

**Division of Forensic Science
State of Florida**

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Examination Requested: DNA

DR Number	2002-110789	Report Date	2/25/2002
Offense Type	Sexual Assault/Homicide	Page	1 of 3
Department	Police Department		
LSB Report #	02-0150-1	Approved By	A3884, A4093

Case Names Doe, Sandy (Victim)

Evidence Receipt Items #1, 2, 3, 4A, and 4B were received by Forensic Scientist, Jane Tyler on February 9, 2002 from Property.

<u>INVOICE-ITEM</u>	<u>ITEM DESCRIPTION</u>
1	Known blood sample from Sandy Doe (Victim)
2	Vaginal Swab from Sandy Doe (Victim)
3	Cigarette Butts
4A	Swab from Screwdriver Handle
4B	Swab from Screwdriver End

RESULTS

Human DNA was isolated from Items #1, 2, 3, 4A and 4B. The DNA was characterized using the Polymerase Chain Reaction (PCR) at amelogenin and the Short Tandem Repeat (STR) loci: D3S1358, vWA, FGA, D8S1179, D21S11, D18S51, D5S818, D13S317, D7S820, D16S539, TH01, TPOX and CSF1PO.

Locus\Item	Item#1 Sandy Doe	Item #2 Vaginal Swab (Epithelial fraction)	Item #2 Vaginal Swab (sperm fraction)	Item #3 Cigarette Butt
Amelogenin	X	X	XY	XY
D3S1358	14,16	14,16	15,17	15,17
vWA	16,18	16,18	14	14
FGA	22,23.2	22,23.2	22,24	22,24
D8S1179	13,17	13,17	11,14	11,14
D21S11	28,30.2	28,30.2	28,30	28,30
D18S51	14,16	14,16	INC	13,17
D5S818	11,13	11,13	11	11
D13S317	11	11	8,11	8,11
D7S820	9,10	9,10	9,11	9,11
D16S539	12,13	12,13	10,13	10,13
TH01	6,9.3	6,9.3	6,9.3	6,9.3
TPOX	9,11	9,11	8	8
CSF1PO	12	12	INC	10,11

*INC = Inconclusive results

Jane Tyler
Forensic Scientist

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RESULTS, continued

Locus\Item	Item#4A Screwdriver Handle	Item #4B Screwdriver End
Amelogenin	X	XY
D3S1358	14,16	14,15,17
vWA	16,18	14,17
FGA	22,23.2	18,22,24,26,2
D8S1179	13,17	8,11,14
D21S11	28,30.2	25,28,30,31
D18S51	14,16	13,17,21
D5S818	11,13	11
D13S317	11	8,11,12
D7S820	9,10	6,7,9,11
D16S539	12,13	10,13
TH01	6,9.3	6,9.3,10
TPOX	9,11	8,12
CSF1PO	12	10,11,14

*INC = Inconclusive results

CONCLUSIONS

A 13 locus DNA profile, consistent with a single male donor, was obtained from Item #3 (cigarette butt). This DNA profile is from an unidentified source (***unidentified source #1***).

An 11 locus DNA profile, consistent with a single male donor, was obtained from the sperm fraction of Item #2 (vaginal swab). Inconclusive results were obtained at two loci, D18S51 and CSF1PO. This DNA profile is consistent with the DNA profile obtained from Item #3 (cigarette butt), ***unidentified source #1***, at the following loci: D3S1358, vWA, FGA, D8S1179, D21S11, D5S818, D13S317, D7S820, D16S539, TH01, and TPOX.

A 13 locus DNA profile, consistent with a single female donor, was obtained from the epithelial fraction of Item #2 (vaginal swab). This DNA profile matches the DNA profile obtained from Item #1 (known reference standard from Sandy Doe-Victim).

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CONCLUSIONS, continued

A 13 locus DNA profile, consistent with a single female donor, was obtained from Item #4A (screwdriver handle). This DNA profile matches the DNA profile obtained from Item #1 (known reference standard from Sandy Doe-Victim).

A mixed DNA profile from at least two sources was obtained from Item #4B (screwdriver end). Assuming only two sources:

- Sandy Doe is excluded as a possible contributor to this mixed DNA profile.
- **Unidentified source #1** cannot be excluded as a possible contributor to this mixed DNA profile.

The DNA profile from the sperm fraction of Item #2 (vaginal swab) will be searched against the DNA profiles in the National DNA Identification System (NDIS) and any matches will be reported.

EVIDENCE DISPOSITION

At the conclusion of analysis, Items #1, #2, #3, #4A, and #4B were returned to the submitting agency.

Jane Tyler
Forensic Scientist