

Decode a Lab Report

Directions:

1. Read through the example lab report on the following pages.
2. Write a brief summary of the information presented in the lab report. Explain what evidence was analyzed, what the objective of the analysis was and the results of the analysis.
3. Technical documents in forensic science, like lab reports, are stripped down to the most basic and significant parts.
4. In the margins of the example lab report, explain the importance of each element on the lab report. Be sure to consider the purpose, audience and author of the document when explaining each element.

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DIMONDALE SHERIFF'S DEPARTMENT
BUREAU OF INVESTIGATION
DNA ANALYSIS LABORATORY REPORT

FORENSIC BIOLOGY SECTION
3425 Denver Road
Dimondale, North Dakota
(689) 657-2294

File Number:	579-45698-1452-226	Case Number:	578921
Department:	Dimondale P.D. Homicide	Suspects:	Patrick Jones, Henry Earl
Investigator:	Det. James Holley	Victims:	June Dahlia
Offense:	Homicide		
Report Date:	December 23, 2015		

EVIDENCE SUBMITTED FOR DNA ANALYSIS

The following evidence was submitted by Dimondale P.D. on December 1, 2015 to undergo DNA analysis.

H132	Tooth brush belonging to JUNE DAHLIA
H133	Buccal swab reference sample from PATRICK JONES
H134	Buccal swab reference sample from HENRY EARL
H135	Section of stained carpet collected from scene (547 Linden)
H136	Swab from the fingernail scrapings/clippings of JUNE DAHLIA's left hand

DNA EXAMINATION

Amplification of extracted DNA from the above samples were performed using the Polymerase Chain Reaction (PCR) and profiled at thirteen Short Tandem Repeat (STR) loci (D3S1358, vWA, FGA, AMEL, D8S1179, D21S391, D5S818, D13S317, D7S820, D16S539, THO1, TPOX, CSF1PO) and the sex-determining marker Amelogenin (AMEL).

DNA ANALYSIS RESULTS

CONCLUSION

The DNA typing results from **H135** are consistent with belonging to one individual. This profile is consistent with JUNE

ID	D3S1358	vWA	FGA	AMEL	D8S1179	D21S818	D13S317	D7S820	D16S539	THO1	TPOX	CSF1PO
H132	15,16	16,19	22,23	XX	13,14	19,24	8,11	11,12	9,13	6,7	8,11	10,12
H133	16,17	14,18	22,24	XY	12,14	18,18	12,10	12,12	9,11	6,7	8,8	11,11
H134	15,17	17,19	22,25	XY	13,14	19,23	11,12	10,10	11,11	7,9,3	8,10	11,12
H135	15,16	16,19	22,23	XX	13,14	19,24	8,11	11,12	9,13	6,7	8,11	10,12
H136	16,17	14,18	22,24	XY	13,14	18,18	12,10	12,12	9,11	6,7	8,8	11,11

DAHLIA. PATRICK JONES and HENRY EARL are excluded as contributors to this profile.

The DNA typing results from H136 are consistent with being a mixture of two or more individuals. This profile can be separated into a major component profile consistent with PATRICK JONES and a minor contribution from JUNE DAHLIA. One additional allele indicates another possible trace contributor. Due to the limited genetic information available from the possible trace

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contributor, no conclusions regarding the possible trace contributor can be made. HENRY EARL is included in as a possible source of the trace contributor profile.

The DNA typing results obtained from H132, H133, and H136 will be transferred to CODIS (Combined DNA Index System) and searched against other DNA profiles on a regular basis. Should a match be generated, a notification will be sent.

PRESERVATION OF SAMPLES

The remaining portions of the above evidence and a portion of any remaining extracted DNA which may still exist are being preserved in the Dimondale Bureau of Investigation Crime Laboratory for any additional tests requested in the future.