
Procedure for Evidence Handling

1.0 Purpose - This procedure specifies the method for handling evidence within the Forensic Biology Section.

2.0 Scope – This procedure applies to those Forensic Scientists who handle forensic evidence/work products.

3.0 Definitions

- **Evidence** - An object submitted to the State Crime Laboratory for analysis. An item of evidence is equivalent to a test item as described in ISO 17025.
- **Work product** - The material that is generated as a function of the analysis and includes DNA extracts, amplified product, amplification tubes, 96 well plates used in analysis.
- **Distinguishable portion of the case file number** - At a minimum, the case number shall reflect the year and the five numbers unless one of the five numbers is a place holding zero.

4.0 Equipment, Materials and Reagents - N/A

5.0 Procedure

5.1 Each sample shall be labeled in accordance with the Procedure for Evidence Management and Forensic Biology Section Procedures.

5.1.1 Labeling

5.1.1.1 All tubes containing extracted DNA (including controls) shall contain the distinguishing portion of the case file number, the item number, the date of extraction and the Forensic Scientist's initials.

5.1.1.2 Amplified product shall be stored in trays labeled with the distinguishing portion of the case file number, the date of amplification, and the Forensic Scientist's initials.

5.1.1.3 The sides of 96 well trays used for capillary electrophoresis shall be labeled with the Forensic Scientist's initials. The columns used for a particular run shall be labeled by writing the date on the side of the tray and aligned with the specific columns (e.g., for December 14, 2006, the number 121406 or equivalent shall be used). If subsequent runs are loaded in the tray and run on the same date, then the date followed with ascending letters shall be used to designate the other runs (e.g., 121406, 121406a, 121406b.)

5.1.1.4 If the DNA extracts are resubmitted to the Laboratory or there is an internal transfer of the extracts, the following procedures shall take place:

5.1.1.4.1 If the original/raw evidence is resubmitted with the corresponding extracts or an internal transfer occurs while the corresponding evidence is still in the Laboratory, the extracts shall retain their original identification.

5.1.1.4.2 If the extracts have been resubmitted without the original/raw evidence, the contents of the container shall be sub-itemed based on the last assignment by FA. During this sub-item process, another Forensic Scientist shall verify that the sub-item numbering and description(s) of tubes(s) correctly identifies the

original number(s) and description(s). This shall be confirmed with a verification review in FA.

5.2 Storage - All evidence submitted for testing that is not actively being examined shall be stored as follows:

- All work product shall be refrigerated. All evidence with the exception of liquid blood samples shall be stored at room temperature.
- All bone and tissue shall be stored in the freezer.

5.3 Evidence Security - Evidence shall be maintained in a manner to avoid loss, contamination, and/or deleterious change but still allow access by the examiner during the examination process. All other evidence shall be sealed properly.

5.3.1 Evidence shall be secured prior to the Forensic Scientist leaving the room.

5.3.2 The Section Evidence Vault shall be secured at all times other than when an employee is in the vault.

5.4 General Procedure

5.4.1 The paperwork with the Sexual Assault Evidence Collection kits shall be evaluated for the time elapsed from alleged assault to collection of kit. If this time is ≥ 5 days, the kit shall not be examined without written documentation from the Body Fluid Technical leader with explanation of the extent of examination. Victim and suspect hair evidence found in the Victim and Suspect kits, any hair found in the panties in the Sexual Assault Evidence Collection Kits and the hair standards may be transferred to the Trace Unit; or, if all hair standards are not present, returned to the submitting agency; or returned to the submitting agency based upon the results of the examination in the Forensic Biology Section. For other items of evidence, refer to the State Crime Laboratory Evidence Guide for the requirements for processing of hair evidence.

5.4.2 All liquid blood samples shall be removed from evidence packages and refrigerated until a blood stain can be prepared on S&S 903 paper (or equivalent). If the Forensic Scientist determines the sample is too old or degraded to be useful as a standard, the sample need not be refrigerated and a blood stain need not be prepared. All liquid blood samples shall be processed in a Biological Safety Cabinet. After preparation of the blood stain, the blood tubes shall be re-capped and the tube shall be placed in a heat sealed container and placed back with the evidence. The blood stain shall be sub itemed and packaged in a properly labeled and sealed coin envelope after it is dried.

5.4.3 To maximize the potential of obtaining results from minimal sample amounts, it is permissible to consume the entire piece of evidence during analysis. The complete consumption of the evidence shall be documented in the case notes and noted on the evidence packaging.

5.4.4 DNA Forensic Scientists shall return all evidence to the investigating agency. The work product shall be disposed of in the biohazard trash (excluding DNA extracts.)

5.4.5 Upon completion of the DNA analysis, DNA extracts shall be assigned one container number in Forensic Advantage (FA) and returned to the investigating agency. The DNA extracts and their corresponding controls will be treated as follows:

5.4.5.1 Wrap each flip-top tube with Parafilm® (or equivalent) and place in an envelope. Properly label and seal the envelope. (See **4.3.5** in the State Crime Laboratory Procedure for Evidence Management.)

5.4.5.2 The outer packaging that contains the DNA extract envelope shall be labeled to denote that the packaging contains a container that needs to be removed and placed in the freezer upon receipt.

5.5 Disposition of Human Remains

5.5.1 When the Forensic Biology Section returns human remains to investigating agencies, the Disposition section of the Lab Report shall contain the following statement (or equivalent):

NOTE: Evidence being returned in this case includes human remains which need to be kept frozen to avoid degradation and offensive odors.

5.6 External Transfer of Evidence

5.6.1 All evidence transfers to outside agencies and from another Laboratory shall be made through the Evidence Control Unit.

5.6.2 The only exception to **5.6.1** shall be the direct transfer of evidence between Forensic Scientist and officer (e.g., Evidence Control requests Forensic Scientist to review and evaluate a case). Paperwork shall be cleared through the Evidence Control Unit.

6.0 Limitations – N/A

7.0 Safety - N/A

8.0 References

State Crime Laboratory Evidence Guide

9.0 Records – N/A

10.0 Attachments – N/A

Revision History		
Effective Date	Version Number	Reason
09/17/2012	1	Original Document
12/07/2012	2	5.4.4 – added wording to exclude DNA extracts from being disposed
02/01/2013	3	5.4.1 – added wording to refer hair evidence to Evidence Guide, 5.4.6 – changed procedure to dry down using an incubator, removed speedvac option, added Evidence Guide as reference.
05/30/2013	4	5.1 - adjusted wording to make consistent with other Section documents
09/13/2013	5	5.1.1.2 – 2 nd paragraph renamed as 5.1.1.3; 5.1.1.4 – clarified wording; 5.1.1.5 - added procedure for resubmission of extracts for analysis; 5.4.1 – changed hair transfer requirement to align with trace requests based on the results of analysis; 5.4.5 - removed section (slides remain with associated swabs)
10/16/2013	6	5.4.4 – removed “dried;” 5.4.5 – removed requirement for drying down DNA extracts, added requirements for returning DNA extracts in liquid form; added issuing authority to header.
12/18/2013	7	3.0, 5.2 – removed references to handling of dried DNA extracts
08/29/2014	8	5.4.1 – added time elapsed for kit examination; Trace Unit name changes
02/27/2015	9	5.4.5 – clarified wording; 5.3.1 – updated wording
12/28/2015	10	2.0 – added work product to scope; 5.1.1.4, 5.4.5.2 – original removed, added updated wording to Report Writing; 5.1.1.4 – removed for re-analysis; 5.3 – Updated due to change in storage; 5.4.5, new 5.4.5.2 – removed Item, replaced with Container