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SUPPLEMENTAL CERTIFICATE OF ANALYSIS¹

September 7, 2007

Tucson Police Department
Crime Laboratory
270 S. Stone Ave.
Tucson, AZ 85701
Attn.: Mr. Robert Blackett

Agency #: TPD# 9001-31-0233

FS Lab #: F06-6490

Victim(s): Khalifa, Rashad
Suspect(s): Wall (Phillips), Benjamin
Aka. Francis, Glen

Evidence Submitted: via Federal Express
(# 856934188958)

Date Received: 8/2/07

One sealed bag containing:

- Item 214-1 One slide listed as K-3C containing 4 hairs.
- Item 2 One tube listed as DNA extract 7-TM-A bloodstain.
- Item 8 Two tubes listed as DNA extract 107TM-A victim's standard.

Additional items were submitted, however they were not tested at this time.

Results:

Deoxyribonucleic acid (DNA) isolated Item 214-1 and the previously extracted DNA from Item 2 was characterized through the polymerase chain reaction (PCR) at the following genetic systems using AmpF/STR[®] Profiler Plus[™], Cofiler[™] and /or Identifiler[™] kits:

Alleles Detected

Item	Sample	D3 S1358	vWA	FGA	D8 S1179	D21 S11	D18 S51	D5 S818	D13 S317	D7 S820	D16 S539	THO1	TPOX	CSF
8	R. Khalifa 107TM-A ^{XY}	16	15, 17	20, 21	13, 15	27, 30	13, 14	12, 13	9, 13	10, 12	9, 11	9	8, 11	10
2 ²	7TM-A ^{XY}	15, 16	15, 16 ^{*,a}	25, 28 ^a	11 ^{*,12*} , 13, 14 [*]	28	16 ^a	13 ^a	13 ^a	9, 10 ^a	9, 11, 12 [*]	7, 8 ^a	9, 11 ^a	12 ^a
214-1 ²	Hairs B.W. ^{XY}	15, 16	15, 16	25, 28	13, 14	28	16, 19	13	13	9, 10	9, 11	7, 8	9, 11	8, 12

*=Alleles designated with an asterisk are less intense than non-designated alleles.

a= Additional peak(s) detected, however, it fails to meet reporting standards.

1= See Certificate of Analysis dated August 16, 2006 and the Amended Certificate of Analysis dated February 5, 2007 for previously submitted evidence and previously reported results.

2= D2S1338 and D19S433 can be reported upon request.

Based on the results listed above, the DNA profile obtained from the sample 7TM-A (Item 2) is consistent with a mixture of DNA from more than one individual, at least one of which is a male. Benjamin Wall (Item 214-1) cannot be excluded as the major contributor to the genetic material in this sample. Rashad Khalifa (Item 8) is excluded as a contributor to the genetic material in this sample. The probability of randomly selecting an unrelated individual with a DNA profile consistent with the major profile obtained from Item 2 and Item 214-1 at the genetic systems listed above (except vWA, D8S1179, D18S51 and CSF) is approximately: (Note: It is the policy of this laboratory to report statistical estimates greater than the approximate world population as, "1 in greater than 6,500,000,000".)

1 in greater than 6,500,000,000 for the African American population.

1 in greater than 6,500,000,000 for the Caucasian population.

1 in greater than 6,500,000,000 for the Hispanic population.

Deoxyribonucleic acid (DNA) isolated from the Item 214-1 and the previously extracted DNA from Items 2 and 8 was characterized through the polymerase chain reaction (PCR) at the following genetic systems using the AmpF/STR[®] Yfiler[™] kit:

Alleles Detected

<u>System</u>	<u>8-R. Khalifa</u> <u>107TM-A</u>	<u>214-1 B. Wall</u> <u>Hairs</u>	<u>2-Bloodsatin</u> <u>7TM-A</u>
DYS456	14	14	14, 17*
DYS389 I	13	13	13
DYS390	24	22	22 ^a
DYS389 II	31	29	29
DYS458	17	18	16*, 18
DYS19	14	14	14
DYS385 a/b	18	14, 18	11*; 14, 18
DYS393	13	13	13, 14*
DYS391	10	10	10, 11*
DYS439	11	12	12
DYS635	22	22	21*, 22
DYS392	11	11	11
Y GATA H4	12	11	11, 13*
DYS437	14	14	14, 15*
DYS438	10	11	11, 12*
DYS448	20	21	18, 21

Based on the results listed above, the Y chromosome DNA profile obtained from sample 7TM-A (Item 2) is consistent with a mixture of DNA from more than one male individual. Benjamin Wall (Item 214-1) and his paternal relatives cannot be excluded as the major contributor to the genetic material in this sample. Rashad Khalifa (Item 8) and his paternal relatives are excluded as a contributor to the genetic material in this sample.

The major Y chromosome DNA profile obtained from Item 2 (excluding DYS448) was searched in the Applied Biosystems YFiler Haplotype database that consists of approximately 3,561 individuals of various ethnic backgrounds and revealed no matches.

Disposition of Evidence:

Unless previous arrangements have been made, unused evidence will be returned to the submitting agency.

The results have been reviewed independently by the undersigned and are correct as reported.

Sworn to and subscribed
before me this 13 day
of Sept, 2007
at Research Triangle Park, NC.

Shawn M. Weiss
Shawn M. Weiss, BS
Associate Technical Director, Forensic Identity Testing

Trinette Holley Jones
Notary Public

Meghan E. Clement
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