## FB SOP-07 Whole Blood Sample Preservation

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Approved by Director: Dr. Guy Vallaro

# WHOLE BLOOD SAMPLE PRESERVATION

## 7.1 PURPOSE

To preserve whole blood samples for further analysis and/or long term storage.

# 7.2 RESPONSIBILITY

Forensic Science Examiners from the Division of Scientific Services who have been trained in the discipline of whole blood sample preservation according to FB SOP-26 (Training Manual and Checklist).

#### **7.3 SAFETY**

Use appropriate measures for the proper handling of a biohazardous material according to GL-2 (Safety Manual).

#### 7.4 **DEFINITIONS**

A. FTA: Fast Technology for Analysis of Nucleic Acids

B. EDTA: Ethylenediaminetetraacetic Acid

C. PTT: Purple Top Tube

D. RTT: Red Top Tube

#### 7.5 PROCEDURE

# **7.5.1: Materials**

- A. FTA Micro cards with provided foil pouches
- B. Centrifuge tubes
- C. Micropipet and tips
- D. Wooden sticks
- E. Desiccant packets
- F. Appropriate disinfecting solution

#### 7.5.2: Procedures

- A. Record all written information on the appropriate Quality Record Worksheet.
- B. Label the card with the Laboratory ID#, item #, donor name, date, initials of examiner and the type of tube (PTT, RTT).
- C. Label the foil pouch with the Laboratory ID#, item #, donor name and type of tube.
- D. Prior to sample removal:
  - 1. For samples collected in purple top tubes (EDTA) or other tubes containing anticoagulant, thoroughly mix blood.

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- 2. For samples collected in red-top tubes (no anticoagulant), break up the blood clot with wooden sticks.
- E. Remove a maximum of 125μl of the whole blood with a micropipet and place on an FTA card, making the stain as concentrated as possible.
  - 1. Air dry the bloodstain card in the designated cabinet.
  - 2. Clean the micropipet after each use with the appropriate disinfecting solution described in FB SOP-21 (General Chemical and Reagent QC), followed by ethanol.
  - 3. After drying, place the card in the labeled foil pouch with a desiccant packet. Seal the pouch and initial the seal.
- F. Create the bloodstain in LIMS and print out a barcode. Place the barcode on the pouch.

Transfer and store the bloodstain in the "FTA Blood Storage" location.

- G. When necessary, aliquot approximately 125ul of whole blood into a labeled centrifuge tube, create in LIMS and store in the freezer.
- H. For OCME bloods submitted with additional autopsy samples, refer to FB SOP-06 (Autopsy Sample Preservation).

# 7.5.3: Suggested Report Statement

A stain was made from a portion of item # [ ] (known blood sample).

## 7.6 REFERENCES

- A. Whatman FTA cards provided Technical and Protocol Information sheet
- B. GL-2 (Safety Manual)