

## INFORMATION AND TECHNICAL SUPPORT

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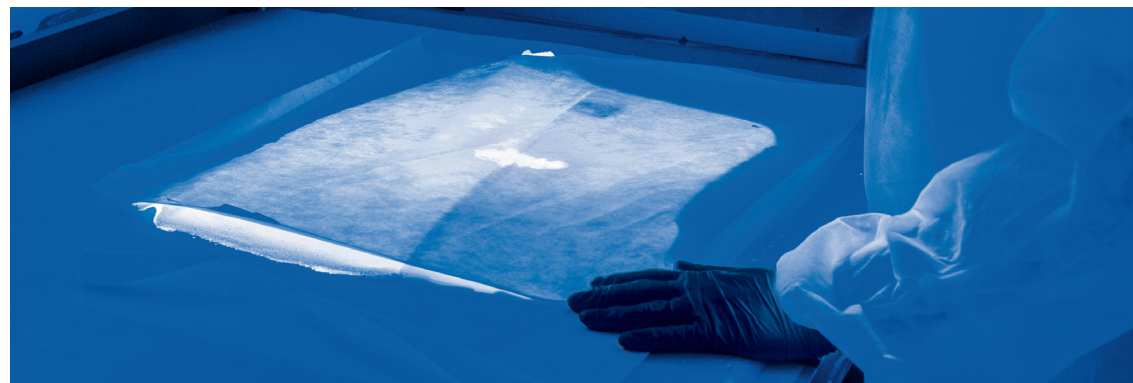
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# STK<sup>®</sup> Sperm Tracker



## SYMBOL DEFINITION



Catalogue references:  
**AXO-STK-9240, AXO-STK-9210**  
et **AXO-STK-A3-20**



Keep away from light



Batch number



Expiry date



Recommended storage  
temperature



See User Guide



Do not use if packaging is  
damaged



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## DIRECTIONS FOR USE



**KEEP AWAY FROM LIGHT**

## 01. PRODUCT PURPOSE

STK Sperm Tracker is a presumptive test for the detection of human male semen.

## 02. PRINCIPLE OF THE TEST

- STK Sperm Tracker shows as a paper impregnated with reagents. Reagents react specifically with Acid Phosphatase found in human semen
- Presence of this enzyme on the studied evidence creates a reaction with STK Sperm Tracker
- The revealed specific stain can be visualized using a UV light
- STK Sperm Tracker does not damage DNA and does not alter potential DNA extraction. It allows simple sample collection directly on the evidence in order to perform genetic analysis of the sample.

## 03. PROVIDED MATERIAL

- STK Sperm Tracker paper: roll or sheet.
- STK Sperm Tracker paper has one side with a laminated surface (reading side), and one blotter side impregnated with reagents (analysis side).
- Small paper imperfection can sometimes be seen on paper surface. It does not alter test performances.

## 04. NECESSARY MATERIALS

- Press (recommended)
- Sprayer with demineralized water
- Portable UV light 365-366nm with visible light filter (e.g.: Vilber VL 6.L or CAMAG UV lamp 4). Be aware that each lamp is different from one another (power, background noise). It is advised to check the detection performances with positive control sample.

## 05. PROTOCOL

### Beforehand: Personal Protective Equipment

- It is advised to wear appropriate laboratory protective equipment (gloves, facemask, hat and lab coat) to prevent from contaminating STK Sperm Tracker paper
- It is mandatory to wear UV-protective glasses when using UV light.

### Analysis:

1. Cut a piece of STK Sperm Tracker the size needed to fit the evidence
2. Using the spray, moisten generously the absorbing side of STK Sperm Tracker with demineralized water (approximately 150 to 200 ml/m<sup>2</sup> i.e. ~0.5 to 0.6 fl. oz./yd<sup>2</sup>)
3. Cover evidence to be studied with STK Sperm Tracker: moisten absorbing side against the evidence and reading side up

4. Place under a press, STK Sperm Tracker on top with the **laminated reading side up**
5. Press for 3 minutes. A longer press is possible, 10 minutes for instance, but may increase the risk to generate spurious signals. Evidence and STK Sperm Tracker must not move during pressing and when opening the press (STK Sperm Tracker can easily be pinned)
6. Put UV protective glasses on and switch on the UV light
7. In the dark, make the revelation by positioning UV light approximately 50 cm (~20 inches) above the laminated reading side.
8. See the result (see 06. Results Interpretation, hereafter).
9. Dispose the piece of STK Sperm paper (see 07. Disposal hereafter)

## 06. RESULTS INTERPRETATION

Once analysis is completed according to Chapter 05 protocol:

- Presumptive test is **positive**: a blue fluorescent signal is detected with the UV light
- Presumptive test is **negative**: no fluorescent signal is detected with the UV light.

## 07. DISPOSAL

Used STK Sperm Tracker must be discarded in an appropriate container (see Waste Management Policy).

## 08. CONTRAINDICATIONS

- Adding chemical or biological products not mentioned in the protocol may alter test effectiveness
- The exposure of the kit to physical changes such as exposure to sunlight or extreme temperatures or pressures, will lead to product deterioration
- A signal close to a positive result may occur in the presence of residual bleach, oxidizers, household detergents or mold. These weaker signals are easily recognizable and cannot be interpreted as a positive signal by a trained operator.

## 09. CONDITIONS OF USE

### Keep away from light, and heat.

Storage must be at room temperature: between +14°C (+57°F) and +30°C (+86°F). If these value are exceeded, use a positive control test to check product performances.

### Storage before opening:

Expiry date will be found on product packaging. Do not use after expiry date.

### Storage after opening:

It is recommended to use the product within 3 months after opening.

Once wet, STK paper must be used rapidly and cannot be reused and must be discarded.