

DRUG CHEMISTRY SECTION TECHNICAL PROCEDURE MANUAL		
Procedure A-10	Preliminary Tests Silver Nitrate Reagent	
Effective Date:	November 20, 2006	Page 1 of 2

Name of Procedure:

Preliminary Tests
Silver Nitrate Reagent

Suggested Uses:

The Silver Nitrate reagent consists of a solution of silver nitrate and water. This reagent forms a precipitate with Halide ions.

Apparatus Needed to Perform Procedure Including Preparation of Reagent:

Fume hood
Gloves
Eye protection
Laboratory coat
Pipet with bulb
Graduated cylinder
50ml beaker
Glass stirring rod
Silver Nitrate
Water
Funnel
Reagent bottle
Porcelain spot plate
Spatula
Culture tube (6 X 50mm)

Formula for Preparing Reagent:

1. Weigh out 1 gram of silver nitrate.
2. Dissolve in 20 milliliters of water.
3. Pour solution into a reagent bottle.
4. Properly label reagent bottle.

DRUG CHEMISTRY SECTION TECHNICAL PROCEDURE MANUAL		
Procedure A-10	Preliminary Tests Silver Nitrate Reagent	
Effective Date:	November 20, 2006	Page 2 of 2

Quality Control:

A quality control check of this reagent will be performed using a known standard of sodium chloride and following the application procedure listed below.

Expiration Date of Chemical Reagent:

No expiration date. Reagents need to be properly contained in a sealed container and stored in a cool place.

Application of Procedure on Evidence:

1. Place approximately 0.1 milligram sample in a culture tube (6 X 50mm) with a spatula.
2. Dissolve the sample in 1-2 drops of distilled water.
3. Add 1-2 drops of silver nitrate solution.
4. Observe for the formation of a precipitate.
5. Record results.

Safety Concerns:

Always wear eye protection and laboratory coat when preparing this reagent. A laboratory coat should be worn when using this reagent for color tests.

Literature References:

Butler, William P., **Methods of Analysis**, IRS Publication #341, 1966, p. 137.