

History for the General Drug SOP

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Approval

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General Drug Standard Operating Procedures

1.0.0 Scope

The following guidelines describe how controlled substance laboratory reports are to be worded, what to do about analytical methods that are no longer, or rarely used, sample and standards destruction, and sampling rules. Not all of these rules will apply to the analysis of marijuana and clandestine laboratory samples. The exceptions for these samples will be noted in their respective SOP's.

2.0.0 Reporting

The choice of words for the "Description and Conclusion" section of the laboratory report should be as brief as possible while containing all of the following elements.

- 2.1.1 The container, if any, i.e. plastic bag, glass vial, paper bundle etc.
- 2.1.2 Physical description of substance. Powder, liquid, green plant material etc.
- 2.1.3 Original weight, volume, number of pills etc. of sample.
- 2.1.4 Conclusion. See 2.2.1 through 2.2.4
- 2.1.5 Amount used for analysis, or reserved weight.

- 2.2.0 All controlled substances analyzed, will be confirmed if possible. Exceptions are inadequate sample size or inability to obtain a standard. Pills that have recognizable logos and/or identification numbers need analytical confirmation if a literature search indicates that they contain a controlled substance, schedule one through four. All two part, unsealed, gelatin type capsules will be analyzed. For the purpose of satisfying the "two test, two sampling" rule, described in the appropriate analytical SOP's, a literature search will be considered as a presumptive test.
 - 2.2.1 If a substance is confirmed the report will read "contains XXXXX".
 - 2.2.2 If a substance is present but not confirmed, the report will read "Results of testing are consistent with XXXX, not confirmed".
 - 2.2.3 Non-analytical identifications of pills will read "*source* (PDR, Logo Index, etc.) lists as XXXX".
 - 2.2.3 All controlled substances should be scheduled if possible.
 - 2.2.4 Reporting of non controlled substances shall be left up to the discretion of the analyst.
- 2.3.0 Reported sample weights will not exceed the accuracy of the balance used.
 - 2.3.1 In order to alleviate confusion on the part of our customers, conversion between

metric and English units of measure should be reported on marijuana cases, when appropriate. Example 90.7g (3.2oz).

2.3.1 "Trace" will be defined as anything less than 0.10 grams.

3.0.0 Sample and Standard Destruction

3.1.0 Sample Destruction. For the purpose of this section a sample will be defined as any case work related extract, solution, or solid that is not returned to evidence. Standards of non-controlled substances will also be treated using these procedures.

3.1.1 Aqueous liquids will be stored in a waste bottle until disposal. Organic solvents will also be stored until disposal.

3.1.2 Disposal of aqueous liquids shall consist of neutralization of pH followed by solidification of remaining liquid with absorbent material (kitty litter etc.). The bottle and solid will then be discarded with normal trash.

3.1.3 Extracted plant material, test tubes, used empty vials, and TLC plates are placed in the disposable glass containers. Once these containers are full, they are stored until the next scheduled drug evidence burn, where they will be destroyed.

3.1.4 Solid (powder) samples can be either washed down the drain or placed in the liquid (aqueous) waste bottle.

3.1.5 Since the amount of a sample used is recorded in the final report (section 2.1.5) no further documentation will be required.

3.2.0 Controlled Substance Standard Destruction. For the purpose of this section, a standard is defined as any controlled substance used as a reference for confirmatory analysis. Standards will be obtained from commercial or governmental sources (Sigma, Supelco, DEA).

3.2.1 When a standard needs to be destroyed, i.e. past the expiration date, contamination, or degradation etc., then the standard will be stored until the next scheduled drug burn and destroyed there. Two criminalists will witness the removal of the standards from the laboratory and fill out any necessary paperwork required by the agency conducting the drug burn. The laboratory standard log will indicate when the standard was destroyed. Any DEA forms will also be filled out and turned over to the proper authorities.

3.2.2 If a standard is accidentally destroyed in the laboratory, spilled etc. it should be witnessed by a second criminalist and both individuals should sign, and date the standard log.

4.0.0 Old Analytical Methods

There are numerous analytical or extraction methods that at one time were used in the Forensic Service laboratory system but because of being replaced by newer technology, or the infrequency of analysis, are no longer performed on a routine basis. These methods do not warrant new (year 2000) written SOP's. If these methods are used, it is to be noted in the case file. Standard QA/QC procedures, including blanks and standards, should be followed when using these methods. The written SOP's, if they exist, of these methods shall be archived at each laboratory. The following list includes some, but by no means all, of the methods that may still have limited use.

d vs. dl-Methamphetamine determination using microcrystalline tests. Modern Microcrystal Tests for Drugs by C.Fulton 1969. Chapter XVII
Mescaline extraction from Peyote. DEA BNDD Manual. Page 78 through 80.

5.0.0 Sampling Rules

Since not all samples are required to be analyzed in a given case, the following guidelines should be used to help the analyst determine which samples will be tested.

- 5.0.1 A felony charge has priority over a misdemeanor. Example: a gram of cocaine found in a suspects pocket will be tested while a gram of marijuana found in the same pocket may not be.
- 5.0.2 A misdemeanor is treated equally to a felony if it is closer to the suspect or is the probable cause for a subsequent search. Example: A gram of marijuana found in a suspects pocket would be analyzed in addition to a gram of cocaine found in the suspects car.
- 5.0.3 If several samples, of different appearance, are submitted as one piece of evidence then each is analyzed to determine the presence of controlled substances. Example: two plastic bags are found on a suspect. One contains a tan powder and the other contains a white powder. Each powder would be tested. Plant materials do not fall under this rule, see 5.0.1 .
- 5.0.4 The analyst will always strive to provide evidence supporting the highest charge, i.e. trafficking, manufacturing, delivery vs. felony possession vs. misdemeanor possession.
- 5.1.0 When only a trace level of sample is present, every effort will be made to use less than one half of the sample. If it is necessary to use the entire sample then any extracts, left over liquids, or residues will be returned to the evidence envelope. It will be estimated on the report how much of the sample was used.
- 5.2.0 Multiple samples.
 - 5.2.1 For less than trafficking amounts. (See appendix) A number of samples equal to the square root of the total number of samples will be analyzed. Fractional square roots will always be rounded up to the next whole number. Example: If you have five samples, then the square root of five is 2.2, so you would analyze three of the five samples. The report will state the total number of samples, the sample weight of the number actually analyzed, the findings, and the amount used.

- 5.2.2 For trafficking amounts. **ALL** samples will be weighed and screened, up to each appropriate trafficking level. Then a square root of that number of samples will be confirmed analytically. Example: Forty balloons come in, each with about 0.1g of suspected heroin. The analyst will weigh out enough to get to the first trafficking level, 2.0 g, say twenty-one balloons. We will screen all twenty-one, and then analyze a total of five of the samples.
- 5.2.3 Pills. After a reference library check, if a pill case needs to be confirmed, a composite of the square root of the total number of pills is analyzed. Example: One hundred pills with identical markings are identified in the Logo Index as morphine. Ten of the pills would be ground up, mixed, and the resulting powder analyzed.

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