

SEMEN AND SPERM DETECTION INC.

1201 W. Airport Freeway, STE 251, Euless TX 76040
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(888) 875-7574 - Fax (800) 886-2148
<http://www.Semen-Detection.com>



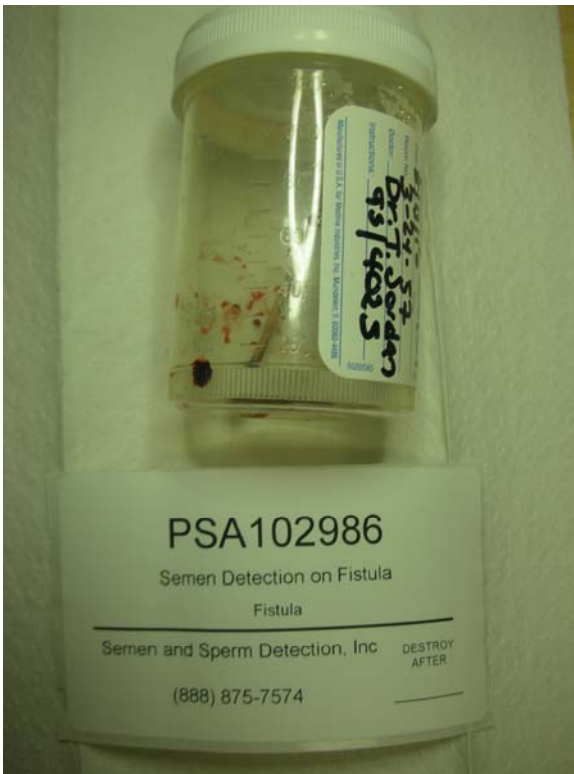
Analysis Report

Case # PSA102986

On 18 August 2010, FedEx (87146546#####) delivered to SSDI a box with a small Styrofoam cooler containing one 120 mL bottle and a cold gel pack. The item was logged in and testing was completed on 8/18/2010.

Evidence

The tested item was the contents of one 120 mL bottle containing a broken cotton swab on a wooden handle marked as follows: 8/13/10, Room No: 3-24-57, Doctor: Dr. T. J., Instructions: 95/4025. The accompanying paperwork identified the sample as "Fistula Fluid for PSA: Semen Detection".



Photograph 1 – Tested item



Photograph 2 – Proof of test

Analysis

A Prostate Specific Antigen (PSA) test was completed. The detection of the PSA on forensic samples is often helpful because it confirms the presence of semen even in samples that involve vasectomized or azoospermic individuals. The PSA is a glycoprotein produced by the prostate gland and secreted in seminal fluid at concentrations (from 2.0×10^5 to 5.5×10^6 ng/ml). The test is capable of detecting PSA in a concentration range of at least 2 ng/mL to 100 μ g/mL.

A test for the presence of human blood was conducted. The detection is based on the determination of human hemoglobin in the sample by a specific antigen/antibody reaction. The test is capable of detecting hemoglobin in a concentration range of at least 40 ng/mL to 500 μ g/mL.

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A total of 6 PSA tests were run, The fistula fluid was collected into a 1.7 mL microtube and vortexed with 600 μ L of Phosphate Buffered Saline (PBS). The collection was accomplished using 5 sterile cotton swabs in addition to the swab included in the 120 mL container. Each cotton swab was saturated with 75 μ L of PBS, therefore a total of 975 μ L of PBS was added. The microtube was vortexed and the swabs were centrifuged for 3 minutes each in a spin basket and the fluid was recombined into the original microtube. The 5 swabs used in the collection of the 120 mL container were combined into one microtube for storage.

Five hundred (500) μ L was removed from the upper surface and added to a separate microtube and tested (marked serum). Two hundred (200) μ L of fluid was then taken from the original microtube sample for test A. Two hundred (200) μ L of fluid was then taken from the original sample and diluted with 600 μ L of PBS and then 200 μ L of fluid was drawn off (after vortexing) for test B. Two hundred (200) μ L of fluid was then taken from the test B sample and diluted with 600 μ L of PBS and then 200 μ L of fluid was drawn off (after vortexing) for test C. Two hundred (200) μ L of fluid was then taken from the test C sample and diluted with 600 μ L of PBS and then 200 μ L of fluid was drawn off (after vortexing) for test D. Two hundred (200) μ L of fluid was then taken from the test D sample and diluted with 600 μ L of PBS and then 200 μ L of fluid was drawn off for test E (after vortexing) and 100 μ L was used for Hemoglobin test. Photograph 2 depicts the decreasing concentration to ensure coagulation and/or high dose hook effect is eliminated (potential false negative).

Results

All tests were negative for the presence of semen by PSA. The sample tested positive for human blood at the lowest concentration (dilution E). The original sample and proof of test will be held for 90 days then destroyed unless requested by the customer.

Conclusions

No PSA was detected in the sample.

A handwritten signature in black ink that reads "Steve Calvert". The signature is written in a cursive style. There is a faint, circular watermark in the background of the signature that says "FEDERAL BUREAU OF INVESTIGATION".

Steve Calvert
Forensic Scientist

Results to:
Piedmont Hospital
1968 Peachtree Rd, NW
Atlanta, GA 30309-1281

State of Texas, County of Tarrant

Before me, Steve Calvert, on this day personally appeared to me and presented his Texas drivers license to be the person whose name is subscribed to the foregoing instrument and acknowledged that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 19th day of August 2010.

Cynthia Salgado