

DNA profile from Reliagene Technologies

File Number: 7
Product Type: TEXT DOCUMENTS:External System Record
External Source: Other:Other
Source Reference: Missing Persons Unit
Brief Description: Attached document is from Reliagene Technologies detailing the Saliva sample from Auneliese Baumann (mother of Missing Person)
Reliagene ref No.s are #F-32360, Samples #03-15267 and #03-15268, Batch #050420.



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June 30, 2005

NSWPD Item: 62039637

ReliaGene Reference Numbers: File #F-32630, Samples #03-15267 and #03-15268, Batch #050420

Examination and Results:

The techniques employed are extremely sensitive. These methods are available for inspection (if necessary) at ReliaGene Technologies Inc. Controls were used at each step of the process to provide confidence that the DNA sequence obtained relates to the time under test and has not arisen from contamination during the analysis. An inorganic method of extraction was used followed by the Polymerase Chain Reaction to amplify DNA in the regions examined.

Listing of Mitochondrial DNA results:

Results obtained using the BigDye Terminator DNA Sequencing kit available from ABI.

The following list details the results obtained in this case, relates then to the mitochondrial DNA sequence first published in the scientific journal 'Nature' by Anderson et. Al. in 1981 and identifies the differences to that sequence. The number refers to the position of the bases along the DNA chain.

The results of the test show the chemical base at each link in the DNA chain, ie the sequence of bases. Occasionally the test will fail to produce a result from some of the bases. To indicate how complete the sequence results are, the following convention has been adopted. Where only one of the two tests has produced a result for the base at a particular position, the result is recorded as in lower case. If neither test has produced a result at that position, the base is recorded as 'not determined'.

Saliva sample of Auneliese Baumann (mom of unknown victim), RG sample #03-15267

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Sequence obtained between bases 73-340 and 16024-16365

Differences to published sequence at positions:

73	G	16092	C
146	C	16224	C
152	C	16311	C
263	G		
315.1	C		

Saliva sample of Heirich Baumann (dad of unknown victim), RG sample #03-15268 - Not tested.

The remaining bases that were determined matched that published by Anderson. Positions marked as XXX.X indicate an additional base has been inserted at the position.

The results set out above refer to the testing procedure carried out between 14 April 2005 (evidence receipt date) and 30 June 2005. The bodily samples were tested with the same primers and in parallel with appropriate known controls. Fragment lengths and analysis were in accordance with scientifically accepted standards. I am satisfied that the results obtained have been correctly coded from the fragment and patterns and that they have been correctly transcribed from laboratory work notes. Evidence to be returned to NSW Police Department via courier.

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