

SER: Training - Identification of Bloodstains

Topics of study The trainee will study:

- presumptive tests
 - Kastle-Meyer
 - Hemastix
- confirmatory tests
 - Takayama
 - Hematrace
- species determination (optional)
 - Ouchterlony

The trainee may study the following presumptive chemical tests for visualization described in the *Crime Scene Manual*:

- Fluorescein
 - Luminol
-

Knowledge The trainee will read appropriate sections from the following references:

- Culliford, B.J., 1971, *The Examination and Typing of Bloodstains in the Crime Laboratory*.
- Gaensslen, R.E., 1983, *Sourcebook in Forensic Serology, Immunology, and Biochemistry*.

It is recommended that trainees review relevant literature located in the Serology/DNA Laboratory and laboratory library.

The trainee will review the technical procedures for the testing of blood.

Continued on next page

SER: Training - Identification of Bloodstains, Continued

Practical exercises

Using presumptive, confirmatory, and optional species tests, the trainee will examine:

- bloodstains from different people
- bloodstains which have been subjected to environmental insults
- blood from different species
- human blood which has been serially diluted
- other body fluids

Using presumptive tests, the trainee will also examine:

- chemical oxidants
 - fruit and vegetable stains
 - potential contaminants (for example, soil)
-

Assessment

The trainee will perform a competency test using the procedures in this section to identify bloodstains.

This competency test may be given as part of a more comprehensive test upon completion of all body fluid identification training.
