Amido Black Fischer 98

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1 INTRODUCTION /SCOPE

Amido Black (Fischer 98) is used by FBI Laboratory Friction Ridge Discipline personnel to develop latent prints and enhance visible prints that have been deposited in blood on non-porous items.

2 STANDARDS AND CONTROLS

See Processing Overview (FRD-300).

3 LIMITATIONS

The process cannot be used on semi-porous and porous surfaces.

4 EQUIPMENT

- Distilled water
- Water (for rinse)
- Naphthol Blue Black (dye content ≥85%)
- 5-Sulfosalicylic Acid (purity ≥99%)
- Formic Acid (concentrated)
- Sodium Carbonate
- Tween® 20
- N-dodecylamine Acetate
- Glacial Acetic Acid

5 PROCEDURE

5.1 Solution Preparation

Personnel will prepare the stock and working solutions as follows: [Alternative amounts of the solutions may be prepared, provided the same ratio of chemicals mixed is retained.]

5.1.1 Tween® 20 stock solution

A. Combine:
   - n-Dodecylamine Acetate - 3 g
   - Tween® 20 - 4 g
   - Distilled water - 1000 mL

B. Stir until all chemicals dissolve.

5.1.2 Amido Black Fischer 98 working solution

A. Combine:
   - Naphthol Blue Black - 3 g
   - Glacial Acetic Acid - 50 mL
   - Distilled water - 500 mL
   - 5-Sulfosalicylic Acid - 20 g

- Sodium Carbonate - 3 g
- Formic Acid - 50 mL
- Tween® 20 stock solution - 125 mL

B. Stir solution until Naphthol Blue Black dissolves (approximately 30 minutes).
C. Raise final volume to approximately 1000 mL with distilled water.
D. Solution can be used immediately with acceptable results but works best if mixed and stored in a bottle several days before use.

5.2 Application

A. Personnel will complete the following steps in order:
    1. Apply Amido Black Fischer 98 working solution to the item
    2. Leave working solution on the item for 3 to 5 minutes.
    3. Rinse with water.
    4. Allow the item to dry.
B. Working solution may be reapplied as needed using steps 1 through 4 above.
    1. Personnel must be cautious of overdevelopment and destruction of background.
C. Capture appropriate friction ridge detail as applicable (digitally or photographically).

5.3 Storage

Amido Black Fischer 98 working solution and Tween® 20 stock solution may be stored in any type of laboratory accepted receptacle.

5.4 Shelf Life

Amido Black Fischer 98 working solution and Tween® 20 stock solution have an indefinite shelf life provided the reagent checks are satisfactory.

6 SAFETY

See FBI Laboratory Safety Manual for appropriate information.

7 REVISION HISTORY

Revision	Issued	Changes
04	08/17/2022	Reformatted Section 5.1.2.1 – Separated Tween® 20 Solution Section 5.1.2.2 – Added full list for Alternate Developer Solution Section 5.2 – Reworded tissue method Section 5.3 – Added Tween® 20 Solution Section 5.4 – Added Tween® 20 Solution
05	06/03/2024	References to Photo Flo 600 removed throughout. Section 1 – Scope updated for substrate. Section 3 – Limitations updated for substrate and background information removed. Section 5.1 – solutions described as stock and working and standard developer solution removed with only Tween® 20 stock solution.

Revision	Issued	Changes
		Section 5.2 – specific application options removed.