Drug Chemistry Section
Drug Chemistry Procedure Manual
Effective Date: September 1, 1996

Name of Procedure:

Extractions and Separations
Separation of Cocaine Base and Procaine Base

Suggested Uses:

This procedure is used to separate cocaine base and procaine base.

Apparatus Needed to Perform Procedure Including Preparation of Reagent:

Fume hood
Eye protection
Gloves
Laboratory coat
Hexane
Methylene Chloride
Test tube
Pipets, glass, disposable
Pipet bulb
Vortex mixer
Sodium Sulfate, anhydrous
Filter paper
Small beaker
Heat source

<u>Application of Procedure on Evidence</u>:

- 1. Crush 20-30 milligrams of sample and place in test tube.
- 2. Add 2 milliliters hexane to tube and vortex approximately two minutes.
- 3. Allow layers to separate and residue to settle to the bottom.
- 4. Decant hexane to second test tube.
- 5. Add approximately 10 milliliters deionized water to hexane.
- 6. Vortex approximately two minutes.

Drug Chemistry Section
Drug Chemistry Procedure Manual
Effective Date: September 1, 1996

Application of Procedure on Evidence (continued):

- 7. Remove hexane layer and dry through sodium sulfate in filter paper.
- 8. Evaporate hexane over moderate heat to obtain sample.

Safety Concerns:

Keep top of test tubes pointed away from face or covered while vortexing to avoid splashing in eyes or face.

Other:

If infrared of procaine is desired, extract the water solution with approximately 25 milliliters of methylene chloride and dry through sodium sulfate in filter paper.

<u>Literature References</u>:

Kerr, K., "A Simple Procedure for Separating Cocaine Base from Procaine Base", MICROGRAM, Vol. XXIII, NO. 5, MAY 1990, pp. 93-94.