

19803

EXAMINATION:

Portions of the femur (Item DNA-1), the muscle tissue from Baby Doe (Item DNA-2), the muscle tissue from Jane Doe (Item DNA-3), and the tibia (Item DNA-4) were sampled for DNA extraction.

The root end of two of the hairs (Item 26A-1) was sampled for DNA extraction along with a portion of the adjacent shaft as substrate samples.

DNA was extracted from the bloodstain from Scott Peterson (Item 18A) and the oral swabs from Dennis Rocha (Item DR2) and Sharon Rocha (Item SR2).

The DNA extracts were used to analyze the gender marker amelogenin and thirteen short tandem repeat loci. The fourteen loci were amplified using the AmpFISTR Profiler Plus and COfiler PCR Amplification Kits and typed using the ABI Prism 310 Genetic Analyzer, a capillary electrophoresis instrument. Results are reported in the following table.

AmpFISTR Profiler Plus/COfiler Typing Results

ITEM # Description Locus	DNA-1 Femur from Baby Doe	DNA-2 Muscle tissue from Baby Doe	DNA-3 Muscle tissue from Jane Doe	DNA-4 Tibia from Jane Doe	DR2 Cheek swab from Dennis Rocha	SR2 Cheek swab from Sharon Rocha	18A Bloodstain from Scott Peterson
D3S1358	16,18	16,18	ND	14,16	15,16	14,14	16,18
VWA	19,19	19,19	16,19	16,19	15,16	18,19	15,19
FGA	19,21	19,21	ND	19,22	22,23	19,21	21,22
Amelogenin	X,Y	X,Y	X,X	X,X	X,Y	X,X	X,Y
D8S1179	12,13	12,13	13,13	13,13	11,13	13,13	10,12
D21S11	29,31.2	29,31.2	ND	29,30	29,30	29,29	29,31.2
D18S51	13,15	13,15	ND	12,15	15,17	13,16	13,16
D5S418	12,13	12,13	ND	12,12	11,12	12,12	12,13
D13S317	9,10	9,10	ND	10,12	12,13	8,10	9,11
D7S820	10,10	10,10	ND	10,10	9,10	10,13	9,10
D16S539	12,13	NT	ND	11,12	11,12	9,11	11,13
TH01	6,9	NT	ND	6,9	6,9.3	9,9.3	6,9.3
TPOX	8,9	NT	ND	8,8	8,8	8,8	9,10
CSF1PO	10,10	NT	ND	10,13	10,13	11,13	10,11

NT = Not Tested

ND = No alleles detected

The profile obtained from the tibia of Jane Doe (Item DNA-4) is consistent with coming from a biological child of Dennis Rocha and Sharon Rocha. Based on this same profile, the approximated parentage indices are as follows: 11 billion for African Americans, 1.9 billion for Caucasians, and 1.7 billion for Hispanics. In other words, for example, it is 1.9 billion times more likely to have a child with the profile detected in the tibia from Jane Doe if Dennis Rocha and Sharon Rocha are the biological parents than if a random Caucasian couple were the biological parents. A partial female profile consistent with the profile obtained from the tibia was obtained from the muscle tissue (Item DNA-2). No DNA was obtained from the hairs (Item 26A-1).

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The DNA extracts were used to analyze the gender marker amelogenin and thirteen short tandem repeat loci. The fourteen loci were amplified using the AmpF/STR Profiler Plus and COfiler PCR Amplification Kits and typed using the ABI Prism 310 Genetic Analyzer, a capillary electrophoresis instrument. Results are reported in the following table.

AmpF/STR Profiler Plus/COfiler Typing Results

ITEM # Description Locus	DNA-1 Femur from Baby Doe	DNA-2 Muscle tissue from Baby Doe	DNA-3 Muscle tissue from Jane Doe	DNA-4 Tibia from Jane Doe	DR2 Cheek swab from Dennis Rocha	SR2 Cheek swab from Sharon Rocha	18A Bloodstain from Scott Peterson
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FGA	19,21	19,21	ND	19,22	22,25	19,21	21,22
Amelogenin	X,Y	X,Y	X,X	X,X	X,Y	X,X	X,Y
					11,15	13,13	10,12

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D8S1179	12,13	12,13	13,15	13,15	11,15	13,13	10,12
D21S11	29,31.2	29,31.2	ND	29,30	29,30	29,29	29,31.2
D18S51	13,15	13,15	ND	12,15	15,17	12,16	13,16
D5S818	12,13	12,13	ND	12,12	11,12	12,12	12,13
D13S317	9,10	9,10	ND	10,12	12,13	8,10	9,11
D7S820	10,10	10,10	ND	10,10	9,10	10,13	9,10
D16S539	12,13	NT	ND	11,12	11,12	9,11	11,13
TH01	6,9	NT	ND	6,9	6,9.3	9,9.3	6,9.3
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D18S51	13,15	13,15	ND	12,15	15,17	12,16	13,16
D5S818	12,13	12,13	ND	12,12	11,12	12,12	12,13
D13S317	9,10	9,10	ND	10,12	12,13	8,10	9,11
D7S820	10,10	10,10	ND	10,10	9,10	10,13	9,10
D16S539	12,13	NT	ND	11,12	11,12	9,11	11,13
TH01	6,9	NT	ND	6,9	6,9,3	9,9,3	6,9,3
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D7S820	10,10	10,10	ND	10,10	9,10	10,13	9,10
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