Document Title: Takayama Reagent QC
Controlled: Yes, with red stamp present
Controlled By: Quality Manager

Prepared By: _____ Date: _____

Approved By: _____ Date: _____

A. PURPOSE:

To prepare the reagent for the confirmatory crystal test for blood and to perform quality control on the prepared reagent.

B. RESPONSIBILITY:

Forensic Science Examiner 1 and 2 in the Forensic Biology Section. Ordering information is maintained in a log book in the Forensic Biology Section.

C. SAFETY:

Use appropriate measures for the proper handling of pyridine and sodium hydroxide according to SOP-GL-2 (Safety Manual) and the Material Safety Data Sheets.

D. PROCEDURE:

1. Materials:
   a. Sodium hydroxide (10% w/v) 5ml
   b. Pyridine 5ml
   c. Glucose (5g/5ml, heat to dissolve) 5ml
   d. Distilled water 10ml

2. Procedure:
   a. Mix all materials together and place in a brown dropper bottle.

   b. Test each new batch of reagent before use according to SOP-FB-08 (Confirmatory Test for Blood) and the Takayama Reagent Log Sheet. Record the required information.

   c. If the appropriate results are not obtained, discard the reagent, review the procedure and make new reagent.

   d. If the reagent is suitable for use, record the reagent, lot # (date of preparation) and examiner's initials on the bottle and store in the refrigerator.

   e. Discard after one (1) year.

E. REFERENCES:

1. Takayama, M. " A Method for Identifying Blood by Hemachromogen Crystalization" Kokka Igakkai Zasshi 306 : 15-33 (issue); 463-481 (cumulative),(1912) 15.

2. Metropolitan Police Forensic Science Laboratory. Biology Methods Manual. 1978, pp. 2-90 to 2-91.

3. SOP-GL-2 (Safety Manual).

4. Material Safety Data Sheets.