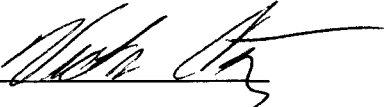
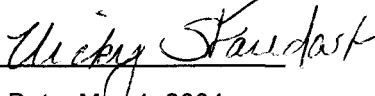


Dermal Face/Neck Wipe Samples

Chapter 8: MATRIX SAMPLES
AHETF-8.C.3.

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1.0 PURPOSE AND SCOPE

- 1.1 This Standard Operating Procedure (SOP) describes procedures for collecting pesticide residues from workers' face/neck during the Agricultural Handlers Exposure Task Force (AHETF) worker exposure studies.
- 1.2 This SOP was revised to clarify the number of layers each wipe/pad should have in sections 2.1.a and 3.1.

2.0 EQUIPMENT REQUIRED

- 2.1 The following materials are required for collecting dermal face/neck samples:
 - a. 100% cotton gauze (8 layers, 4" x 4"/10cm x 10cm sponges)
 - b. Anionic detergent solution (Aerosol[®] OT - sodium dioctyl sulfosuccinate).
 - c. Syringe or pipette
 - d. Disposable gloves (*i.e.*, latex)
 - e. Aluminum foil
 - f. Resealable bags or glass jars with Teflon-lined lids

- g. Cooler with dry ice or a freezer

3.0 SAMPLING PROCEDURE

- 3.1 The field personnel collecting samples will wear clean, disposable gloves while collecting these dermal samples. (Note: some packaging may contain two sponges; check to make sure each sponge is 8 layers)
- 3.2 Dispense approximately 4 mL of the detergent solution (0.01% Aerosol® OT) on the gauze sponge with the syringe or pipette (or other appropriate means of moistening the sponge).
- 3.3 Thoroughly wipe the test subject's face/neck (front & back) with the moistened sponge.
- 3.4 Repeat steps 3.2 and 3.3 again, for a total of two dermal wipes per sample. Wrap both sponges in aluminum foil (only if using a sealable bag) and place in the prelabelled bag otherwise place both wipes in a prelabelled jar, close the top, and place in frozen storage.

4.0 SAMPLING INTERVALS

- 4.1 Prior to the exposure replicate, one dermal face/neck wipe sample will be collected from each worker and the wipes discarded.
- 4.2 One dermal face/neck wipe sample will be collected prior to eating.
- 4.3 After the replicate is completed, one dermal face/neck wipe sample will be collected from each worker after the hand wash sample is collected per SOP 8.B. and before removal of whole body dosimeters. The wipes will be combined with the samples collected prior to eating, if applicable. If more than two samples (4 wipes) are in a sample bag or jar; the laboratory must be notified as to the total number in the container.

5.0 FIELD STORAGE

- 5.1 Place samples collected during the study in the field in a cooler with dry ice or portable freezer until processed and placed into frozen storage for shipping at the end of the monitoring day (or as soon as practical). If dry ice is not available, the Study Director must be notified before sample collection and other suitable storage conditions must be noted in the raw data.