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Blood Evidence and DNA

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2-3-1997

## Lab Report Sent from Dr. Mohammad Tahir to Terry Gilbert- 1997

Mohammad Tahir

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# INDIANAPOLIS-MARION COUNTY FORENSIC SERVICES AGENCY

## LABORATORY EXAMINATION REPORT

Date: February 3, 1997

Case No: 76629

To: Friedman and Gilbert  
Attorneys At Law  
1700 Shadeland Building,  
1370 Ontario Street  
Cleveland, Ohio 44113

Re: Richard Eberling  
Sam Sheppard  
Marilyn Sheppard

Attention: Terry Gilbert

A Federal Express box containing evidence was received from Cuyahoga County Coroner's Office on May 2, 1996.

Two Federal Express packages were received at different dates carrying envelopes written by Dr. Sheppard in 1943 to Marilyn from Cynthia Cooper on July 16, 1996 and September 12, 1996.

One package received from Sam Reese Sheppard containing a cut out stain from the death bed of Marilyn Sheppard on July 9, 1996.

**Results:**

Deoxyribonucleic Acid (DNA) from the above listed evidence was characterized through the Polymerase Chain Reaction (PCR) at the following genetic Loci:

ITEM	SAMPLE	ALLELES DETECTED					
		DQA1	LDLR	GYPA	HBGG	D7S8	Gc
E-5-S	Stamp from envelope #5	4.1, 2, 3, 1.2 4.2/4.3	AB	AB	AB	AB	BC
E-1-S	Stamp from envelope #1	4.1, 1.2, 3	AB	AB	AB	AB	BC
E-12-F	Flapper from envelope #12 from Richard Eberling	4.1, 4.1	B	AB	AB	AB	AB
	Richard Eberling's blood	4.1, 4.1	B	AB	AB	AB	AB
S B-4-U	Marilyn Sheppard's pulled head hairs	1.1, 1.3, 4.1, (1.2)*	AB	AB	AB	AB	BC
S	Stain from Marilyn Sheppard's bed sheet	1.1, 1.3, 4.1, 4.2/4.3, (1.2, 2, 3)*	AB	AB	AB	AB	ABC
S A-59-1	Vaginal smear from Marilyn Sheppard (sperm fraction)	4.1, 1.1, 1.3, (2, 3)*	AB	AB	ABC	AB	ABC
A-59-2	Vaginal smear from Marilyn Sheppard (sperm fraction)	4.1, 2, 3, 1.2	AB	AB	ABC	AB	ABC
B-4-n	Hairs from mattress of death bed (Marilyn Sheppard)	1.1, 1.3	AB	A	B	A	BC
b-3-b-1	Bloodstain from Sam Sheppard's trousers	4.1, 2, 3, 1.2	AB	AB	ABC	AB	ABC
3	Wood chip	4.1, 2, 3, 1.1, (1.2)*	AB	AB	ABC	AB	ABC

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## CONCLUSIONS:

Based on the Deoxyribonucleic Acid (DNA) DQ $\alpha$  and polymarker results, the DNA detected in item #3 (wood chip) is a mixture and no portion of DNA originated from Marilyn Sheppard. Richard Eberling being 4.1 homozygous at DQ $\alpha$  Locus cannot be excluded as a part donor of the DNA detected in item #3. However, Richard Eberling is not the contributor of 1.1, 2 and 3 alleles.

Based on Deoxyribonucleic Acid (DNA) DQ $\alpha$  and polymarker results, the DNA detected in item #b-3-b-1 (bloodstain from Sam Sheppard's Trousers) is a mixture and no portion of DNA originated from Marilyn Sheppard. Richard Eberling being 4.1 homozygous at DQ $\alpha$  Locus cannot be excluded as a partial contributor of the DNA detected in item #b-3-b-1. However, Richard Eberling is not the contributor of 2, 3 and 1.2 alleles.

Based on Deoxyribonucleic Acid (DNA) DQ $\alpha$  and polymarker results, the DNA detected in item #A-59-1 (vaginal smear) sperm fraction is a mixture. Richard Eberling being a 4.1 homozygous at DQ $\alpha$  Locus cannot be excluded as the part donor of the DNA present on the sperm fraction on the vaginal smear. However, he is not the contributor of 1.1, 1.3, 2 and 3 alleles. If alleles 1.1, 1.3 originated from Marilyn Sheppard, then he is not the contributor of 2 and 3 alleles.

Based on Deoxyribonucleic Acid (DNA) DQ $\alpha$  and polymarker results, the DNA detected in item #A-59-2 (vaginal smear) sperm fraction is a mixture. Richard Eberling being a 4.1 homozygous at DQ $\alpha$  Locus cannot be excluded as the part donor of the DNA present on the sperm fraction on the vaginal smear. However, he is not the contributor of 1.2, 2 and 3 alleles.

Several stamps were tested for DNA in the effort to obtain DNA profile from Dr. Sam Sheppard. Some of the stamps did not have enough DNA to be typed for profile. But some stamps produced the DNA profile of mixed nature. So no single DNA profile could be assigned to Sam Sheppard from the DNA recovered from the stamps presumed to have been licked by him in the year 1943.

Pulled head hairs from Marilyn Sheppard (B-4-U) were tested for DNA in the effort to obtain DNA profile of Marilyn Sheppard. DNA profile of mixed nature was obtained, so no single profile was assigned from those hairs to Marilyn Sheppard.

Hairs from the mattress item (#B-4-n) were tested for DNA in the effort to obtain DNA profile of Marilyn Sheppard. From this exhibit a clean two allele profile was obtained and used in this case as Marilyn Sheppard's profile.

A tissue slide from Marilyn Sheppard was also used for the same purpose to obtain Marilyn Sheppard's DNA profile without successful results.

DNA results for item #B-4-a (stain from porch) was typed with inconclusive results.

No conclusion could be drawn as to the inclusion or exclusion of Dr. Sam Sheppard since no sample was available, which could reasonably be considered to represent his DNA profile.

\* DNA alleles could be present, cannot be confirmed due to the low levels of activity.

Signature



Title: Forensic Scientist

Ident. No. T-1489

Mohammad A. Tahir, Ph.D.

Biology Unit Supervisor and DNA Technical Manager

Approved By:

MAT/th