

## **PROCEDURES FOR THE PREPARATION OF STANDARDS USED IN GUNSHOT RESIDUE ANALYSIS**

### **Preparation of 5% Nitric Acid**

\*\*Note: this procedure should be done under a fume hood wearing safety goggles and gloves.

1. Using thoroughly cleaned glassware add 800mL of deionized water into a 1000mL graduated cylinder, then pipette 50mL of concentrated nitric acid (optima pure) into the graduated cylinder, finely add 150mL of deionized water.

### **Preparation of Barium, Antimony, Lead Standard**

1. Using thoroughly cleaned glassware, add 200mL of 5% nitric acid into a 1000mL volumetric flask, then pipette 40uL of 1000ug/mL of barium standard into the volumetric flask, then pipette 100uL of 1000ug/mL of antimony standard into the volumetric flask, then pipette 100uL of 1000ug/mL of lead standard into the volumetric flask, next fill the volumetric flask to volume with 5% nitric acid.

\*\*Note: all glassware should be thoroughly cleaned after preparation of standards.