



# Blood Search, Identification and Enhancement

With DNA technology, forensic scientists can characterize biological evidence by our DNA, pinpointing with more accuracy who was at a crime scene or near a victim. This ability greatly enhances the significance this type of evidence plays in a criminal investigation and the importance for the crime scene investigator to:

- Search:
  - o Luminol
  - o BLUESTAR
  - o Lumiscene
- Identify:
  - o Phenolphthalein
  - o Leuco-Malachite
  - o Hemastix®
  - o Hexagon Obti
  - o RSID Test Kits
- Enhance:
  - o Acid Yellow
  - o Amido Black
  - o Coomassie Blue
  - o Hungarian Red
  - o Leuco Crystal Violet
- Document:
  - o Recognizing and documenting bloodstain pattern evidence
  - o Blood Spatter Kit
  - o Blood Spatter Documentation Kit
  - o Bloodstain Evidence Template



## Bloodstain Pattern Documentation Course



This class introduces the student to the nature and value of bloodstain pattern evidence, teaching how to recognize basic pattern types, and demonstrates through practical exercise the roadmapping method of documenting bloodstain pattern evidence.



For more information about this and all other training courses, visit [www.sirchie.com](http://www.sirchie.com) or call us at (800) 356-7311.



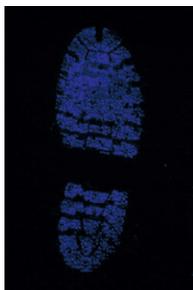
**Pricing information:**  
For current pricing visit  
[www.sirchie.com](http://www.sirchie.com), or  
call (800) 356-7311

## Presumptive Blood Search

### Luminol Blood Reagent

The advantages of using Luminol to find minute traces of blood are numerous:

- Non-destructive to subsequent DNA profiling
- Relatively safe compound if used according to directions
- Sensitive to dilutions as high as 100,000:1
- Ideal reagent for “aged” or invisible blood stains. In fact, the older the stain, the brighter the reaction.



It's easier and faster to find the presence of blood with Luminol, especially if an area has been cleaned up. Luminol is a chemiluminescent substance that uses the peroxidase-like activity of the heme portion of hemoglobin. It produces a bluish-white light that can only be viewed and photographed in total darkness.

### Luminol Invisible Blood Reagent with Spray Head

This luminol reagent comes with a spray head, making it easier to spray on suspected areas. Solutions are available in three sizes: simply mix and apply. Also available in powder form.



No. LUMINOL4



No. LUMINOL4A8



No. LUMINOL16

**No. LUMINOL4** Luminol Reagent, 4 oz. bottle, 2 ea.

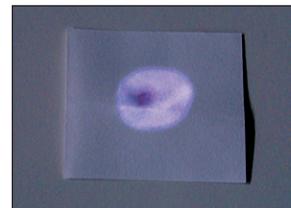
**No. LUMINOL8** Luminol Reagent, 8 oz. bottle, 2 ea.

**No. LUMINOL16** Luminol Reagent, 16 oz. bottle, 1 ea.

**No. LUMINOL4A8** Luminol Powder (makes 8 ea., 4 oz. solutions)

### Luminol Dischaps Set

This reagent is already mixed in a tube and can be easily applied to the suspected substance.



**No. DCB300**

**Luminol Dischaps, 6 ea.**

### LumaVision Luminol Companion Illuminator Kits

To search for trace evidence, there should be no light in the area. LumaVision uses red light, which lets you easily see the process of luminol application in the dark. Our basic kit includes a LumaVision light with head mount, batteries, and a carrying case. Our master kit adds two 8 oz. bottles of Luminol.



**No. LVL1000**

**LumaVision Master Kit**

**No. LVL2000**

**LumaVision Basic Kit**

### Bluestar® Forensic Kit

Bluestar is similar to Luminol but it doesn't require total darkness to see the luminescence. It's extremely sensitive to the detection of bloodstains even if traces have been washed off, with or without detergent. Additionally, Bluestar doesn't alter the DNA in suspect blood stains so DNA and ABO typing can be tested later in laboratories.



No. FRA00001

Bluestar Forensic Kit

### Bluestar® Forensic Mini Kit

Use this mini kit when searching a limited area or small objects to quickly identify blood presence. It's easily ready and more economical for a quick search.



No. FRA00002

Bluestar Forensic Mini Kit

### Bluestar® Forensic Tablets

Easy to prepare and to carry around, these tablets let investigators create 4 oz. of solution for testing. Available in 4 to 8 application packages.



No. FRA00003

Bluestar Forensic Tablets, 4 applications

No. FRA00004

Bluestar Forensic Tablets, 8 applications

### Bluestar® Forensic Magnum

The Forensic Magnum is three times more powerful than Bluestar tablets. You will need this when searching for minute blood particles; it will detect even microscopic droplets on an aggressor's clothing or garments and objects that have been washed.



No. FRA00005

Bluestar Forensic Magnum

### Hexagon Obti

Sometimes there will be bloodstains that you'll want to test to determine if it is of human origin first. A positive result indicates a strong likelihood that the bloodstain is human, later confirmed or denied by a lab. Available in 24 test or 6 test packages.



No. FRA00006

Hexagon Obti, 24 tests

No. FRA00007

Hexagon Obti, 6 tests

### Lumiscene Advanced Latent Blood Search Solution

Lumiscene is a great choice to help find evidence and protect DNA integrity. Lumiscene gives good results and contains the lowest percentage of peroxide chemistry available. This protects DNA from degradation during processing. It's easy to use and doesn't require measuring.

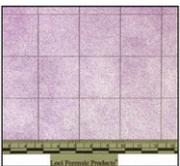


**No. LSCENE01 Lumiscene Solution, 500 ml**

### CSAIR Forensic Air Compressor

Investigators should know that the blood search application is just as important as the solution. Irreversible damage to the bloodstain pattern and dilution of the sample can occur, if the solution coating is uneven, making DNA testing difficult or impossible. This compressor system is designed for blood search solutions. It produces a continuous, contaminant-free air misting through its carbon filter. Features are:

- Minimum use of the blood search application, reducing the risk of damage to the DNA.
- Continuous pressure with a 32ft hose allows for large areas to be tested
- Easy to clean and quiet operation
- Universal plug adapter kit available



Lumiscene distribution with CSAIR—continuous, ultra-fine misting results in light, even application.

**No. CSAIR01 CSAIR Forensic Air Compressor**

### Presumptive Blood Identification Products

#### Phenolphthalein Reagent

This reagent gives a confirmatory blood test in laboratories and requires little preparation. Similar to Kastle-Meyer test.



**No. DCB101 Phenolphthalein Reagent, 4 oz. bottle**

#### Phenolphthalein Dischaps Set

Many field investigators consider this test as one of the most reliable presumptive tests for the presence of blood. The Dischaps packaging virtually eliminates the possibility of contamination of chemical reagents and dramatically increases shelf life. A pink stain will appear in seconds when there is blood. Similar to Kastle-Meyer test.



**No. DCB100 Phenolphthalein Dischaps, 6 ea.**

#### Phenolphthalein Blood Test Belt Kit

This convenient belt test keeps the Dischaps set close at hand for blood testing. Includes supplies for three tests. Similar to Kastle-Meyer test.



**No. PHENOL100 Phenolphthalein Blood Test Belt Kit**

#### Leuco-Malachite Dischaps Set

Leuco-Malachite has a greater sensitivity than Phenolphthalein and therefore, is more valuable for subsequent testing after you've used Luminol, Bluestar, or Lumiscene. An intense blue/green reaction will appear in three seconds at the presumptive confirmation of blood.



**No. DCB200 Leuco-Malachite Dischaps, 6 ea.**

**Pricing information:**  
For current pricing visit  
[www.sirchie.com](http://www.sirchie.com), or  
call (800) 356-7311



## Blood ID Reagent Kit

This Blood Identification Kit utilizes Leuco-Malachite (McPhail's Reagent) to provide a field test for the presumptive identification of blood. Each test consists of two chemical reagent ampoules contained in a rugged disposable pouch. A blue/green color reaction indicates the presumptive presence of blood (a positive reaction can occur in as little as one part per million). Includes 10 tests, filter paper and distilled water. Use our Hexagon Obti test to presumptively identify *human* blood.



No. PBID200

Blood ID Reagent Kit

## Hemastix® Blood ID Reagent Strips

These easy-to-use strips detect the peroxide-like activity of hemoglobin in a substance. They have a special blood reagent material at the tip. Once rubbed across a moistened stain or swab, the reagent tip will change color. A chart will tell you the level of hemoglobin in the sample.



Take a photograph of the strip by the substance to document the reaction and retain the strip as presumptive evidence.

No. HEM50

Hemastix Blood ID Reagent Strips, 50 ea.

## Investigator's Field Blood Test Kit

This kit combines the three most efficient and effective reagents for testing of blood. It features Luminol, Leuco-Malachite, and Phenolphthalein, packaged in the easy-to-use DISCHAPS sets.



No. DCB400

Investigator's Field Blood Test Kit

## Master Field and Lab Blood Test Kit

You'll be fully equipped for presumptive testing for blood with this kit. It contains all the essential equipment for testing in the lab or in the field and the reagents are in pre-measured quantities for optimal concentration and sensitivity.



No. MBT288

Master Field and Lab Blood Test Kit

## Latent Blood Detection Kit for Detection of Blood Prints

In the most violent crimes, blood prints can be found on the weapon, floor, furniture, and victim. In many instances, blood prints are not visible because of background color or the weakness of the blood print. To make these prints visible, this kit has a sensitive method for detecting and developing blood prints on surfaces. Latent blood prints developed through these reagents are very clear and chemically stable.



No. BT001

Latent Blood Detection Kit

## RSID Blood Detection Field Test Kit

Investigators should conduct this presumptive test in the field as a test of human blood. It's specific for the human Glycophorin A Antigen and no cross-reaction has been observed with human saliva, semen, urine, breast milk, or amniotic fluid. Tests are completed in 10 minutes but the result is fleeting. Photograph results as soon as possible.



No. IDBL100

RSID Blood Detection Field Test Kit, 10 tests



**Often Bought Together:**  
Indicates items often purchased in conjunction with other items.

## Blood Evidence Enhancement

### Aqueous Leuco Crystal Violet

Use this ideal compound when developing visible or invisible blood traces, fingerprints, and footprints on virtually any surface.



Carpet with suspected blood print (left) and after treatment with Aqueous Leuco Crystal Violet (right).



No. LV509

Aqueous Leuco Crystal Violet

### Amido Black

Amido Black is used for the enhancement of blood to create contrast and detail for photographic documentation. Sensitive to proteins found in blood, Amido Black will not develop a normal perspiration-based print. Must be mixed into solution and before use.



Amido Black should only be used after you collect physiological samples because it will interfere with blood analysis and DNA typing.



No. LV501

Amido Black, 25 gram

No. LV5011

Amido Black, 100 gram

### Amido Black Spray

Amido Black solution in a convenient pump spray, eliminating the need for mixing. The spray form simplifies its use at the crime scene and is the perfect choice for recovering weak or practically invisible bloodstain impressions.

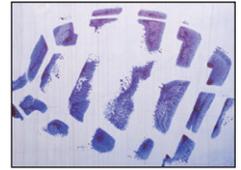


No. LV501L

Amido Black Spray, 8 oz. Pump

### Coomassie Blue

Like Amido Black, Coomassie Blue is sensitive to proteins found in blood, and is used for enhancing contrast and detail for photographic documentation. Coomassie Blue can be applied until maximum contrast is achieved. **Must be mixed into a solution before use.**



Should only be used after you collect physiological samples because it will interfere with blood analysis and DNA typing.

No. LV512

Coomassie Blue, 25 gram

### Hungarian Red Spray

This aqueous solution will fluoresce under a strong green alternate light source, making blood stain impressions on busy backgrounds easy to see.



No. LV503

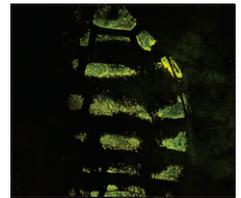
Hungarian Red Spray, 4 oz.

No. LV5031

Hungarian Red Spray, 16 oz.

### Acid Yellow 7 Bloodstain Enhancement Reagent Spray

Use this solution to eliminate dark or patterned backgrounds when other enhancement stains are not practical. Simply stain the blood prints or patterns with the solution and they will become visible under UV and Blue light (400-460nm) with an orange filter. The reagent reacts with proteins in the blood.



No. LV517L

Acid Yellow 7 Spray, 8 oz.

### Blood Fixative Spray

Use this Blood Fixative before enhancement to prevent disruption or running of the blood.



Blood should be dry and fixed before enhancing it with Amido Black or other common stains.



No. LV513

Blood Fixative Spray, 8 oz.





Portable, flexible surveillance solutions you can use anywhere, anytime.  
Covert or overt, manned or unmanned, and easily deployable in **any situation**.  
*You can keep your eyes on any scene from wherever you need to, from wherever you are.*

Capture every detail.

