



**XEMA**

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# FORENSIC TESTS

## **X221K XEMAtest Human Sperm**

Prostate-specific antigen, or PSA (precallicrein 3) is a glycoprotein synthesized mostly in the prostate gland and secreted in seminal fluid. PSA concentration in seminal fluid varies from 0.2 to 3.0 mg/ml. Being a protease, PSA serves to liquefy seminal fluid. Due to low concentrations of PSA in vaginal excretions (0.4-0.9 ng/ml) and in rectum, PSA is a very good marker of human seminal fluid which allows to detect its subtle quantities during criminal investigations of sexual crimes. XEMAtest Human Sperm allows to detect sperm even if no spermatozoids are present in a sample.

|                       |                         |                     |                    |                        |           |
|-----------------------|-------------------------|---------------------|--------------------|------------------------|-----------|
| <b>Sample type:</b>   | Smears, spots on tissue | <b>Incubation:</b>  | 5-10', +18...+25°C | <b>Control sample:</b> | no        |
| <b>Sample volume:</b> | 3-4 drops (100-120 µl)  | <b>Calibrators:</b> | no                 | <b>Shelf life:</b>     | 24 months |
| <b>Sensitivity:</b>   | 2 ng/ml                 |                     |                    |                        |           |

## **X320K XEMAtest Human Blood**

Hemoglobin is a complex iron-containing protein which acts as an oxygen carrier which delivers oxygen to tissues. In *Vertebrata*, it is contained in erythrocytes, while in most *Invertebrata* it is dissolved in blood and may be also present in other tissues.

During criminal investigations, it may be necessary to confirm human origin of blood found in a sample. There are several methods to do this, but only immunochemical method provides a quick result. XEMAtest Human Blood detects human blood with high sensitivity and specificity and allows to run the test just on the spot without any additional sample preparation.

|                       |   |                     |                    |                        |           |
|-----------------------|---|---------------------|--------------------|------------------------|-----------|
| <b>Sample type:</b>   | Smears, spots on tissue                       | <b>Incubation:</b>  | 5-10', +18...+25°C | <b>Control sample:</b> | no        |
| <b>Sample volume:</b> | 20-40 µl                                      | <b>Calibrators:</b> | no                 | <b>Shelf life:</b>     | 24 months |
| <b>Sensitivity:</b>   | 10 ppm (liquid sample)<br>20 ppm (dry sample) |                     |                    |                        |           |

### **On request:**

**XEMAtest Human Urine**

**XEMAtest Human Excretions**



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