Only the13 Original CODIS Core Loci are used in the match rarity estimate.

13.5.5.3 STR DNA profiles that have been keyboard searched may be saved to an appropriate Batch Target file in order to be searched periodically at SDIS. A Batch Target file is a single file containing several DNA profiles that may be used as target profiles during a search.

13.5.5.4 In instances where it is highly likely that the source of the profile is the listed victim and a known reference sample from the victim has not been submitted, following the request and documentation of a known reference sample, the CODIS Administrator may conduct a keyboard search using the parameters listed in 13.5.5.1 except the following:
Index(es) to Search In = Offender, Multiallelic Offender

If this keyboard search generates a match and it is determined that the matching Offender is the listed victim, the match will be saved. The profile will not be entered into SDIS or NDIS. The disposition for this match will be Investigative Information. The submitting agency will be notified of this information either by the DNA report, the CIPS form, or other communication from the CODIS unit.

ARCHIVED

If this keyboard search generates a match and it is determined that the matching Offender is not the listed victim, the match will be saved and confirmed according to SOP 15. The profile should be entered into SDIS and/or NDIS as appropriate.

If this keyboard search does not generate any matches, the profile should be entered into SDIS and/or NDIS as appropriate. If at any time it is determined that this profile is attributable to the victim, it will be deleted from CODIS.

13.5.6 Low template and low copy DNA analyses are not conducted by the DNA Section of the CT Division of Scientific Services, therefore no profiles of this nature will be submitted to SDIS or NDIS.

13.6 Entering a Forensic STR DNA Profile into CODIS (Creating a DNA Record)

13.6.1 A qualified DNA analyst will establish a unique DNA record for each profile to be entered into CODIS. A second qualified DNA analyst will verify the accuracy and eligibility of the DNA record. The first qualified DNA analyst will document the establishment of a unique DNA record on DNA-QR-13 by recording the case #, the submission/item #, item description and the intended specimen category for the profile to be entered into CODIS.

13.6.1.1 Establish a DNA record by opening Analyst Workbench. Click on the STR/Y-STR Data Entry icon (red notebook and pencil icon).

13.6.1.2 Enter the Specimen ID # in the STR/Y-STR Data Entry window. The specimen ID # is the laboratory case # followed by a space then the submission/item # (e.g. 11-4444 1CB). If this is an SDIS-only profile because of case scenario, the letters CT will precede the specimen ID# (e.g. CT 11-4444 1CB). For ease in querying DNA records, the laboratory case # should be entered with at least four digits after the year (e.g. 12-00xx 1S1 rather than 12-xx 1S1). If more than one DNA record will be established for a DNA profile, then a suffix should be added to the Specimen ID # (e.g. 11-4444 1CB-MAJ or 11-4444 1CB-major).

13.6.1.3 Click on the pull down arrow for Specimen Category and select OTHER. OTHER has been defined as a nonsearchable specimen category.

13.6.1.4 If the profile to be entered has been associated with a known sample, using the pulldown menu for Source Identified?, select YES. Otherwise, select NO.

13.6.1.5 Enter the probative alleles for each locus under Reading #1. Enter the probative alleles for each locus under Reading #2. Check to make sure that both readings are concordant. For Forensic Partial and State Forensic Partial profiles, loci in which only one allele has been entered and there is the potential for dropout or uncertainty that a full genotype has been entered, the Partial Profile indicator for that locus will be changed to YES.

ARCHIVED

Save the profile by clicking the SAVE button. The MME window will populate at this time. If the final specimen category for the DNA record is intended to be Forensic Partial or Forensic Mixture verify and document on DNA QR-13 that this number is greater than 1 x 10^7.

13.6.1.6 If the final specimen category for the DNA record is intended to be State Forensic Partial, State Forensic Mixture, Forensic Partial or Forensic Mixture and there are potentially additional probative alleles that have not been entered, the overall Partial Profile indicator will be changed to YES.

13.6.2 If the final specimen category for the DNA record is intended to be State Forensic Partial or State Forensic Mixture, the profile is sent to Popstats>Match Estimation by clicking on the Popstats button and selecting Match Estimation in the pop-up window. Change the Database Specimen Count to the size of the appropriate database. Change the number of mismatches as appropriate for the number of loci entered. Click calculate and observe the average number of moderate matches to verify the match rarity estimation meets the appropriate statistical threshold. Document that the average number of matches satisfies the statistical threshold on DNA-QR-13.

13.6.2.1 If necessary, the entered alleles may be modified appropriately to attain the statistical threshold. The State Administrator may approve the entry of a DNA record that does not meet the statistical threshold for SDIS only. Discretion will be used in making such decisions, keeping in the mind the circumstances of the particular case, the ability to verify any matches with a second technology and other legal considerations. The State Administrator will document his/her approval on DNA-QR-13. The CODIS software will automatically reject any profile uploaded to NDIS that does not have an MME of 1 x 10^7 or greater.

13.7 Verification of a Forensic STR DNA Record.

13.7.1 A second qualified DNA analyst will verify the eligibility of the DNA record to be entered into CODIS. To verify the eligibility of the DNA record, confirm that the forensic STR DNA profile meets the requirements stated in section 13.4. Document the verification of eligibility on DNA-QR-13.

13.7.2 Any qualified DNA analyst may verify the accuracy of the DNA record intended to be a State Forensic Unknown, State Forensic Partial, Forensic Unknown or Forensic Partial. The CODIS State Administrator (or designee(s)) will verify the accuracy of the DNA record for any State Forensic Mixture or Forensic Mixture. Open Analyst Workbench. Click on Specimen Manager. Click on the EDIT icon and query the DNA record. Click on the STR/YSTR
Data entry icon.

ARCHIVED

13.7.2.1 Confirm that the correct alleles have been entered at each locus. To document this verification, under the Verified By column, click on the blank box for the first locus with entered data and select username from the pulldown menu. The Verified Date will automatically be populated. Repeat this step for every locus that has entered data.

13.7.2.2 If the appropriate specimen category is Forensic Partial, Forensic Mixture verify the profile meets the NDIS threshold for MME. If the appropriate specimen category is State Forensic Partial or State Forensic Mixture, then the verifying DNA analyst will send the profile to Popstats > Match Estimation by clicking on the Popstats button and selecting Match Estimation in the pop-up window Change the Database Specimen Count to the size of the appropriate database. Change the number of mismatches as appropriate for the database and number of loci entered. Click Calculate and observe the Average Number of Moderate Matches to verify the SDIS match rarity threshold. Document that the estimation satisfies the appropriate statistical threshold on DNA-QR-13.

13.7.2.3 Change the specimen category from OTHER to the appropriate FORENSIC specimen category. (Refer to section13.5.3). CLOSE the Specimen Detail Report window.

13.7.3 A verifying DNA analyst will mark an eligible DNA record for upload to NDIS. The DNA record is "marked" for upload to NDIS when the column called "Marked Date" is populated. If the DNA record should be uploaded to NDIS and 'Marked Date" column is unpopulated, click on the" Mark Specimen for Upload" icon. Document whether the DNA record is marked for upload to NDIS on DNA-QR-13.

13.7.3.1 If the DNA record is not eligible for upload to NDIS, the column called "Marked Date" should be unpopulated. If necessary, click on the "Unmark Specimen for Upload" icon. The reason for unmarking a specimen for upload to NDIS should be recorded on DNA QR-13 and in the comments section of STR data entry.

13.7.3.2 PRINT the Specimen Detail report.

13.7.4 The first (or another) qualified DNA analyst will confirm that the correct specimen category was selected and indicate this by initialling and dating the Specimen Detail report prior to the next Autosearch and upload.

13.8 Conducting Searches and Search Parameters

The following search configurations are based upon the 13 Original CODIS Core Loci:

13.8.1 Search of Forensic Profiles to the Staff Index:

ARCHIVED

13.8.1.1 All forensic profiles (single source profiles and mixtures of no more than 3 individuals) shall be searched against the staff index unless the profile can be unambiguously attributed to elimination, suspect, or victim known(s) or insufficient data was generated to conduct such a search. DNA mixtures of 4 or more individuals will be searched only against the staff members in the chain of custody of the item tested. This search may be conducted against the staff index contained within the Cross-Comparison & Staff Search macros, or the STRMix software. Document the staff search results on QR-20.

13.8.2 Scheduled AutoSearches at SDIS

13.8.2.1 An Autosearch is a set of parameters that is established to automatically search all DNA profiles in a specified index against all profiles in other specified indexes. Autosearches can be initiated on a manual basis or they can be scheduled to occur at SDIS at a time determined by the State Administrator. The seven (7) autosearches outlined in 13.8.2.1.1 through 13.8.2.1.6 shall be scheduled to occur at least once weekly. The one (1) autosearch outlined in 13.8.2.1.7 shall be scheduled to occur at least once monthly.

13.8.2.1.1 **Configuration Data for High Stringency 6 Loci 0 loci no match**
Return All Candidates
STR
Minimum # of loci to report a match = 6
Include Specimen Candidates that Match at all but 0 loci
Use as Match Filter
Required to report a Match
AutoSearcher Mode = Standard
Specimens to Search = All Specimens
Index(es) to Search In =
Forensic vs. Forensic
Forensic vs. Forensic Mixture
Forensic vs. Offender
Forensic Mixture vs. Forensic
Forensic Mixture vs. Forensic Mixture
Forensic Mixture vs. Offender
Offender vs. Forensic
Offender vs. Forensic Mixture
Forensic Partial vs. Forensic
Forensic Partial vs. Forensic Partial
Forensic Partial vs. Forensic Mixture
Forensic Partial vs. Offender
Forensic vs. Forensic Partial
Forensic Mixture vs. Forensic Partial
Offender vs. Forensic Partial
Match Reports = Automatically send Match Reports to Remote Labs
Stringency = H (High)

13.8.2.1.2 **Configuration Data for High Stringency 8 Loci 1 locus no match**
Return All Candidates
STR
Minimum # of loci to report a match = 7

ARCHIVED

Include Specimen Candidates that Match at all but 1 loci
Use as Match Filter
Required to report a Match
AutoSearcher Mode = Standard
Specimens to Search = All Specimens
Index(es) to Search In =

Forensic vs. Forensic	Forensic Partial vs. Forensic
Forensic vs. Forensic Mixture	Forensic Partial vs. Forensic Partial
Forensic vs. Offender	Forensic Partial vs. Forensic Mixture
Forensic Mixture vs. Forensic	Forensic Partial vs. Offender
Forensic Mixture vs. Forensic Mixture	Forensic vs. Forensic Partial
Forensic Mixture vs. Offender	Forensic Mixture vs. Forensic Partial
Offender vs. Forensic	Offender vs. Forensic Partial
Offender vs. Forensic Mixture	

Match Reports = Automatically send Match Reports to Remote Labs
Stringency = H (High)

13.8.2.1.3 **Configuration Data for Mod Stringency 10 Loci 1 locus no match**
Return All Candidates
STR
Minimum # of loci to report a match = 9
Include Specimen Candidates that Match at all but 1 loci
Use as Match Filter
Required to report a Match
AutoSearcher Mode = Standard
Specimens to Search = All Specimens
Index(es) to Search In =

Forensic vs. Forensic	Forensic Partial vs. Forensic
Forensic vs. Forensic Mixture	Forensic Partial vs. Forensic Partial
Forensic vs. Offender	Forensic Partial vs. Forensic Mixture
Forensic Mixture vs. Forensic	Forensic Partial vs. Offender
Forensic Mixture vs. Forensic Mixture	Forensic vs. Forensic Partial
Forensic Mixture vs. Offender	Forensic Mixture vs. Forensic Partial
Offender vs. Forensic	Offender vs. Forensic Partial
Offender vs. Forensic Mixture	

Match Reports = Automatically send Match Reports to Remote Labs
Stringency = M (Moderate)

13.8.2.1.4 **Configuration Data for Mod Stringency 8 Loci 0 loci no match**
Return All Candidates
STR
Minimum # of loci to report a match = 8

ARCHIVED

Include Specimen Candidates that Match at all but 0 loci
Use as Match Filter
Required to report a Match
AutoSearcher Mode = Standard
Specimens to Search = All Specimens
Index(es) to Search In =

Forensic vs. Forensic	Forensic Partial vs. Forensic
Forensic vs. Forensic Mixture	Forensic Partial vs. Forensic Partial
Forensic vs. Offender	Forensic Partial vs. Forensic Mixture
Forensic Mixture vs. Forensic	Forensic Partial vs. Offender
Forensic Mixture vs. Forensic Mixture	Forensic vs. Forensic Partial
Forensic Mixture vs. Offender	Forensic Mixture vs. Forensic Partial
Offender vs. Forensic	Offender vs. Forensic Partial
Offender vs. Forensic Mixture	

Match Reports = Automatically send Match Reports to Remote Labs
Stringency = M (Moderate)

13.8.2.1.5 **Configuration Data for Mod Stringency 6 Loci 0 loci no match**
Return All Candidates
STR
Minimum # of loci to report a match = 6
Include Specimen Candidates that Match at all but 0 loci
Use as Match Filter
Required to report a Match
AutoSearcher Mode = Standard
Specimens to Search = All Specimens
Index(es) to Search In =
Forensic vs. Unidentified Human Remains (UHR)

Forensic Mixture vs. UHR	Forensic Partial vs. UHR
Missing Person vs. UHR	Forensic Partial vs. Missing Person
Offender vs. UHR	UHR vs. Forensic Partial
Forensic vs. Missing Person	Missing Person vs. Forensic Partial
Forensic Mixture vs. Missing Person	Missing Person vs. Forensic
Offender vs. Missing Person	Missing Person vs. Forensic Mixture
UHR vs. Forensic	Missing Person vs.Offender
UHR vs. Forensic Mixture	UHR vs. UHR
UHR vs. Missing Person	UHR vs. Offender

Match Reports = Automatically send Match Reports to Remote Labs
Stringency = M (Moderate)

13.8.2.1.6 **Configuration Data for Low Stringency 6 Loci 0 loci no match**
Return All Candidates

ARCHIVED

STR
Minimum # of loci to report a match = 6
Include Specimen Candidates that Match at all but 0 loci
Use as Match Filter
Required to report a Match
AutoSearcher Mode = Standard
Specimens to Search = All Specimens
Index(es) to Search In =
UHR vs. Relatives of Missing Person
UHR vs. UHR
Relatives of Missing Persons vs. UHR
Missing Person vs. Relatives of Missing Person
Relatives of Missing Person vs. Missing Person
Match Reports = Automatically send Match Reports to Remote Labs
Stringency = L(Low)

13.8.2.1.7 **Configuration for Mitochondrial DNA Search**
Return All Candidates
Mito
Minimum # of Overlapping Base Pairs to report a Match = 400
Use as Match Filter
Required to Report a Match
AutoSearcher Mode = Standard
Specimens to Search = All Specimens
Index(es) to Search In =
UHR vs. Relatives of Missing Person
UHR vs. UHR
Missing Person vs. UHR
UHR vs. Missing Person
Relatives of Missing Persons vs. UHR
Missing Person vs. Relatives of Missing Person
Relatives of Missing Person vs. Missing Person
Match Reports = Automatically send Match Reports to Remote Labs

13.8.3 Manually initiated AutoSearch

13.8.3.1 Configuration Data for Duplicate Offenders.
Return All Candidates
STR
Minimum # of loci to report a match = 12
Include Specimen Candidiates that Match at all but 1 loci
Use as Match Filter

ARCHIVED

Required to report a Match
AutoSearcher Mode = Standard
Specimens to Search = All Specimens
Index(es) to Search In = Offender vs.Offender
Match Reports = Automatically send Match Reports to Remote Labs
Stringency = H (High)

13.8.3.2 Additonal manual Autosearch configurations and searches may be authorized by the CODIS Administrator.

13.8.4 Familial Searching
13.8.4.1 The CT Division of Scientific Services does not conduct Familial Searches at this time.

13.9 Upload of DNA records to NDIS

13.9.1 An incremental upload of DNA records will be sent to NDIS at least once weekly at a time determined by the State Administrator. Full uploads of DNA records to NDIS will be scheduled with the permission of the NDIS custodian. A full upload should occur at least once annually.

ARCHIVED

13.10 A Guide to Determining What is Allowable for NDIS Entry

ARCHIVED

13.11 Misdemeanors with Enhanced Felony Penalties

53a-40(e)/53a-125	Larceny 4th degree
53a-40(e)/53a-125a	Larceny 5th degree

53a-40(e)/53a-125b	Larceny 6th degree
53a-40a/46a-58(a)	Deprivation of Rights
53a-40a/46a-58(b)	Desecration of Property
53a-40a/46a-58(c)	Cross Burning
53a-40a/53a-1811	Intimidate due to Bias 3rd degree
53a-40b	Criminal Act (Misdemeanor) While on Bond
53a-40d/53a-61	Assault 3rd degree
53a-40d/53a-61(a)(1)	Assault 3rd degree - Physical Injury
53a-40d/53a-61(a)(2)	Assault 3rd degree - Reckless Serious Injury
53a-40d/53a-61(a)(3)	Assault 3rd degree - Negligent Injury-Weapon
53a-40d/53a-61a	Victim Assault 3rd degree-Victim Elderly or Other
53a-40d/53a-181d	Stalking 2nd degree
53a-40d/53a-62	Threatening 2nd degree
53a-40d/53a-183b	Interfering with an Emergency Call
53a-40d/53a-183c	Disruption of a Funeral
53a-40d/53a-107	Criminal Trespass 1st degree
53a-40d/53a-107(a)(4)	Criminal Trespass 1st degree-Public Land
53a-217e(f)/53a-217e(c)	Negligent Hunting 2nd degree

Delete IDP workflow. Covered in DNA SOP 21

ARCHIVED