

DNA Analyst Training Laboratory Training Manual

Protocol 2.05
Semen Stain Identification: Kernechtrot
Picoindigocarmine Stain (KPIC) (Identification)



This laboratory protocol (or part thereof) has been provided as an example of a laboratory SOP, courtesy of the Illinois State Police. It has been included for training and example purposes only.

PRESIDENT'S
DNA
INITIATIVE



6. Add Solution #2 to slide and allow to stand 3 seconds.
7. Rinse with ethanol or methanol.
8. All nuclear material will stain a red or red-purple color. Spermatozoa will appear as differently-stained red bodies, somewhat oval in shape with a slight pink cast. The background materials will be stained blue or green. The acrosomal cap will be stained less intensely red than the nuclear portion of the sperm head. If present, the midpiece and tail sections will be stained green or blue-green.
9. Grade the abundance of spermatozoa on the smear from 1+ to 4+ at 200x magnification.
 - 1+ few; difficult to locate
 - 2+ some in some fields
 - 3+ some in many fields; easy to locate
 - 4+ many in most fields
10. Spermatozoa must be verified at 1000x magnification

[Return to Laboratory Training Manual User Guide](#)