

# Alternate Black Powder

## Table of Contents

<b>1</b>	<b>INTRODUCTION/SCOPE</b> .....	<b>2</b>
<b>2</b>	<b>STANDARDS AND CONTROLS</b> .....	<b>2</b>
<b>3</b>	<b>LIMITATIONS</b> .....	<b>2</b>
<b>4</b>	<b>EQUIPMENT</b> .....	<b>2</b>
<b>5</b>	<b>PROCEDURE</b> .....	<b>2</b>
5.1	Solution Preparation .....	2
5.1.1	Liqui-Nox® stock solution .....	2
5.1.2	Alternate Black Powder working solution.....	2
5.2	Application .....	2
5.3	Storage .....	3
5.4	Shelf Life.....	3
<b>6</b>	<b>SAFETY</b> .....	<b>3</b>
<b>7</b>	<b>REVISION HISTORY</b> .....	<b>3</b>

# Alternate Black Powder

## 1 INTRODUCTION/SCOPE

Alternate Black Powder is used by FBI Laboratory Friction Ridge Discipline personnel to develop latent prints on adhesive surfaces.

## 2 STANDARDS AND CONTROLS

See *Processing Overview* ([FRD-300](#)).

## 3 LIMITATIONS

None

## 4 EQUIPMENT

- Applicator(s)
- Water
- Lightning® Black Powder
- Liqui-Nox®

## 5 PROCEDURE

### 5.1 Solution Preparation

Personnel will prepare stock and working solutions as follows:

#### 5.1.1 Liqui-Nox® stock solution

Combine Liqui-Nox® and water in equal amounts and mix.

#### 5.1.2 Alternate Black Powder working solution

- A. Place Lightning® Black Powder in suitable container.
- B. Add Liqui-Nox® stock solution and stir until the consistency of shaving cream is achieved.

### 5.2 Application

Personnel will complete the following steps in order:

- A. Apply the Alternate Black Powder working solution to the adhesive surface.
- B. Let item sit for a minimum of 30 seconds.
- C. Rinse with a slow stream of water.
- D. Allow to dry.
- E. Solution may be reapplied as needed using steps A through D.
  1. Personnel must be cautious of background overdevelopment.
- F. Digital capture and photography, as applicable.

### 5.3 Storage

- A. Liqui-Nox® stock solution may be stored in any type of laboratory accepted receptacle.
- B. Alternate Black Powder working solution may be stored in the mixing container.

### 5.4 Shelf Life

Liqui-Nox® stock solution and Alternate Black Powder working solution have an indefinite shelf life provided the reagent check is satisfactory.

## 6 SAFETY

See [FBI Laboratory Safety Manual](#) for appropriate information.

## 7 REVISION HISTORY

Revision	Issued	Changes
02	7/15/2021	Replace Latent Print Units with Friction Ridge Discipline. Minor wording changes. Streamline equipment list. Re-organization and re-numbering of sections. Section 4, added Preamble reference.
03	6/15/2022	Format updated