



DNA - Blood Test No. 10-583 Summary Report

This proficiency test was sent to 111 participants. Each participant received a sample pack consisting of two known bloodstains and two questioned stains which they were requested to analyze using their existing protocols. Data were returned from 82 participants (74% response rate) and are compiled into the following tables:

	<u>Page</u>
<u>Manufacturer's Information</u>	<u>2</u>
<u>Summary Comments</u>	<u>4</u>
<u>Table 1: Amplification Kit(s) & STR Results - Part I</u>	<u>5</u>
<u>Table 2: STR Results - Part II</u>	<u>13</u>
<u>Table 3: STR Results - Part III</u>	<u>20</u>
<u>Table 4: YSTR Amplification Kit(s) & YSTR Results - Part I</u>	<u>24</u>
<u>Table 5: YSTR Results - Part II</u>	<u>26</u>
<u>Table 6: Additional DNA Results</u>	<u>28</u>
<u>Table 7: DNA Interpretations</u>	<u>29</u>
<u>Table 8: Additional Comments</u>	<u>32</u>
<u>Appendix: Data Sheet</u>	<u>33</u>

This report contains the data received from the participants in this test. Since these participants are located in many countries around the world, and it is their option how the samples are to be used (e.g., training exercise, known or blind proficiency testing, research and development of new techniques, etc.), the results compiled in the Summary Report are not intended to be an overview of the quality of work performed in the profession and cannot be interpreted as such. The Summary Comments are included for the benefit of participants to assist with maintaining or enhancing the quality of their results. These comments are not intended to reflect the general state of the art within the profession.

Participant results are reported using a randomly assigned "WebCode". This code maintains participant's anonymity, provides linking of the various report sections, and will change with every report.

Manufacturer's Information

Each sample pack consisted of two known bloodstains on FTA Genecards (Items 1 & 2), and two questioned stains, one on clean green material (Item 3) and one on clean purple material (Item 4). The stains in all four Items were prepared from human whole blood which was drawn into citric acid preservative bloodbank bags. Item 1 was blood collected from a female donor, Items 2 and 4 were blood collected from one male donor and Item 3 was blood collected from a female donor that was different from the Item 1 female donor. Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried.

Sample Preparation Schedule

<u>Item</u>	<u>Sample Collected</u>	<u>Prepared</u>	<u>Packaged</u>	<u>Volume</u>
1	March 4, 2010	March 10, 2010	March 10, 2010	75 µl
2	March 4, 2010	March 9, 2010	March 10, 2010	75 µl
3	March 4, 2010	March 10, 2010	March 11, 2010	50 µl
4	March 4, 2010	March 9, 2010	March 10, 2010	50 µl

The blood was refrigerated before being spotted. Completed sample sets were stored at -20°C until shipment on April 13, 2010, following receipt of predistribution results.

Amelogenin and STR Results

Results compiled by predistribution laboratories and a consensus of at least 10 participants.

<u>Item</u>	<u>D3S1358</u>	<u>D5S818</u>	<u>D7S820</u>	<u>D8S1179</u>	<u>D13S317</u>	<u>D16S539</u>	<u>D18S51</u>	<u>D21S11</u>
1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2

<u>Item</u>	<u>Amel</u>	<u>CSF1PO</u>	<u>FGA</u>	<u>TH01</u>	<u>TPOX</u>	<u>vWA</u>	<u>PentaD</u>	<u>PentaE</u>
1	X,X	10,11	21,22	7,9,3	8,11	15,16	10,11	12,21
2	X,Y	10,10	23,23	6,6	9,11	14,17	13,13	5,14
3	X,X	10,12	22,23	6,8	8,11	14,17	13,13	10,10
4	X,Y	10,10	23,23	6,6	9,11	14,17	13,13	5,14

<u>Item</u>	<u>D2S1338</u>	<u>D19S433</u>
1	17,19	13,14
2	19,19	13,14
3	18,23	13,13
4	19,19	13,14

Manufacturer's Information, continued

YSTR Results

Results compiled from predistribution laboratories and a consensus of at least 10 participants.

<u>Item</u>	<u>DYS19</u>	<u>DYS385</u>	<u>DYS389-I</u>	<u>DYS389-II</u>	<u>DYS390</u>	<u>DYS391</u>
2	17	11,12	14	29	23	10
4	17	11,12	14	29	23	10

<u>Item</u>	<u>DYS392</u>	<u>DYS393</u>	<u>DYS437</u>	<u>DYS438</u>	<u>DYS439</u>	<u>DYS448</u>	<u>DYS456</u>	<u>DYS458</u>	<u>DYS635</u>	<u>YGATAH4</u>
2	11	13	15	10	13	20	14	18	23	12
4	11	13	15	10	13	20	14	18	23	12

Summary Comments

The DNA-Blood test is part of the DNA Sample Specific Series in which participants are advised of the body fluid(s) that make up the questioned stains. The test is designed to allow participants to assess their proficiency in the DNA analysis of dried bloodstains. Participants were supplied with two "known" bloodstains (Items 1 and 2) and two "questioned" stains (Items 3 and 4). Item 1 was blood collected from a female donor, Items 2 and 4 were blood collected from one male donor and Item 3 was blood collected from a female donor that was different from the Item 1 female donor. (See Manufacturer's Information for preparation details)

Of the 82 responding participants, 44 reported DNA interpretations. All 44 participants excluded the victim (Item 1) as a possible contributor to both the Item 3 stain and the Item 4 stain. In addition, all excluded the suspect as a contributor of the Item 3 stain and included him as a possible contributor to the Item 4 stain. The remaining 38 participants did not report DNA interpretations stating that they analyzed the samples for database purposes only.

Two participants reported allelic results that were inconsistent with the consensus/predistribution results at one or more loci. Additionally, there was one participant that reported a laboratory specific notation at one locus.

Amplification Kit & STR Results - Part I

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
2BLAY9	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
2NRK9G	Identifiler® PowerPlex®16 SEfiler								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
39CJA6	Identifiler®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
3CEGKX	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15,15	13,14		12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12		12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13		14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12		12,14	31.2,33.2
3LJRQM	PowerPlex 16 HS								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
4C9P6L	Powerplex 16 HS								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
4UURUV	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
66T4WH	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
6EXBD4	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
6G27VL	Identifiler®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
6PD6RH	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15,15	13,14		12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12		12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13		14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12		12,14	31.2,33.2
78C9RQ	Identifiler®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
7M6CAN	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
7PD8YT	Identifiler®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
83EFBA	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
8CJMQA	Identifiler®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
8YDE9Q	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
93AHDJ	PowerPlex®16								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
9ENFHM	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
A33VCV	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
AQWHGP	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
AZX3JH	PowerPlex®16								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
B4V4WK	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
BC76HK	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
BEBXAX	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
BZDDVN	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
C2KJQV	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
CPEB9D	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
CVEM7V	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
D4U8VL	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
DNEAQK	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
DRCBLF	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
EN9EKJ	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
EW4XUU	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
F8DUAG	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
FFEAZP	Identifiler®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
GKHDM3	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
H7Y8P9	Identifiler®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
HDF3YG	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
HGD4UC	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
HWRA3Q	Identifiler®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
JL8KJB	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
JTRGPL	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,14	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
JUKAK6	COfiler® and Profiler Plus® Minifiler								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
KHYPDD	COfiler® and Profiler Plus® PowerPlex®16								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
KXGKQN	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
LFQWWJ	Identifiler®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
M4HV7D	Identifiler®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
M8GUBJ	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
MRY2LC	Identifiler®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
MVY7FK	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
MYZEKU	Identifiler® PowerPlex HS								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
N297GA	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
N896MX	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15,15	13,14		12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12		12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13		14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12		12,14	31.2,33.2
NBABZH	Identifiler®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
NJM3R2	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
NPBEPB	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
P92HLA	Identifiler®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
PGDGFK	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15,15	13,14		12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12		12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13		14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12		12,14	31.2,33.2
PUJPW3	Identifiler®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
Q9UQ7Y	Identifiler®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
QCT6UN	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
QL8TUH	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
QWMKF7	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
RHYZDN	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
RK3T62	Identifiler®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
RN3422	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
RWHMHF	Identifiler®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
TANYRM	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
TC9CE4	PowerPlex®16								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
TV774G	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
TWCTCE	Identifiler®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
UDGEGM	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
VB9L3E	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
VNRCXA	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
WB4N6N	Identifiler®								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
WLJFQC	Identifiler®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
WYPRZJ	Identifiler®								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
Y3K6XT	PowerPlex®16								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2

TABLE 1

WebCode	Item	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
YALE6L	COfiler® and Profiler Plus®								
	1	14,18	12,13	10,12	15,15	13,14		12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12		12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13		14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12		12,14	31.2,33.2
YYJWUJ	Identifiler® PowerPlex®16 SEFILERPLUS AND FFFL								
	1	14,18	12,13	10,12	15,15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
	3	15,18	11,12	11,13	13,14	12,13	11,12	14,17	30,31.2
	4	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2
ZNXCMR	PowerPlex®16								
	1	14,18	12,13	10,12	15	13,14	9,11	12,14	31.2,33.2
	2	14,15	7,11	8,10	12,14	11,12	9,13	12,14	31.2,33.2

STR Results - Part II

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
2BLAY9	1	X,X	10,11	21,22	7,9.3	8,11	15,16	-	-
	2	X,Y	10,10	23,23	6,6	9,11	14,17	-	-
	3	X,X	10,12	22,23	6,8	8,11	14,17	-	-
	4	X,Y	10,10	23,23	6,6	9,11	14,17	-	-
2NRK9G	1	X,X	10,11	21,22	7,9.3	8,11	15,16	10,11	12,21
	2	X,Y	10	23	6	9,11	14,17	13	5,14
	3	X,X	10,12	22,23	6,8	8,11	14,17	13	10
	4	X,Y	10	23	6	9,11	14,17	13	5,14
39CJA6	1	X	10,11	21,22	7,9.3	8,11	15,16	NA	NA
	2	X,Y	10	23	6	9,11	14,17	NA	NA
3CEGKX	1	X,X		21,22			15,16		
	2	X,Y		23,23			14,17		
	3	X,X		22,23			14,17		
	4	X,Y		23,23			14,17		
3LJRQM	1	X,X	10,11	21,22	7,9.3	8,11	15,16	10,11	12,21
	2	X,Y	10,10	23,23	6,6	9,11	14,17	13,13	5,14
	3	X,X	10,12	22,23	6,8	8,11	14,17	13,13	10,10
	4	X,Y	10,10	23,23	6,6	9,11	14,17	13,13	5,14
4C9P6L	1	X	10,11	21,22	7,9.3	8,11	15,16	10,11	12,21
	2	X,Y	10	23	6	9,11	14,17	13	5,14
	3	X	10,12	22,23	6,8	8,11	14,17	13	10
	4	X,Y	10	23	6	9,11	14,17	13	5,14
4UURUV	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
66T4WH	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		
6EXBD4	1	X,X	10,11	21,22	7,9.3	8,11	15,16	NE	NE
	2	X,Y	10,10	23,23	6,6	9,11	14,17	NE	NE
	3	X,X	10,12	22,23	6,8	8,11	14,17	NE	NE
	4	X,Y	10,10	23,23	6,6	9,11	14,17	NE	NE
6G27VL	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
	3	X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10	23	6	9,11	14,17		
6PD6RH	1	X,X		21,22			15,16		
	2	X,Y		23,23			14,17		
	3	X,X		22,23			14,17		
	4	X,Y		23,23			14,17		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
78C9RQ	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10	23	6	9,11	14,17		
7M6CAN	1	X,X	10,11	21,22	7,9.3	8,11	15,16	N/A	N/A
	2	X,Y	10,10	23,23	6,6	9,11	14,17	N/A	N/A
	3	X,X	10,12	22,23	6,8	8,11	14,17	N/A	N/A
	4	X,Y	10,10	23,23	6,6	9,11	14,17	N/A	N/A
7PD8YT	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
83EFBA	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
8CJMQA	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10	23	6	9,11	14,17		
8YDE9Q	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		
93AHDJ	1	X	10,11	21,22	7,9.3	8,11	15,16	10,11	12,21
	2	X,Y	10	23	6	9,11	14,17	13	5,14
9ENFHM	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		
A33VCV	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		
AQWHGP	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		
AZX3JH	1	X	10,11	21,22	7,9.3	8,11	15,16	10,11	12,21
	2	X,Y	10	23	6	9,11	14,17	13	5,14
B4V4WK	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
BC76HK	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		
BEBXAX	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		
BZDDVN	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
C2KJQV	1	X,X	10,11	21,22	7,9.3	8,11	15,16	NE	NE
	2	X,Y	10,10	23,23	6,6	9,11	14,17	NE	NE
	3	X,X	10,12	22,23	6,8	8,11	14,17	NE	NE
	4	X,Y	10,10	23,23	6,6	9,11	14,17	NE	NE
CPEB9D	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
CVEM7V	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
D4U8VL	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
DNEAQK	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
DRCBLF	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		
EN9EKJ	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
EW4XUU	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		
F8DUAG	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		
FFEAZP	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
	3	X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10	23	6	9,11	14,17		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
GKHDM3	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		
H7Y8P9	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
HDF3YG	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
HGD4UC	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		
HWRA3Q	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
JL8KJB	1	X,X	10,11	21,22	7,9.3	8,11	15,16	/	/
	2	X,Y	10,10	23,23	6,6	9,11	14,17	/	/
	3	X,X	10,12	22,23	6,8	8,11	14,17	/	/
	4	X,Y	10,10	23,23	6,6	9,11	14,17	/	/
JTRGPL	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		
JUKAK6	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
	3	X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10	23	6	9,11	14,17		
KHYPDD	1	X,X	10,11	21,22	7,9.3	8,11	15,16	10,11	12,21
	2	X,Y	10	23	6	9,11	14,17	13	5,14
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10	23	6	9,11	14,17		
KXGKQN	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		
LFQWWJ	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
M4HV7D	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
M8GUBJ	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
MRY2LC	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
MYY7FK	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
MYZEKU	1	X,X	10,11	21,22	7,9.3	8,11	15,16	10,11	12,21
	2	X,Y	10,10	23,23	6,6	9,11	14,17	13,13	5,14
	3	X,X	10,12	22,23	6,8	8,11	14,17	13,13	10,10
	4	X,Y	10,10	23,23	6,6	9,11	14,17	13,13	5,14
N297GA	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
N896MX	1	X,X		21,22			15,16		
	2	X,Y		23,23			14,17		
	3	X,X		22,23			14,17		
	4	X,Y		23,23			14,17		
NBABZH	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
NJM3R2	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
NPBEPB	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
P92HLA	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
PGDGFK	1	X,X		21,22			15,16		
	2	X,Y		23,23			14,17		
	3	X,X		22,23			14,17		
	4	X,Y		23,23			14,17		
PUJPW3	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
	3	X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10	23	6	9,11	14,17		
Q9UQ7Y	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
QCT6UN	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
QL8TUH	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
QWMKF7	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		
RHYZDN	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
RK3T62	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
	3	X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10	23	6	9,11	14,17		
RN3422	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		
RWHMHF	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
TANYRM	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
TC9CE4	1	X,X	10,11	21,22	7,9.3	8,11	15,16	10,11	12,21
	2	X,Y	10,10	23,23	6,6	9,11	14,17	13,13	5,14
	3	X,X	10,12	22,23	6,8	8,11	14,17	13,13	10,10
	4	X,Y	10,10	23,23	6,6	9,11	14,17	13,13	5,14
TV774G	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,6	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		
TWCTCE	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
UDGEGM	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
VB9L3E	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		
VNRCXA	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		
WB4N6N	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10,10	23,23	6,6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10,10	23,23	6,6	9,11	14,17		
WLJFQC	1	X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
WYPRZJ	1	X,X	10,11	21,22	7,9.3	8,11	15,16		
	2	X,Y	10	23	6	9,11	14,17		
	3	X,X	10,12	22,23	6,8	8,11	14,17		
	4	X,Y	10	23	6	9,11	14,17		

TABLE 2

WebCode	Item	Amel	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
Y3K6XT	1	X	10,11	21,22	7,9.3	8,11	15,16	10,11	12,21
	2	X,Y	10	23	6	9,11	14,17	13	5,14
YALE6L	1	X,X		21,22			15,16		
	2	X,Y		23,23			14,17		
	3	X,X		22,23			14,17		
	4	X,Y		23,23			14,17		
YYJWUJ	1	X,X	10,11	21,22	7,9.3	8,11	15,16	10,11	12,21
	2	X,Y	10,10	23,23	6,6	9,11	14,17	13,13	5,14
	3	X,X	10,12	22,23	6,8	8,11	14,17	13,13	10,10
	4	X,Y	10,10	23,23	6,6	9,11	14,17	13,13	5,14
ZNXCMR	1	X	10,11	21,22	7,9.3	8,11	15,16	10,11	12,21
	2	X,Y	10	23	6	9,11	14,17	13	5,14

STR Results - Part III

TABLE 3

WebCode	Item	D2S1338	D19S433
2NRK9G	1	17,19	13,14
	2	19	13,14
	3	18,23	13
	4	19	13,14
39CJA6	1	17,19	13,14
	2	19	13,14
66T4WH	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14
6EXBD4	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14
6G27VL	1	17,19	13,14
	2	19	13,14
	3	18,23	13
	4	19	13,14
78C9RQ	1	17,19	13,14
	2	19	13,14
	3	18,23	13
	4	19	13,14
7M6CAN	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14
7PD8YT	1	17,19	13,14
	2	19	13,14
8CJMQA	1	17,19	13,14
	2	19	13,14
	3	18,23	13
	4	19	13,14
8YDE9Q	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14
9ENFHM	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14
A33VCV	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14

TABLE 3

WebCode	Item	D2S1338	D19S433
B4V4WK	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14
BEBXAX	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14
C2KJQV	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14
CVEM7V	1	17,19	13,14
	2	19,19	13,14
EW4XUU	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14
FFEAZP	1	17,19	13,14
	2	19	13,14
	3	18,23	13
	4	19	13,14
GKHDM3	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14
H7Y8P9	1	17,19	13,14
	2	19	13,14
HGD4UC	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14
HWRA3Q	1	17,19	13,14
	2	19	13,14
JL8KJB	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14
JTRGPL	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,13
JUKAK6	1	17,19	
	2	19	
	3	18,23	
	4	19	

TABLE 3

WebCode	Item	D2S1338	D19S433
KXGKQN	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14
LFQWWJ	1	17,19	13,14
	2	19	13,14
M4HV7D	1	17,19	13,14
	2	19	13,14
M8GUBJ	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14
MRY2LC	1	17,19	13,14
	2	19	13,14
MVY7FK	1	17,19	13,14
	2	19,19	13,14
MYZeku	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14
NBABZH	1	17,19	13,14
	2	19	13,14
P92HLA	1	17,19	13,14
	2	19	13,14
PUJPW3	1	17,19	13,14
	2	19	13,14
	3	18,23	13
	4	19	13,14
Q9UQ7Y	1	17,19	13,14
	2	19	13,14
QL8TUH	1	17,19	13,14
	2	19,19	13,14
RK3T62	1	17,19	13,14
	2	19	13,14
	3	18,23	13
	4	19	13,14
RN3422	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14
RWHMHF	1	17,19	13,14
	2	19	13,14
TV774G	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14

TABLE 3

WebCode	Item	D2S1338	D19S433
TWCTCE	1	17,19	13,14
	2	19	13,14
VB9L3E	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14
VNRCXA	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14
WB4N6N	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14
WLJFQC	1	17,19	13,14
	2	19	13,14
WYPRZJ	1	17,19	13,14
	2	19	13,14
	3	18,23	13
	4	19	13,14
YYJWUJ	1	17,19	13,14
	2	19,19	13,14
	3	18,23	13,13
	4	19,19	13,14

Amplification Kit & YSTR Results - Part I

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391
2NRK9G	Yfiler®						
	2	17	11,12	14	29	23	10
	4	17	11,12	14	29	23	10
3CEGKX	Yfiler®						
	2	17	11,12	14	29	23	10
	4	17	11,12	14	29	23	10
3LJRQM	Yfiler®						
	2	17	11,12	14	29	23	10
	3	NR	NR	NR	NR	NR	NR
	4	17	11,12	14	29	23	10
4C9P6L	Yfiler®						
	2	17	11,12	14	29	23	10
	4	17	11,12	14	29	23	10
6EXBD4	Yfiler®						
	1	NE	NE	NE	NE	NE	NE
	2	17	11,12	14	29	23	10
	3	NE	NE	NE	NE	NE	NE
	4	NE	NE	NE	NE	NE	NE
78C9RQ	Yfiler®						
	2	17	11,12	14	29	23	10
	4	17	11,12	14	29	23	10
7M6CAN	Yfiler®						
	2	17	11,12	14	29	23	10
	4	17	11,12	14	29	23	10
8YDE9Q	Yfiler®						
	2	17	11,12	14	29	23	10
	4	17	11,12	14	29	23	10
93AHDJ	PowerPlex®Y						
	2	17	11,12	14	29	23	10
A33VCV	Yfiler®						
	2	17	11,12	14	29	23	10
	4	17	11,12	14	29	23	10
AZX3JH	PowerPlex®Y						
	2	17	11,12	14	29	23	10
B4V4WK	Yfiler®						
	2	17	11,12	14	29	23	10
	4	17	11,12	14	29	23	10

TABLE 4

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391
C2KJQV	Yfiler®						
	1	NE	NE	NE	NE	NE	NE
	2	17	11,12	14	29	23	10
	3	NE	NE	NE	NE	NE	NE
	4	NE	NE	NE	NE	NE	NE
DRCBLF	PowerPlex®Y						
	1	NT	NT	NT	NT	NT	NT
	2	17	11,12	14	29	23	10
	3	NR	NR	NR	NR	NR	NR
	4	17	11,12	14	29	23	10
EW4XUU	Yfiler®						
	2	17	11,12	14	29	23	10
JUKAK6	Yfiler®						
	1	NA	NA	NA	NA	NA	NA
	2	17	11,12	14	29	23	10
	3	NA	NA	NA	NA	NA	NA
	4	17	11,12	14	29	23	10
MYZEKU	Yfiler®						
	2	17	11,12	14	29	23	10
	4	17	11,12	14	29	23	10
RN3422	Yfiler®						
	2	17	11,12	14	29	23	10
	4	17	11,12	14	29	23	10
TC9CE4	PowerPlex®Y						
	2	17	11,12	14	29	23	10
	4	17	11,12	14	29	23	10
TV774G	Yfiler®						
	2	17	11,12	14	29	23	10
VB9L3E	Yfiler®						
	2	17	11,12	14	29	23	10
WB4N6N	Yfiler®						
	2	17	11,12	14	29	23	10
	4	17	11,12	14	29	23	10
WYPRZJ	Yfiler®						
	2	17	11,12	14	29	23	10
	4	17	11,12	14	29	23	10
Y3K6XT	PowerPlex®Y						
	2	17	11,12	14	29	23	10
YYJWUJ	Yfiler®						
	2	17	11,12	14	29	23	10
	4	17	11,12	14	29	23	10
ZNXCMR	PowerPlex®Y						
	2	17	11,12	14	29	23	10

YSTR Results - Part II

TABLE 5

WebCode	Item	DYS392	DYS393	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	YGATAH4
2NRK9G	2	11	13	15	10	13	20	14	18	23	12
	4	11	13	15	10	13	20	14	18	23	12
3CEGKX	2	11	13	15	10	13	20	14	18	23	12
	4	11	13	15	10	13	20	14	18	23	12
3LJRQM	2	11	13	15	10	13	20	14	18	23	12
	3	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	4	11	13	15	10	13	20	14	18	23	12
4C9P6L	2	11	13	15	10	13	20	14	18	23	12
	4	11	13	15	10	13	20	14	18	23	12
6EXBD4	1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	2	11	13	15	10	13	20	14	18	23	12
	3	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	4	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
78C9RQ	2	11	13	15	10	13	20	14	18	23	12
	4	11	13	15	10	13	20	14	18	23	12
7M6CAN	2	11	13	15	10	13	20	14	18	23	12
	4	11	13	15	10	13	20	14	18	23	12
8YDE9Q	2	11	13	15	10	13	20	14	18	23	12
	4	11	13	15	10	13	20	14	18	23	12
93AHDJ	2	11	13	15	10	13					
A33VCV	2	11	13	15	10	13	20	14	18	23	12
	4	11	13	15	10	13	20	14	18	23	12
AZX3JH	2	11	13	15	10	13					
B4V4WK	2	11	13	15	10	13	20	14	18	23	12
	4	11	13	15	10	13	20	14	18	23	12
C2KJQV	1	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	2	11	13	15	10	13	20	14	18	23	12
	3	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
	4	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
DRCBLF	1	NT	NT	NT	NT	NT					
	2	11	13	15	10	13					
	3	NR	NR	NR	NR	NR					
	4	11	13	15	10	13					
EW4XUU	2	11	13	15	10	13	20	14	18	23	12
JUKAK6	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2	11	13	15	10	13	20	14	18	23	12
	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4	11	13	15	10	13	20	14	18	23	12

TABLE 5

WebCode	Item	DYS392	DYS393	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	YGATAH4
MYZEKU	2	11	13	15	10	13	20	14	18	23	12
	4	11	13	15	10	13	20	14	18	23	12
RN3422	2	11	13	15	10	13	20	14	18	23	12
	4	11	13	15	10	13	20	14	18	23	12
TC9CE4	2	11	13	15	10	13					
	4	11	13	15	10	13					
TV774G	2	11	13	15	10	13	20	14	18	23	12
VB9L3E	2	11	13	15	10	13	20	14	18	23	12
WB4N6N	2	11	13	15	10	13	20	14	18	23	12
	4	11	13	15	10	13	20	14	18	23	12
WYPRZJ	2	11	13	15	10	13	20	14	18	23	12
	4	11	13	15	10	13	20	14	18	23	12
Y3K6XT	2	11	13	15	10	13					
YYJWUJ	2	11	13	15	10	13	20	14	18	23	12
	4	11	13	15	10	13	20	14	18	23	12
ZNXCMR	2	11	13	15	10	13					

Additional DNA Results

TABLE 6

Locus	WebCode	Item 1	Item 2	Item 3	Item 4
F13A	YYJWUJ	6,7	4,5	5,5	4,5
F13B	YYJWUJ	10,10	9,10	8,10	9,10
FES	YYJWUJ	10,11	12,14	11,13	12,14
SE33	2NRK9G	24.2	21,23.2	20,22	21,23.2
	MYZEKU	24.2,24.2	21,23.2	20,22	21,23.2
	YYJWUJ	24.2,24.2	21,23.2	20,22	21,23.2

DNA Interpretations

Based on results obtained from DNA analysis, could the Victim (Item 1) and/or the Suspect (Item 2) be a contributor to the questioned stains (Items 3 & 4)?

TABLE 7

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
2BLAY9	No	No	No	Yes	A33VCV	No	No	No	Yes
2NRK9G	No	No	No	Yes	AQWHGP	No	No	No	Yes
39CJA6	No Interpretations Reported, DNA Analyzed for Database purposes only.				AZX3JH	No Interpretations Reported, DNA Analyzed for Database purposes only.			
3CEGKX	No	No	No	Yes	B4V4WK	No	No	No	Yes
3LJRQM	No	No	No	Yes	BC76HK	No	No	No	Yes
4C9P6L	No	No	No	Yes	BEBXAX	No	No	No	Yes
4UURUV	No Interpretations Reported, DNA Analyzed for Database purposes only.				BZDDVN	No Interpretations Reported, DNA Analyzed for Database purposes only.			
66T4WH	No	No	No	Yes	C2KJQV	No	No	No	Yes
6EXBD4	No	No	No	Yes	CPEB9D	No Interpretations Reported, DNA Analyzed for Database purposes only.			
6G27VL	No	No	No	Yes	CVEM7V	No Interpretations Reported, DNA Analyzed for Database purposes only.			
6PD6RH	No	No	No	Yes	D4U8VL	No Interpretations Reported, DNA Analyzed for Database purposes only.			
78C9RQ	No	No	No	Yes	DNEAQK	No Interpretations Reported, DNA Analyzed for Database purposes only.			
7M6CAN	No	No	No	Yes	DRCBLF	No	No	No	Yes
7PD8YT	No Interpretations Reported, DNA Analyzed for Database purposes only.				EN9EKJ	No Interpretations Reported, DNA Analyzed for Database purposes only.			
83EFBA	No Interpretations Reported, DNA Analyzed for Database purposes only.				EW4XUU	No	No	No	Yes
8CJMQA	No	No	No	Yes	F8DUAG	No	No	No	Yes
8YDE9Q	No	No	No	Yes	FFEAZP	No	No	No	Yes
93AHDJ	No Interpretations Reported, DNA Analyzed for Database purposes only.				GKHDM3	No	No	No	Yes
9ENFHM	No	No	No	Yes	H7Y8P9	No Interpretations Reported, DNA Analyzed for Database purposes only.			

TABLE 7

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
HDF3YG	No Interpretations Reported, DNA Analyzed for Database purposes only.				PUJPW3	No Interpretations Reported, DNA Analyzed for Database purposes only.			
HGD4UC	No	No	No	Yes	Q9UQ7Y	No Interpretations Reported, DNA Analyzed for Database purposes only.			
HWRA3Q	No Interpretations Reported, DNA Analyzed for Database purposes only.				QCT6UN	No Interpretations Reported, DNA Analyzed for Database purposes only.			
JL8KJB	No	No	No	Yes	QL8TUH	No Interpretations Reported, DNA Analyzed for Database purposes only.			
JTRGPL	No Interpretations Reported, DNA Analyzed for Database purposes only.				QWMKF7	No	No	No	Yes
JUKAK6	No	No	No	Yes	RHYZDN	No Interpretations Reported, DNA Analyzed for Database purposes only.			
KHYPDD	No	No	No	Yes	RK3T62	No Interpretations Reported, DNA Analyzed for Database purposes only.			
KXGKQN	No	No	No	Yes	RN3422	No	No	No	Yes
LFQWWJ	No Interpretations Reported, DNA Analyzed for Database purposes only.				RWHMHF	No Interpretations Reported, DNA Analyzed for Database purposes only.			
M4HV7D	No Interpretations Reported, DNA Analyzed for Database purposes only.				TANYRM	No Interpretations Reported, DNA Analyzed for Database purposes only.			
M8GUBJ	No	No	No	Yes	TC9CE4	No	No	No	Yes
MRY2LC	No Interpretations Reported, DNA Analyzed for Database purposes only.				TV774G	No	No	No	Yes
MVY7FK	No Interpretations Reported, DNA Analyzed for Database purposes only.				TWCTCE	No Interpretations Reported, DNA Analyzed for Database purposes only.			
MYZEKU	No	No	No	Yes	UDGEGM	No Interpretations Reported, DNA Analyzed for Database purposes only.			
N297GA	No Interpretations Reported, DNA Analyzed for Database purposes only.				VB9L3E	No	No	No	Yes
N896MX	No	No	No	Yes	VNRCXA	No	No	No	Yes
NBABZH	No Interpretations Reported, DNA Analyzed for Database purposes only.				WB4N6N	No	No	No	Yes
NJM3R2	No Interpretations Reported, DNA Analyzed for Database purposes only.				WLJFQC	No Interpretations Reported, DNA Analyzed for Database purposes only.			
NPBEPB	No Interpretations Reported, DNA Analyzed for Database purposes only.				WYPRZJ	No	No	No	Yes
P92HLA	No Interpretations Reported, DNA Analyzed for Database purposes only.				Y3K6XT	No Interpretations Reported, DNA Analyzed for Database purposes only.			
PGDGFK	No	No	No	Yes	YALE6L	No	No	No	Yes

TABLE 7

WebCode	Victim (Item 1)		Suspect (Item 2)		WebCode	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
YYJWUJ	No	No	No	Yes					
ZNXCMR	No Interpretations Reported, DNA Analyzed for Database purposes only.								

Response Summary					Participants reporting DNA results: 82				
<i>Based on results obtained from DNA analysis, could the Victim (Item 1) and/or the Suspect (Item 2) be a contributor to the questioned stains (Items 3 & 4)?</i>									
		Victim (Item 1)		Suspect (Item 2)					
		<u>Item 3</u>	<u>Item 4</u>	<u>Item 3</u>	<u>Item 4</u>				
Responses	Yes	0	0	0	44				
	No	44	44	44	0				
	Inc	0	0	0	0				

Participants not reporting Interpretation results: 38

Additional Comments

TABLE 8

WebCode	Additional Comments
2NRK9G	1. The suspect can not be excluded as the source of the blood recovered from the victim's shirt. 2. The victim is excluded as the source of the blood recovered from the suspect's shirt. 3. An unknown female is not excluded as the origin of the blood recovered from the suspect's shirt.
66T4WH	Based on results obtained genetic profile on piece of evidence identified "Item #3" (suspect's shirt) is not consistent with reference sample #1, identified as "victim", and is not consistent with reference sample #2 identified as "suspect". Reference samples #1 (victim), and Reference sample #2 (suspect) are excluded of being the donors of the genetic profile obtained in piece of evidence identified as "Item #3" (suspect's shirt). The genetic profile obtained from piece of evidence "item #4" (victim's shirt) is consistent with the genetic profile obtained from reference sample #2 (suspect). Reference sample #2 (suspect) cannot be excluded of being the donor of the genetic profile obtained in piece of evidence identified item #4 (victim's shirt). Reference sample #1 (victim) is excluded of being the donor of the genetic profile obtained from the piece of evidence identified as item #4 (victim's shirt).
6EXBD4	NE = not examined. Use of commas denotes alleles which are associated with each other. Amelogenin: X,X indicates female source; X,Y indicates male source.
8YDE9Q	A reproducible artifact is present in Item 1 (Victim blood standard) at locus D13S317. The artifact is in the 15 allele bin with an rfu height of about 3% to 5% of the heterozygote 14 allele height at that locus.
9ENFHM	No STR DNA was detected, either by qPCR quantitation or STR analysis, for substrate controls taken from Items 3 and 4.
C2KJQV	NE = not examined.
CVEM7V	Use of commas denotes alleles which are associated with each other.
DRCBLF	NR = No Result. NT = Not Tested.
EN9EKJ	This analyst performed data analysis, interpretation, and review only.
GKHDM3	Items 4SC & 3SC - No nuclear human DNA was detected through qPCR. No STR typing results were obtained.
JUKAK6	The DNA detected in the stain from the suspect's shirt (Item 3, TA3508.03A) appears to originate from one female individual. The victim (Item 1, TA3508.01A) and the suspect (Item 2, TA3508.02A) are excluded as the source of the DNA detected in this sample. The DNA detected in the stain from the victim's shirt (Item 4, TA3508.04A) appears to originate from one male individual. The suspect (Item 2, TA3508.02A) cannot be excluded as the source of the DNA detected in this sample. The victim (Item 1, TA3508.01A) is excluded as the source of the DNA detected in this sample.
MYZEKU	1. The suspect (item 2) is the source of the questioned stain found in the victim's shirt (item 4). 2. The questioned stain found in the suspect's shirt (item 3) corresponds to an unknown genetic profile different from those of the victim and the suspect.
TANYRM	This analyst performed data analysis, interpretation, and review only.
WYPRZJ	1. In-situ method was used to extract DNA from Items 1 and 2. 2. Chelex extraction method was used to extract DNA from Items 3 and 4. 3. Real-time PCR using the ABI Quantifiler Human DNA Quantification Kit was used to quantify extracted DNA. 4. AmpFISTR Identifilar[sic] and YFILER PCR kit was used for amplification. 5. Reagent blank, positive control and negative control were carried out along with the analysis.
YYJWUJ	1. In items 3 and 4 it was found human blood. 2. The suspect (item 2) can not be excluded as the source of the blood sample in item 4. 3. The victim (item 1) is excluded as the source of the blood sample in items 3 and 4. 4. A female genetic profile from an unknown source was found in item 3. 5. The blood sample in item 4 can not be excluded as coming from a suspect's paternal relative.

Appendix: Data Sheet

Collaborative Testing Services ~ Forensic Testing Program

Test No. 10-583: DNA-Blood

DATA MUST BE RECEIVED BY June 21, 2010 TO BE INCLUDED IN THE REPORT

Participant Code:

WebCode:

Please Note: The Accreditation Release Section Has Moved

CTS submits external proficiency test data directly to ASCLD/LAB and FQS-International. Please select one of the following statements to ensure your data is handled appropriately.

- This participant's data is intended for submission to ASCLD/LAB and/or FQS-International. (Accreditation Release section on the last page must be completed and submitted.)
- This participant's data is **NOT** intended for submission to ASCLD/LAB or FQS-International.

Scenario:

Police are investigating the brutal attack of a female customer. A fight took place in a mall where witnesses state they saw a male employee in an argument with the victim. The police have recovered two questioned stains: one from the suspect's shirt and one from the victim's shirt. Screening has been done on the samples with the following results: Item 3 (suspect's shirt) and Item 4 (victim's shirt) are both positive for blood only. The screening lab is submitting these samples (Items 3 and 4) along with the known blood samples of the victim and the suspect.

Items Submitted (Sample Pack S3):

Item 1: Known blood from the Victim.

Item 2: Known blood from the Suspect.

Item 3: Questioned blood stain from the suspect's shirt. (green material)

Item 4: Questioned blood stain from the victim's shirt. (purple material)

Please return all pages of this data sheet.

Page 1 of 5

Part II: DNA ANALYSIS

TABLE 1a: STR & Amelogenin Results

* Report alleles in numerical order, separated by a comma.

* Follow your laboratory procedures for reporting homozygotes (phenotype vs. genotype).

STR Amplification Kit Used:	<input type="checkbox"/> Cofiler™/Profiler Plus™	<input type="checkbox"/> PowerPlex 16®
Please check all that apply.	<input type="checkbox"/> Identifiler®	<input type="checkbox"/> Other _____

ITEM	D3S1358	D5S818	D7S820	D8S1179	D13S317	D16S539	D18S51	D21S11
1	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>
2	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>
3	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>
4	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>

ITEM	Amelogenin	CSF1PO	FGA	TH01	TPOX	vWA	Penta D	Penta E
1	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>
2	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>
3	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>
4	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>	<input style="width: 100%; height: 100%;" type="text"/>

Please return all pages of this data sheet.

YSTR Results

TABLE 1a, continued

YSTR Amplification Kit Used Please check all that apply.
 YFiler® PowerPlex Y® Other _____

ITEM	D2S1338	D19S433	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	DYS392	DYS393	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS635	Y GATA H4
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TABLE 1b: Additional DNA Results- Please check boxes above, as many common "Additional Loci" have been given set reporting boxes.

	Item 1	Item 2	Item 3	Item 4
_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please return all pages of this data sheet.

Part III: DNA INTERPRETATION

Based on results obtained from DNA analysis, could the Victim (Item 1) and/or the Suspect (Item 2) be a contributor to the questioned stains (Items 3 & 4)?

<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
Item 3	Item 4	Item 3	Item 4
Yes <input type="checkbox"/>	<input type="checkbox"/>	Yes <input type="checkbox"/>	<input type="checkbox"/>
No <input type="checkbox"/>	<input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>
Inconclusive <input type="checkbox"/>	<input type="checkbox"/>	Inconclusive <input type="checkbox"/>	<input type="checkbox"/>

DNA interpretations not reported; samples analyzed for database purposes only.

Part IV: ADDITIONAL COMMENTS

Comments regarding any part of this Forensic Biology Test.
Written conclusions (including statistical information) for DNA analysis are not required.
Any interpretations based on the results obtained should be indicated above.

Return Instructions
Data Sheets can be mailed or faxed (please include a cover sheet) and must be received by **June 21, 2010** to be included in the report.

MAIL:	Collaborative Testing Services, Inc.	FAX:	+1-571-434-1937
	Forensic Testing Program		or Toll-Free (U.S. only): 1-866-FAX-2CTS (329-2287)
	P.O. Box 650820	TEL:	+1-571-434-1925 (8 am - 4:30 pm EST)
	Sterling, VA 20165-0820 USA	EMAIL:	forensics@cts-interlab.com

www.ctsforensics.com

Participant Code:
WebCode:

Collaborative Testing Services ~ Forensic Testing Program
RELEASE OF DATA TO ACCREDITATION BODIES

The following Accreditation Releases will apply only to:

Participant Code: _____ WebCode: _____

for Test No. **10-583: DNA-Blood**

This release page must be completed and received by **June 21, 2010** to have this participant's submitted data included in the reports forwarded to the respective Accreditation Bodies.

ASCLD/LAB RELEASE

If your lab has been accredited by ASCLD/LAB and you are submitting this data as part of their external proficiency test requirements, have the laboratory's designated individual complete the following.

The information below must be completed in its entirety for the results to be submitted to ASCLD/LAB.

ASCLD/LAB Legacy Certificate No. _____ ASCLD/LAB International Certificate No. _____

Signature _____ Date _____

Laboratory Name _____

Location (City/State) _____

FQS-INTERNATIONAL RELEASE

If your laboratory maintains its accreditation through FQS-International, please complete the following form in its entirety to have your results forwarded.

FQS-International Certificate No. _____

Signature and Title: _____ Date _____

Laboratory Name _____

Location (City/State) _____

Accreditation Release

Return Instructions

Please submit the completed Accreditation Release at the same time as your full data sheet. See Data Sheet Return Instructions on the previous page.

*Questions? Contact us 8 am-4:30 pm EST
Telephone: +1-571-434-1925
email: forensics@cts-interlab.com*

Please return all pages of this data sheet.

Page 5 of 5