

Cuyahoga County Regional Forensic Science Laboratory
11001 Cedar Avenue, Cleveland, OH 44106



DNA LABORATORY EXAMINATION REPORT

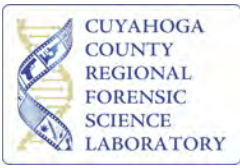
Report Date:	07/07/2022	Victim's Name:	Zachery Edwards Jr.
CCRFSL Case:	2022-000887	Agency Case:	2022-024387
Contact Person:	Detective Raymond Diaz	Submitting Agency:	CPD Homicide Unit
CCMEO Case:	IN2022-00237	Address:	1300 Ontario Street
Pathologist:	Dr. Antoine Wrice		Cleveland, OH 44113

Items 2, 3, 4, 5, 6, 7, 8, 9, 10.1, 10.2, 10.3, 11.1, 11.2, and 11.3 were transferred by Curtiss Jones of the Trace Evidence Unit on 1/28/2022.

Items 31 and 32 were received from Dr. Antoine Wrice of the Cuyahoga County Medical Examiners Office on 1/28/2022.

Items 36, 37, 38, and 39 were submitted by Detective Cindy Pivarnik of the CPD Homicide Unit on 2/1/2022.

<u>Item</u>	<u>Sub-Item</u>	<u>Description</u>
2		Swab from right hand fingernails of victim
3		Swab from left hand fingernails of victim
4		Swabs from fingers and thumb of right hand of victim
5		Swabs from the fingers of left hand of victim
6		Swabs from knuckles and palm of right hand of victim
7		Swabs from knuckles and palm of left hand of victim
8		Swabs from right wrist of victim
9		Swabs from left wrist of victim
	10.1	Swabs from lower right sleeve of jacket of victim
	10.2	Swabs from lower left sleeve of jacket of victim
	10.3	Swabs from upper anterior of jacket of victim
	11.1	Swabs from lower right sleeve of hooded sweatshirt of victim
	11.2	Swabs from the lower left sleeve of hooded sweatshirt of victim
	11.3	Swabs from the upper anterior of the hooded sweatshirt of victim
31		Buccal swabs from Zachery Edwards Jr.
32		Bloodstain card from Zachery Edwards Jr.
36		<i>Kitchen Knife with 5" Blade</i>
	36.1	Swabs of knife blade
	36.2	Swabs of knife handle
37		<i>Kitchen Knife with 7" Blade</i>
	37.1	Swabs of knife handle
38		<i>Wooden Club with Suspected Blood</i>
	38.1	Swabs of staining on piece of wood
	38.2	Swabs of unstained areas of piece of wood



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39 *Swabs of Suspected Blood*

If the evidence description is displayed in italics and/or quotation marks, it has been provided by the submitting agency.

DNA STR (Short Tandem Repeat) analysis:

DNA obtained from items 2, 3, 10.1, 10.2, 10.3, 11.1, 11.2, 11.3, 32, 36.2, 37.1, 38.1, 38.2, and 39 was characterized through the Polymerase Chain Reaction (PCR) at the genetic loci Amelogenin, D3S1358, D1S1656, D2S441, D10S1248, D13S317, PentaE, D16S539, D18S51, D2S1338, CSF1PO, PentaD, TH01, vWA, D21S11, D7S820, D5S818, TPOX, DYS391, D8S1179, D12S391, D19S433, FGA, and D22S1045 using the Promega PowerPlex Fusion amplification system.

Results and Conclusions:

The presumptive test indicated the presence of blood in items 2, 3, 10.1, 10.2, 10.3, 11.1, 11.2, 11.3, 38, and 39. No confirmatory testing was performed.

No blood was detected in item 37.

The examination for blood was inconclusive in item 36.

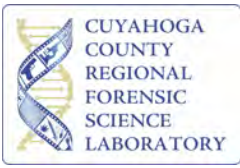
The DNA profile obtained from item 10.2 is a mixture. A likelihood ratio was calculated assuming item 10.2 contained DNA from two unknown contributors. Zachery Edwards Jr. (item 32) cannot be excluded as a contributor to this mixture.

The DNA profile obtained from item 36.2 is a single source of male origin. A likelihood ratio was calculated assuming item 36.2 contained DNA from one unknown contributor.

A match was identified between item 36.2 and Zachery Edwards Jr. This match is:

2.27 nonillion times more probable than a coincidental match to an unrelated African American person, 56.9 decillion times more probable than a coincidental match to an unrelated Caucasian person, and 461 nonillion times more probable than a coincidental match to an unrelated Hispanic person.

The DNA profile obtained from item 37.1 is a single source of male origin. A likelihood ratio was calculated assuming item 37.1 contained DNA from one unknown contributor.



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A match was identified between item 37.1 and Zachery Edwards Jr. This match is: 2.27 nonillion times more probable than a coincidental match to an unrelated African American person, 56.9 decillion times more probable than a coincidental match to an unrelated Caucasian person, and 461 nonillion times more probable than a coincidental match to an unrelated Hispanic person.

The DNA profile obtained from item 38.1 is a single source of male origin. A likelihood ratio was calculated assuming item 38.1 contained DNA from one unknown contributor.

A match was identified between item 38.1 and Zachery Edwards Jr. This match is: 2.27 nonillion times more probable than a coincidental match to an unrelated African American person, 56.9 decillion times more probable than a coincidental match to an unrelated Caucasian person, and 461 nonillion times more probable than a coincidental match to an unrelated Hispanic person.

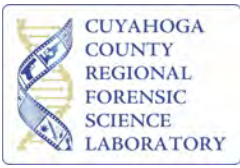
The DNA profile obtained from item 38.2 is a single source of male origin. A likelihood ratio was calculated assuming item 38.2 contained DNA from one unknown contributor.

A match was identified between item 38.2 and Zachery Edwards Jr. This match is: 2.27 nonillion times more probable than a coincidental match to an unrelated African American person, 56.9 decillion times more probable than a coincidental match to an unrelated Caucasian person, and 461 nonillion times more probable than a coincidental match to an unrelated Hispanic person.

The DNA profile obtained from item 39 is a single source of male origin. A likelihood ratio was calculated assuming item 39 contained DNA from one unknown contributor.

A match was identified between item 39 and Zachery Edwards Jr. This match is: 2.27 nonillion times more probable than a coincidental match to an unrelated African American person, 56.9 decillion times more probable than a coincidental match to an unrelated Caucasian person, and 461 nonillion times more probable than a coincidental match to an unrelated Hispanic person.

The DNA profile obtained from items 10.1, 10.3, 11.1, 11.2, and 11.3 is a single source of male origin and is consistent with the DNA profile of Zachery Edwards Jr.



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No DNA profile foreign to Zachery Edwards Jr. was obtained from items 2 and 3.

No human DNA was detected in item 36.1.

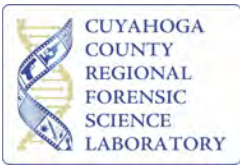
Items 2, 3, 4, 5, 6, 7, 8, 9, 31, and 32 have been retained at the appropriate temperature in the laboratory.

Analyst: Carey M. Baucher
Carey Baucher M.S.
Forensic Scientist

Technical Reviewer: Lisa E. Moore
Lisa Moore M.S.
Forensic Scientist

Comments

- The likelihood ratios were calculated using TrueAllele technology.
- The genetic locus DYS391 was not used in statistical calculations.
- The NIST U.S. autosomal STR database was used for statistical calculations.
- Chemical tests were used for body fluid identification indicated in this report.
- Items not listed under the 'Results and Conclusion' section above were not tested.
- Results and conclusions in this report include opinions and interpretations.
- Please submit a buccal swab standard(s) for comparison purposes.
- The remaining evidence and any sub-items created for subsequent testing, have been stored at the appropriate temperature in



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the laboratory and are ready to be picked up by the submitting agency.

All remaining DNA extracts (if any) will be maintained at the appropriate temperature in the laboratory.

All laboratory activities related to this case were completed between the date the evidence was received, as noted in this report, and the report's issue date. Specific activity dates are maintained in the case file for the case.

Results in this report relate only to the items tested and apply to the sample(s) as received.

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