

SUPPLEMENTAL DOCUMENT SD-5  
FOR SWGDRUG RECOMMENDATIONS  
Reporting Examples

Introduction:

This document presents examples of report writing that incorporate SWGDRUG recommendations (i.e. Part IVA Section 9.2 Report Writing, Part IIIA Section 6 Reporting and Part IVC Section 5 Reporting of uncertainty). These examples are designed to assist laboratories in producing reports that capture required information in an accurate, clear and objective manner. They are meant to be illustrative, not exclusive.

It is recognized that factors such as jurisdictional requirements, laboratory information management systems and customer needs will affect the composition and format of reports. As such these reports are merely intended to be representative of how a laboratory drug report may appear.

Laboratories may report additional information that is not included in these examples.

<Laboratory Name>  
<Location>

Report of Laboratory Examination  
Laboratory Case Number <Lab#-XXXXXXX>

Submitting Agency: <Name>  
<Address>

Date of Evidence Submission: July 4, 2011  
Date of Report Preparation: July 25, 2011

Items Submitted:

- Item 1: One brick-shaped package of compressed white powder
- Item 2: 978 paper packets containing a brown powder
- Item 3: 53 round, red tablets marked "Sudafed"
- Item 4: One three-neck round-bottom flask containing residue
- Item 5: One plastic bag containing compressed plant material

Results and Conclusions:

- Item 1: Powder was analyzed and found to contain Cocaine HCl. Net Weight: 1024.6 grams  $\pm$  1.2 grams (95% confidence level). Tests/Techniques: weight determination, Gas Chromatography/Mass Spectrometry (GC/MS), Fourier Transform Infrared Spectroscopy (FTIR).
- Item 2: Powder from 28 packets was analyzed utilizing a hypergeometric sampling plan resulting in a 95% confidence level that at least 90% of the packets contain Heroin (salt form undetermined). Weight: (Net weight of packets tested) 0.266 gram  $\pm$  0.002 gram (95% confidence level); (Calculated total net weight) 29.0  $\pm$  1.8 grams (95% confidence level). Purity (calculated as base): Samples from 10 packets were combined, homogenized and were determined to be 32%  $\pm$  1.9% (95% confidence level). Tests/Techniques: weight determination, High Performance Liquid Chromatography (HPLC), GC/MS, FTIR.
- Item 3: One tablet was analyzed and found to contain Pseudoephedrine HCl. Tests/Techniques: pharmaceutical identifiers, FTIR.

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Item 4: Residue was analyzed and found to contain Pseudoephedrine or Ephedrine. Tests/Techniques: Gas Chromatography/Flame Ionization Detector (GC/FID), GC/MS.

Item 5: Plant material was analyzed and identified as Marijuana. Net Weight: 28.45 grams  $\pm$  0.09 gram (95% confidence level). Tests/Techniques: weight determination, microscopic examination, color test, Thin Layer Chromatography (TLC).

Analyst: \_\_\_\_\_  
Jane Q. Chemist

Date: \_\_\_\_\_

End of Report

<Laboratory Name>  
<Location>

Report of Laboratory Examination  
Laboratory Case Number <Lab#-XXXXXXX>

Submitting Agency: <Name>  
<Address>

Date of Evidence Submission: July 4, 2011  
Date of Report Preparation: July 25, 2011

Items Submitted:

- Item 1: One brick-shaped package of compressed white powder
- Item 2: Numerous paper packets containing a brown powder
- Item 3: Several round, red tablets marked "Sudafed"
- Item 4: One three-neck round-bottom flask containing residue
- Item 5: One plastic bag containing compressed plant material

Results and Conclusions:

Item	Substance	Net Weight/Quantity	Purity	Tests/Techniques
1	Cocaine HCl	1024.6 grams ± 1.2 grams	n/a	weight, GC/MS, FTIR
2	Heroin (salt form undetermined)	29.0 grams ± 1.8 gram	32.0% ± 1.9% (calculated as base)	weight, HPLC, GC/MS, FTIR
3	Pseudoephedrine HCl (1 tablet only)	53 tablets	n/a	pharmaceutical identifiers, FTIR
4	Pseudoephedrine or Ephedrine (salt form undetermined)	n/a	n/a	GC/FID, GC/MS
5	Marijuana	28.45 grams ± 0.09 gram	n/a	weight, microscopic examination, color test, TLC

Lab#-XXXXXXX

Remarks:

Items 1, 2 and 5: The uncertainties of all weights and purity determinations were reported at a 95% confidence level.

Item 2: Using the hypergeometric sampling plan, twenty-eight packets were analyzed resulting in a 95% confidence that at least 90% of the 978 packets contain heroin. The net weight reported was determined from weighing the contents of nine individual packages. For the purity determination, samples from nine packets were combined, homogenized and were determined to be  $32\% \pm 1.9\%$  (95% confidence level). Based on the reported net weight and purity determination, the amount of pure drug is calculated to be 9.2 grams  $\pm$  0.7 gram.

Item 3: The 53 tablets were the same size, shape, color, and labeled with the same markings. One tablet was selected for analysis.

Item 4: Due to the limited sample size, a technique was not available in laboratory to distinguish between pseudoephedrine and ephedrine.

Abbreviations:

n/a = not applicable

GC/MS = Gas Chromatography/Mass Spectrometry

FTIR = Fourier Transform Infrared Spectroscopy

HPLC = High Performance Liquid Chromatography

GC/FID = Gas Chromatography/Flame Ionization Detector

TLC = Thin Layer Chromatography

Analyst: \_\_\_\_\_  
John Q. Chemist

Date: \_\_\_\_\_