

LABORATORY SERVICES BUREAU		
Document: Firearms Evidence Procedures	Policy Number: 1310	Revision: 4
Subject: FA-SOP-21 Kastle-Meyer Phenolphthalein Presumptive Blood Test	Approved: Hamilton, Danny	
PHOENIX POLICE DEPARTMENT	Effective: 10/4/2017 11:26:56 AM	Page 1 of 1

**1. KASTLE-MEYER PHENOLPHTHALEIN PRESUMPTIVE BLOOD TEST**

- A. The presence of blood on an object is indicated by the catalytic oxidation-reduction reaction of Phenolphthalein.
- B. The reagents will be tested using both positive and negative controls prior to testing any evidence samples.
  - (1) A known blood standard will be used to establish that the chemical sensitivity and the color developed is sufficient.
  - (2) A negative control will be used to establish the absence of any peroxidase activity in any materials used in the test.
- C. Moisten a cotton swab or filter paper with distilled water.
- D. Gently rub a section of the suspected stain with the moistened area of the swab or filter paper.
- E. Add one drop of the tested Phenolphthalein reagent to the swab or filter paper.
- F. Observe the test area to determine that no pink color develops.
- G. Add one drop of the 3% H<sub>2</sub>O<sub>2</sub> solution to the area previously covered by the Phenolphthalein reagent.
- H. Observe the test area - a rapid pink colored reaction indicates the presence of blood.