

## Review Form

Which Docket is being reviewed? (please underline)

**Titles:** NIOSH Manual of Analytical Methods (NMAM)

- 9106: *Methamphetamine and Illicit Drugs, Precursors, and Adulterants on Wipes by Liquid-Liquid Extraction (NIOSH-176)*
- 9109: *Methamphetamine and Illicit Drugs, Precursors, and Adulterants on Wipes by Solid Phase Extraction (NIOSH-177)*
- 0911: *Methamphetamine on Wipes by Liquid Chromatography-Mass Spectrometry-SIM (NIOSH-178)*.

Anticipated Publication: NIOSH Manual of Analytical Methods (NMAM), 5<sup>th</sup> Edition

Return by: September 30, 2009

Return to: Dr. W. Gregory Lotz, Director, Division of Applied Research and Technology,  
Mailstop R-2, NIOSH, 4676 Columbia Parkway, Cincinnati, OH 45226, or email at  
[wlotz@cdc.gov](mailto:wlotz@cdc.gov).

YES NO  
(explain below)

- |  |     |     |
|--|-----|-----|
| 1. Does the Backup Data Report explain the problem and summarize relevant literature adequately? | X   | ___ |
| 2. Is the information in the Method and Backup Data Report technically accurate?                 | X   | ___ |
| 3. Are there any recommendations concerning organization of the documents?                       | ___ | X   |
| 4. Are there any changes or corrections needed in the Backup Data Report?                        | X   | ___ |
| 5. Are there any changes needed in the Method?   | ___ | X   |
| 6. In general, is the Method and Backup Data Report satisfactory?                                | X   | ___ |
| 7. What is your recommendation for this Method as now written? (Check One):                      |     |     |
| a. Approve for publication/dissemination   | ___ | ___ |
| b. Approve after modification (please describe)  | X   | ___ |
| c. Do not approve (please describe)  | ___ | ___ |

**DETAILED COMMENTS:**      Check here if a separate sheet is attached      X

#### METHOD 9109:

My comments on the method itself are suggestions for consideration, I believe the method can be published as-is but these suggestions may make the method easier to follow.

- 1) On the first page the "SHIPMENT:" requirements do not include the use of a cooler and ice although several areas within the method suggest refrigeration of wipe samples soon after collection. I think the method should be written to include shipping samples (or transporting samples) in a cooler with bagged ice and custody seals to be consistent with the recommendation to refrigerate and protect samples from possible tampering.
- 2) Page 2 of 33 in "SOLUTIONS:" step 8 – Why not write "0.3N hydrochloric acid in methanol: Dilute 2.5 mL conc. hydrochloric acid in 97.5 mL methanol." Or "0.3N hydrochloric acid in methanol: Dilute 2.5 mL conc. hydrochloric acid in enough methanol to make 100mL."
- 3) Page 4 of 33 - #10 – A field blank sample rate of 10% seems excessive. Consider suggesting "...no less than 5%, or one per batch, or 1 for each set of different equipment used (one for each lot of solvent and wipes)."
- 4) Page 16 of 33 – Table 5: This table does not indicate which solvent was used along with the cotton gauze and whether substituting with another solvent changes the stability.

#### Backup Data Report for Method 9109

- 1) Page 5 of 82: Last sentence of first paragraph has 2 typos – "wsip" should be "wipe" and "prcedures" should be "procedures".