
TECHNICAL INFORMATION

Atomic Absorption Analysis Test Kit (AAA)

Catalog No. AAA100

INTRODUCTION

Most ammunition primers contain two elements not often found in the environment—antimony and barium. Finding these elements on the hand or hands of a suspect is presumptive evidence that the subject recently discharged a firearm. Traces of copper and lead are also present when a weapon is discharged and may be found on a suspect's hands as well.

CAUTIONS

- Before using this kit, consult the appropriate Material Safety Data Sheets (MSDS) found on our website at www.sirchie.com/support.
- This kit contains a 5% nitric acid solution. Avoid eye contact.



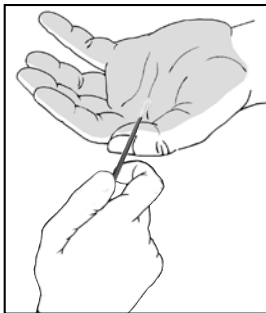
- Wear protective gloves and protective eyewear. Wash hands thoroughly prior to putting on gloves.
- Avoid contamination of the suspect's hands and the collection swabs. Hold the subject's arm above the wrist with free hand during collection. An officer who has recently fired a weapon should not collect the sample.

PROCEDURE

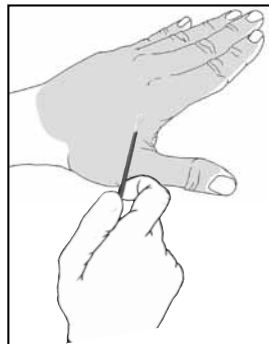
1. Thoroughly wash hands prior to putting on the gloves and performing evidence collection. *Avoid touching the subject's hands with your own during the residue collection procedure to eliminate possible contamination of your gloves by residues that may be present on the subject's hands.*
2. Remove the plastic cover from the 5% NITRIC ACID DROPPER.
3. Remove the swabs from the vial labeled LEFT PALM being careful not to touch the cotton tip. Moisten each cotton tip with 2-3 drops of 5% Nitric Acid. Using both swabs, THOROUGHLY swab the subject's LEFT PALM and replace the swabs in the vial.
4. Repeat step 3 with the vials marked LEFT BACK, RIGHT BACK, and RIGHT PALM.
5. Moisten each swab in the vial marked CONTROL with 2-3 drops of 5% Nitric Acid, and reseal the swabs in the vial.



- If a cartridge case is available, moisten the swab in the CARTRIDGE CASE VIAL with 2-3 drops of the 5% Nitric Acid solution, swab the interior of the casing, and reseal the swab in the vial.
- Fill in the test data section on the kit label, seal the kit, and forward it to the appropriate laboratory for analysis.



Collection from palm of left hand.



Collection from back of left hand.

TEST KIT CONTENTS

- 1- KCP123 Polyethylene Dispenser, 5% Nitric Acid with Controlled Flow Applicator and Molded Protective Cap, 3ml
- 6- AAA1001-AAA1006 Vials, Open End, Contaminant-Free with 12mm Polypropylene Closures, with Polyethylene Specimen Swabs, 2.5" Long
- 1- EIL021 Police Seal Warning Label
- 1- SF00761 Latex, Powder Free Glove Pair
- 1- KCP120 Case, Molded Styrene; Dimensions: 4.625" x 3.5" x .875"

