

# NEBRASKA STATE PATROL CRIME LABORATORY

## INSTRUCTIONS FOR COLLECTING PRIMER GUNSHOT RESIDUE (GSR)

(READ ALL INSTRUCTIONS BEFORE USING KIT)

If you have questions concerning the use of this kit, contact the NSP Trace Section at 402-471-8950.

### NOTE

- A) In control test firings, it has been shown that the concentration of gunshot residue significantly declines on living subjects after approximately 8 hours. In view of these findings, if more than 8 hours have passed since the shooting, it is recommended that samples taken more than 8 hours after firing not be submitted for analysis.
- B) Allow kit to reach room temperature before using.
- C) When the cap is removed from clear plastic vials containing the SEM stubs, the adhesive surface is exposed and care must be taken not to drop the stub or contaminate the collection surface by allowing the surface to come in contact with an object other than the area that is to be sampled. (See Figure 1).
- D) Heavily soiled or bloody areas should be avoided if possible.
- E) When pressing the stubs on the questioned areas, use enough pressure to cause a mild indentation on the surface of the subject's hand.
- F) Do not fingerprint a subject before collecting GSR samples.

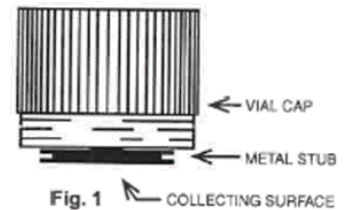


Fig. 1

**STEP 1** Fill out all information requested on the enclosed Gunshot Residue Analysis Information Form.

**STEP 2** Put on the disposable gloves provided in this kit. **Do not substitute with other gloves! Put on fresh gloves for each subject if performing collections on multiple subjects.**

**STEP 3** **RIGHT HAND:**

- A) Carefully remove the clear protective cover from the cap on the vial labeled RIGHT HAND.
- B) While holding the vial cap, press (dab) the black adhesive collection surface onto the subject's right hand until the areas show below in Figure 2 have been covered. Start with the web area including index finger & thumb, back of the hand, and finish with the right hand palm.
- C) After sampling the right hand, replace the protective cover on the RIGHT HAND vial cap.

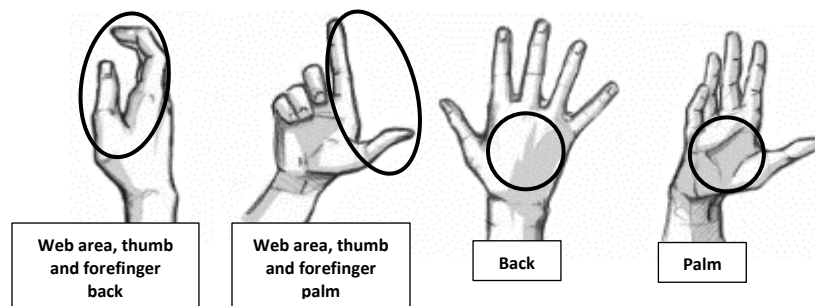


Fig. 2

**STEP 4** **LEFT HAND:**

Repeat the procedure described in Step 3 for the left hand, using the vial labeled LEFT HAND.

### FINAL INSTRUCTIONS

- A) Fill out all information requested on the GSR Analysis Information Form and on the front of the kit envelope.
- B) Return completed GSR Analysis Information Form and capped vials to the kit.
- C) Do not put disposable gloves in kit.
- D) Moisten kit envelope flap, then seal envelope. Affix enclosed Police Evidence Seal where indicated, then initial seal.
- E) Mail or hand deliver sealed kit as soon as possible to the Nebraska State Patrol Crime Laboratory for analysis. (If mailed, package the sealed kit in an appropriate container to prevent damage in transit.)