



SAMPLE SUBMISSION FOR ADDITIONAL DNA ANALYSIS

To fully utilize the searching capabilities of CODIS 6.0, the University of North Texas Center for Human Identification, in collaboration with the FBI, is assisting those laboratories using CODIS 5.7.4 and/or those that are unable to perform additional technologies beyond autosomal STRs. This document serves as a checklist for laboratories submitting genetic data for entry into CODIS 6.0 and/or samples for an additional analysis (mtDNA and/or Y-STRs). Forms found on the UNT Human ID website can be used to convey most of the requested information.

To submit samples for an additional analysis (mtDNA and/or Y-STR) please supply the following:

Family Reference Samples: Multiple References

NOTE: If multiple family members have submitted references for a missing person, a lineage-based technology will generally be performed on only one individual from the family. The profile obtained from the additional analysis along with the STR profiles provided will be entered into CODIS 6.0 as a part of the overall pedigree tree. The following information is required for all of the family members:

- Each of the relatives' STR profiles exported from CODIS 5.7.x in cmf 3.2 file(s) saved on a disk
The STR profile(s) must contain the minimum number of STR loci (13 core) required for searching at NDIS plus Amelogenin
- List of files on the disk; description of file contents
- Copy of the consent forms for each family member that submitted a reference (**NOTE:** if consent forms were not obtained at time of collection, please submit a letter that states why this was not done and the justification for uploading the profile to NDIS)
- Description of biological relationships to the missing person and/or a description of the pedigree for the missing person. Please specify maternal or paternal relationship and which type of additional testing is being requested (mtDNA or Y-STRs).
- Metadata regarding the missing person (name, sex, date of last contact, race, age when missing, date of birth, physical descriptors, etc.)
- Reference swab(s) for testing (**NOTE:** if unavailable, please contact the lab regarding the submission of extracted DNA for testing)

Family Reference Samples: Single Reference

NOTE: An additional analysis (mtDNA or Y-STRs) can be requested for a single reference sample when no other relatives have submitted samples for analysis regarding the missing person. However, due to NDIS search parameters, only single profiles from biological mothers, fathers, and children are being searched against remains AT THE NDIS LEVEL. All sample profiles are searched against our LDIS database. The following information is required:

- STR profile exported from CODIS 5.7.x in cmf 3.2 format and saved on a disk
The STR profile(s) must contain the minimum number of STR loci (13 core) required for searching at NDIS plus Amelogenin
- List of files on the disk; description of file contents
- Copy of the consent form for the family member that submitted the reference (NOTE: if a consent form was not obtained at time of collection, please submit a letter that states why this was not done and the justification for uploading the profile to NDIS)
- Description of biological relationship to the missing person. Please specify maternal or paternal relationship and which type of additional analysis is being requested (mtDNA or Y-STRs).
- Metadata regarding the missing person (name, sex, date of last contact, race, age when missing, date of birth, physical descriptors, etc.)
- Reference swab for testing (**NOTE:** if unavailable, please contact the lab regarding the submission of extracted DNA for testing)

Unidentified remains or direct reference samples:

NOTE: Sets of remains may be submitted to the anthropologist here at the UNTCHI for a complete anthropological analysis and report. For more information regarding this service, please contact the laboratory 817-735-5175 or e-mail us at CODIS@hsc.unt.edu.

- STR profile exported from CODIS 5.7.x in cmf 3.2 format and saved on a disk
The STR profile(s) should contain the minimum number of STR loci (8 core) required for searching at NDIS plus Amelogenin
- List of files on the disk; description of file contents
- Metadata regarding the remains if known (sex, approximate age, date remains found, location found, physical descriptors, etc.) or the missing person's information (name, sex, date of last contact, race, age when missing, date of birth, etc.)
- Portion of the unidentified remains/direct reference sample to be tested. (**NOTE:** if unavailable, please contact the lab regarding the submission of extracted DNA for testing)