

SEMEN AND SPERM DETECTION INC.

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Analysis Report

Case # PSA82252A-B

On 28 October 2008, FedEx (86462123####) delivered to SSDI an envelope containing two pairs of ladies panties in plastic bags. The items were logged in and testing was completed on 10/28/08.

Evidence

Item A is a tan (gold) thong without a manufacturers tag and was dated 9/1/08. Item B is a white thong manufactured by Maidenform, trade name "Luleh", size 6, RN27701, and was dated 9/29/08. UV long and short wave light confirmed the locations for both tested samples.



Photograph 1- Tested Item A



Photograph 2- Tested Item B

Analysis

A test for the presence of Acid Phosphatase (AP) was conducted. Acid phosphatase is an enzyme present in semen at concentrations of 20 to 400 times other body fluids. The presence of acid phosphatase is a presumptive test for the presence of semen and needs to be confirmed by DNA or the presence of a Prostate Specific Antigen (PSA).

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).

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A microscopic examination was completed. Microscopic examination is a presumptive test for the presence of sperm unless intact, non-degraded sperm are detected. Intact sperm are rarely visible after 4 days unless the sample was immediately frozen and properly stored.

A test for human salivary amylase (HSA), an enzyme found in human saliva was performed. This test will detect as little as 1 µl of saliva with no cross-reaction to blood, semen, urine, vaginal secretions or menstrual blood, however a low-level detection from breast milk and human fecal matter may be observed.

Results

Item A tested negative for the presence of semen by AP and PSA, and negative for sperm heads by microscopic examination. Item B tested positive for the presence of semen by AP and PSA, and negative for sperm heads by microscopic examination. Item A tested negative for human saliva and B tested positive. The following chart provides the comparative strengths of the results of each sample and the four tests (1 to 10 scale, 10 being the strongest outcome).

Item	Item Marking	PSA	AP	Sperm	HSA
A	Tan Thong 9/1/08	0	0	0	0
B	White Thong 9/29/08	10	10	0	3

Conclusions

Item A tested negative for the presence of semen and sperm. Item B tested positive for the presence of semen. No whole sperm heads were detected microscopically on Item B which may be attributed to the age or amount of the sample or the contributor could be vasectomized or azoospermic. Item A tested negative for human saliva and Item B tested positive. Item B was most likely worn immediately following intercourse. A successful DNA extraction for a male YPLEX profile on Item B is estimated above 95% and is not recommended for Item A. Results were emailed. The tested items and proof of tests will be held in freezer 1 for one year then destroyed.