



DNA-Mixture Test No. 16-581 Summary Report

This proficiency test was sent to 150 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 142 participants (94.6% response rate) and are compiled into the following tables:

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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 clean, white muslin (Items 1 & 2), and two questioned stains; one on clean, pink material (Item 3) and one on clean, green material (Item 4). Participants were requested to analyze these items using their existing protocols.

SAMPLE PREPARATION: The stains in Items 1 - 3 were prepared from human whole blood which was drawn into citric acid preservative blood bank bags. Item 4 was a mixture prepared from human whole blood and semen. The semen, procured from a cryobank, was from a single donor, but stored frozen in multiple vials at -196°C in liquid nitrogen tanks. The semen was thawed and first mixed 1:1 with TAE buffer, then mixed 1:1 with the blood. This mixture was used to spot the Item 4 substrate. Item 1 ($50\ \mu\text{l}$) was created using blood collected from a female donor, Items 2 ($50\ \mu\text{l}$) and 3 ($50\ \mu\text{l}$) were created using blood collected from the same male donor. The Item 4 ($50\ \mu\text{l}$) mixture contained the blood from the Item 1 female donor and semen from a third party male donor whose known blood standard was not provided to participants. Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on January 4, 2016 following receipt of predistribution results.

SAMPLE SET ASSEMBLY: For each sample set, all four Items (1-4) were placed in a pre-labeled sample pack envelope and then into a larger pre-labeled envelope which was heat sealed. This process was repeated until all of the sample sets were prepared.

VERIFICATION: Laboratories that conducted predistribution analysis of the samples reported consistent allelic results and associations.

Amelogenin and STR Results

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

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA
1	15,17.3	21,24	14,14	15,17	11,13	11,13
	14,14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X,X	12,12	22,25
	8,10	12,13	14,18	7,9	8,8	16,19
2	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12	27.2,28.2	6,7	6,8	17,18
3	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12	27.2,28.2	6,7	6,8	17,18
4-Blood	15,17.3	21,24	14,14	15,17	11,13	11,13
	14,14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X,X	12,12	22,25
	8,10	12,13	14,18	7,9	8,8	16,19
4-Semen	16,17.3	17,23	10,11	15,16	11,13	9,11
	14,14	14,17	20,23	10,12	11,13	18,21
	13,15.2	28,30.2	15,17	X,Y	11,12	21,22
	9,9	5,12	21.2,23.2	7,7	8,8	14,18

YSTR Results

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

Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
	DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	Y Indel	
	2	14	11,14	13	30	24	10	12
14		12	11	18	16	17	22	12
13		18	18	23	10	11	2	
3	14	11,14	13	30	24	10	12	13
	14	12	11	18	16	17	22	12
	13	18	18	23	10	11	*	
4-Semen	13	11,17	12	30	24	10	11	13
	14	10	12	20	15	16	25	10
	11	20	21	21	11	9	*	

* Results were not received from a minimum of 10 participants for the YSTR locus indicated.

Summary Comments

The DNA-Mixture test is part of the DNA Sample Specific Series; where 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 analysis of dried stains containing potential mixtures where screening has already been completed. 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, and Items 2 and 3 were blood collected from a male donor. Item 4 was a mixture containing blood from the Item 1 female donor and semen from a male donor whose blood standard was not provided to participants. (See Manufacturer's Information for preparation details)

Of the 142 responding, 140 participants reported DNA interpretations. All 140 participants excluded the victim (Item 1) as a possible contributor to the Item 3 sample. There were 135 participants that included the victim (Item 1) as a possible contributor to the Item 4 mixture, while two excluded the victim (Item 1), two did not report a conclusion, and one reported an inconclusive result. All 140 participants included the suspect (Item 2) as a possible contributor to the Item 3 sample and excluded the suspect (Item 2) from the Item 4 mixture as well.

Fifteen participants reported allelic results that differed from the consensus/predistribution results. Of these, seven were missing alleles at one or more loci, and seven reported additional alleles at one or more loci, with four of the participants doing so on four separate items. Additionally, one participant reported a combination of additional alleles while also missing alleles in a sample.

STR Results

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 1 - STR Results

26ZXUC	<i>PowerPlex® 16</i>					
	1			15,17	11,13	11,13
		14		13,14	9,11	16,19
			30,32	X,X	12	22,25
	8,10	12,13	7,9	8	16,19	
2J4X44	<i>PowerPlex® ESI16, in-house MP</i>					
	1	15,17.3	21,24	14	15,17	
		14	12,15	15,18		9,11
		13,14.2	30,32	14,15	X	22,25
				7,9	16,19	
2M49Z4	<i>Identifiler® Plus, PowerPlex® 16 HS</i>					
	1		21,24		15,17	11,13
		14			13,14	9,11
		13,14.2	30,32		X	12
	8,10	12,13		7,9	8	
2QZWC6	<i>Identifiler® Plus</i>					
	1		21,24		15,17	11,13
		14,14			13,14	9,11
		13,14.2	30,32		X,X	12,12
				7,9	8,8	
2VEULD	<i>PowerPlex® 16</i>					
	1			15,17	11,13	11,13
		14		13,14	9,11	16,19
			30,32	X,X	12	22,25
	8,10	12,13	7,9	8	16,19	
2Z9QB4	<i>GlobalFiler</i>					
	1	15,17.3	21,24	14	15,17	11,13
		14	12,15	15,18	13,14	9,11
		13,14.2	30,32	14,15	X	12
			14,18	7,9	8	
32G4QK	<i>Identifiler® Plus</i>					
	1		21,24		15,17	11,13
		14,14			13,14	9,11
		13,14.2	30,32		X,X	12,12
				7,9	8,8	
3B7RN9	<i>Identifiler® Plus</i>					
	1		21,24		15,17	11,13
		14			13,14	9,11
		13,14.2	30,32		X	12
				7,9	8	

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 1 - STR Results

3H84K6	<i>Globalfiler Express</i>					
1	15,17.3	21,24	14	15,17	11,13	11,13
	14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X	12	22,25
			14,18	7,9	8	16,19
43ABCA	<i>Identifiler® Plus</i>					
1		21,24		15,17	11,13	11,13
	14,14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12,12	22,25
				7,9	8,8	16,19
46AKGJ	<i>PowerPlex® 21</i>					
1	15,17.3	21,24		15,17	11,13	11,13
	14,14		15,18	13,14	9,11	16,19
	13,14.2	30,32		X,X	12,12	22,25
	8,10	12,13		7,9	8,8	16,19
48G3EF	<i>Identifiler®</i>					
1		21,24		15,17	11,13	11,13
	14,14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12,12	22,25
				7,9	8,8	16,19
4EY9D8	<i>Identifiler® Plus</i>					
1		21,24		15,17	11,13	11,13
	14,14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12,12	22,25
				7,9	8,8	16,19
4LHEAE	<i>PowerPlex® 16</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X,X	12	22,25
	8,10	12,13		7,9	8	16,19
4LLXZ3	<i>NGMSelect</i>					
1	15,17.3	21,24	14,14	15,17		
	14,14	12,15	15,18		9,11	16,19
	13,14.2	30,32	14,15	X,X		22,25
			14,18	7,9		16,19
674R29	<i>PowerPlex® 16</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X,X	12	22,25
	8,10	12,13		7,9	8	16,19
68Y9E6	<i>Identifiler® Plus</i>					
1		21,24		15,17	11,13	11,13
	14			13,14	9,11	16,19
	13,14.2	30,32		X	12	22,25
				7,9	8	16,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 1 - STR Results

6CQHN4	PowerPlex® Fusion	1	15,17.3	21,24	14,14	15,17	11,13	11,13
			14,14	12,15	15,18	13,14	9,11	16,19
			13,14.2	30,32	14,15	X,X	12,12	22,25
			8,10	12,13		7,9	8,8	16,19
6EWZMY	PowerPlex® Fusion	1	15,17.3	21,24	14	15,17	11,13	11,13
			14	12,15	15,18	13,14	9,11	16,19
			13,14.2	30,32	14,15	X	12	22,25
			8,10	12,13		7,9	8	16,19
7CME8X	NGM Select	1	15,17.3	21,24	14,14	15,17		
			14,14	12,15	15,18		9,11	16,19
			13,14.2	30,32	14,15	X,X		22,25
					14,18	7,9		16,19
7DFBU7	Identifiler® Plus	1		21,24		15,17	11,13	11,13
			14			13,14	9,11	16,19
			13,14.2	30,32		X,X	12	22,25
						7,9	8	16,19
7KZ4AC	PowerPlex® 16	1				15,17	11,13	11,13
			14			13,14	9,11	16,19
				30,32		X,X	12	22,25
			8,10	12,13		7,9	8	16,19
7MQCF8	Identifiler® Plus	1		21,24		15,17	11,13	11,13
			14			13,14	9,11	16,19
			13,14.2	30,32		X,X	12	22,25
						7,9	8	16,19
87GZ6T	Identifiler® Plus	1	-	21,24	-	15,17	11,13	11,13
			14	-	-	13,14	9,11	16,19
			13,14.2	30,32	-	X,X	12	22,25
			-	-	-	7,9	8	16,19
87YRED	COfiler® and Profiler Plus®	1				15,17	11,13	11,13
			14,14			13,14	9,11	16,19
				30,32		X,X	12,12	22,25
						7,9	8,8	16,19
8BA6WC	Identifiler®	1		21,24		15,17	11,13	11,13
			14			13,14	9,11	16,19
			13,14.2	30,32		X	12	22,25
						7,9	8	16,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 1 - STR Results

8C6NXD	<i>PowerPlex® Fusion</i>					
1	15,17.3	21,24	14,14	15,17	11,13	11,13
	14,14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X,X	12,12	22,25
	8,10	12,13		7,9	8,8	16,19
8DUUE4	<i>COfiler® and Profiler Plus®</i>					
1				15,17	11,13	11,13
	14,14			13,14		16,19
		30,32		X,X		22,25
						16,19
8M2R38	<i>NGM Select</i>					
1	15,17.3	21,24	14,14	15,17		
	14,14	12,15	15,18		9,11	16,19
	13,14.2	30,32	14,15	X,X		22,25
			14,18	7,9		16,19
93ULCC	<i>COfiler® and Profiler Plus® , PowerPlex® Fusion</i>					
1	15,17.3	21,24	14,14	15,17	11,13	11,13
	14,14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X,X	12,12	22,25
	8,10	12,13		7,9	8,8	16,19
982CDX	<i>Identifiler®</i>					
1		21,24		15,17	11,13	11,13
	14,14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12,12	22,25
				7,9	8,8	16,19
9H9RJ6	<i>ESI17</i>					
1	15,17.3	21,24	14,14	15,17		
	14,14	12,15	15,18		9,11	16,19
	13,14.2	30,32	14,15	X,X		22,25
			14,18	7,9		16,19
9JFAH2	<i>NGM Select</i>					
1	15,17.3	21,24	14,14	15,17		
	14,14	12,15	15,18		9,11	16,19
	13,14.2	30,32	14,15	X,X		22,25
			14,18	7,9		16,19
9W4C3E	<i>Identifiler® Plus</i>					
1		21,24		15,17	11,13	11,13
	14,14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12,12	22,25
				7,9	8,8	16,19
AAAGVR	<i>PowerPlex® Fusion</i>					
1	15,17.3	21,24	14	15,17	11,13	11,13
	14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X	12	22,25
	8,10	12,13		7,9	8	16,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 1 - STR Results

AD87AE	<i>PowerPlex® 21</i>					
1	15,17.3	21,24		15,17	11,13	11,13
	14,14		15,18	13,14	9,11	16,19
	13,14.2	30,32			12,12	22,25
	8,10	12,13		7,9	8,8	16,19
AJFLJ3	<i>Identifiler® Plus</i>					
1		21,24		15,17	11,13	11,13
	14,14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12,12	22,25
				7,9	8,8	16,19
AT2PQ2	<i>Identifiler® Plus</i>					
1		21,24		15,17	11,13	11,13
	14,14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12,12	22,25
				7,9	8,8	16,19
AY8JKX	<i>Globalfiler Express</i>					
1	15,17.3	21,24	14	15,17	11,13	11,13
	14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X	12	22,25
			14,18	7,9	8	16,19
B39RP8	<i>PowerPlex® 16</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X,X	12	22,25
	8,10	12,13		7,9	8	16,19
BCXFLV	<i>PowerPlex® Fusion</i>					
1	15,17.3	21,24	14	15,17	11,13	11,13
	14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X	12	22,25
	8,10	12,13		7,9	8	16,19
BNLEDX	<i>PowerPlex® Fusion</i>					
1	15,17.3	21,24	14,14	15,17	11,13	11,13
	14,14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X,X	12,12	22,25
	8,10	12,13		7,9	8,8	16,19
C7YNMX	<i>GlobalFiler</i>					
1	15,17.3	21,24	14,14	15,17	11,13	11,13
	14,14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X,X	12,12	22,25
	-	-	14,18	7,9	8,8	16,19
C93J7Z	<i>Identifiler® Plus</i>					
1		21,24		15,17	11,13	11,13
	14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12	22,25
				7,9	8	16,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 1 - STR Results

C97Z6Y	<i>Identifiler® Plus</i>					
	1	-	21,24	-	15,17	11,13
		14	-	-	13,14	9,11
		13,14.2	30,32	-	X,X	12
	-	-	-	7,9	8	16,19
CC84ZR	<i>PowerPlex® Fusion</i>					
	1	15,17.3	21,24	14	15,17	11,13
		14	12,15	15,18	13,14	9,11
		13,14.2	30,32	14,15	X	12
	8,10	12,13		7,9	8	16,19
CNGGF8	<i>Identifiler®</i>					
	1		21,24		15,17	11,13
		14			13,14	9,11
		13,14.2	30,32		X	12
				7,9	8	16,19
CR37XY						
	1				15,17	11,13
		14,14			13,14	
			30,32		X,X	12
						16,19
CTCBD9	<i>Identifiler®</i>					
	1		21,24		15,17	11,13
		14			13,14	9,11
		13,14.2	30,32		X	12
				7,9	8	16,19
CV3HTY	<i>COfiler® and Profiler Plus®</i>					
	1				15,17	11,13
		14,14			13,14	
			30,32		X,X	12
						16,19
D3WYM2	<i>PowerPlex® 16</i>					
	1				15,17	11,13
		14			13,14	9,11
			30,32		X,X	12
	8,10	12,13		7,9	8	16,19
DP7DDZ	<i>Promega ES1-17</i>					
	1	15,17.3	21,24	14,14	15,17	
		14,14	12,15	15,18		9,11
		13,14.2	30,32	14,15	X,X	
			14,18	7,9		16,19
DU7G9T	<i>Identifiler® Plus</i>					
	1		21,24		15,17	11,13
		14			13,14	9,11
		13,14.2	30,32		X,X	12
				7,9	8	16,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 1 - STR Results

E4MKTX	<i>Identifiler® Plus</i>					
1		21,24		15,17	11,13	11,13
	14,14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12,12	22,25
				7,9	8,8	16,19
E88C6Z	<i>PowerPlex® 16</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X,X	12	22,25
	8,10	12,13		7,9	8	16,19
E93V82	<i>PowerPlex® 16</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X,X	12	22,25
	8,10	12,13		7,9	8	16,19
EH83NM	<i>PowerPlex® Fusion</i>					
1	15,17.3	21,24	14	15,17	11,13	11,13
	14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X	12	22,25
	8,10	12,13		7,9	8	16,19
EKAZWU	<i>Identifiler®</i>					
1		21,24		15,17	11,13	11,13
	14			13,14	9,11	16,19
	13,14.2	30,32		X	12	22,25
				7,9	8	16,19
EKTR4T	<i>Identifiler® Plus</i>					
1		21,24		15,17	11,13	11,13
	14,14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12,12	22,25
				7,9	8,8	16,19
EU2JB3	<i>PowerPlex® 16</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X,X	12	22,25
	8,10	12,13		7,9	8	16,19
EYRTL2	<i>PowerPlex® 16</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X,X	12	22,25
	8,10	12,13		7,9	8	16,19
FMVAFU	<i>COfiler® and Profiler Plus®</i>					
1				15,17	11,13	11,13
	14,14			13,14		16,19
		30,32		X,X		22,25
						16,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 1 - STR Results

FXBWT2	<i>PowerPlex® 16 HS</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X	12	22,25
	8,10	12,13		7,9	8	16,19
FZ26YW	<i>Identifiler® Plus</i>					
1	-	21,24	-	15,17	11,13	11,13
	14	-	-	13,14	9,11	16,19
	13,14.2	30,32	-	X,X	12	22,25
	-	-	-	7,9	8	16,19
G29W74	<i>Identifiler®</i>					
1		21,24		15,17	11,13	11,13
	14			13,14	9,11	16,19
	13,14.2	30,32		X	12	22,25
				7,9	8	16,19
G9TZD7	<i>Identifiler® Plus</i>					
1		21,24		15,17	11,13	11,13
	14,14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12,12	22,25
				7,9	8,8	16,19
G29W74	<i>PowerPlex® ESI-17 FAST</i>					
1	15,17.3	21,24	14,14	15,17		
	14,14	12,15	15,18		9,11	16,19
	13,14.2	30,32	14,15	X,X		22,25
			14,18	7,9		16,19
GFETRQ	<i>GlobalFiler Express</i>					
1	15,17.3	21,24	14	15,17	11,13	11,13
	14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X	12	22,25
			14,18	7,9	8	16,19
GJAKX3	<i>Identifiler®</i>					
1		21,24		15,17	11,13	11,13
	14			13,14	9,11	16,19
	13,14.2	30,32		X	12	22,25
				7,9	8	16,19
GNLULQ	<i>NGM SElect</i>					
1	15,17.3	21,24	14,14	15,17		
	14,14	12,15	15,18		9,11	16,19
	13,14.2	30,32	14,15	X,X		22,25
			14,18	7,9		16,19
GU8KA7	<i>GlobalFiler</i>					
1	15,17.3	21,24	14,14	15,17	11,13	11,13
	14,14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X,X	12,12	22,25
			14,18	7,9	8,8	16,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 1 - STR Results

GY7YXW	<i>Identifiler® Plus</i>					
	1		21,24		15,17	11,13
		14,14			13,14	9,11
		13,14.2	30,32		X,X	12,12
				7,9	8,8	16,19
GZDGVR	<i>Identifiler® Plus</i>					
	1		21,24		15,17	11,13
		14			13,14	9,11
		13,14.2	30,32		X	12
				7,9	8	16,19
H6NRLZ	<i>Identifiler®</i>					
	1		21,24		15,17	11,13
		14			13,14	9,11
		13,14.2	30,32		X	12
				7,9	8	16,19
H6QGTJ	<i>PowerPlex® Fusion</i>					
	1	15,17.3	21,24	14	15,17	11,13
		14	12,15	15,18	13,14	9,11
		13,14.2	30,32	14,15	X	12
	8,10	12,13		7,9	8	16,19
H7HDFR	<i>Identifiler® Plus</i>					
	1		21,24		15,17	11,13
		14			13,14	9,11
		13,14.2	30,32		X	12
				7,9	8	16,19
H9AG4T	<i>Profiler Plus®</i>					
	1				15,17	11,13
		14,14			13,14	
			30,32		X,X	
						16,19
HCN7AM	<i>GlobalFiler</i>					
	1	15,17.3	21,24	14	15,17	11,13
		14	12,15	15,18	13,14	9,11
		13,14.2	30,32	14,15	X	12
			14,18	7,9	8	16,19
HDZQEQ	<i>PowerPlex® FUSION</i>					
	1	15,17.3	21,24	14,14	15,17	11,13
		14,14	12,15	15,18	13,14	9,11
		13,14.2	30,32	14,15	X,X	12,12
	8,10	12,13	-	7,9	8,8	16,19
HKFPNV	<i>PowerPlex® 16</i>					
	1				15,17	11,13
		14			13,14	9,11
			30,32		X,X	12
	8,10	12,13		7,9	8	16,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 1 - STR Results

HNEZJV	<i>PowerPlex® 16</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X,X	12	22,25
	8,10	12,13		7,9	8	16,19
HPAJLW	<i>PowerPlex® 16</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X,X	12	22,25
	8,10	12,13		7,9	8	16,19
KCJ9CW	<i>PowerPlex® 16 HS</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X	12	22,25
	8,10	12,13		7,9	8	16,19
KFJK8W	<i>GlobalFiler</i>					
1	15,17.3	21,24	14,14	15,17	11,13	11,13
	14,14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X,X	12,12	22,25
			14,18	7,9	8,8	16,19
L2U86L	<i>PowerPlex® Fusion, ESI 17, NGM Select</i>					
1	15,17.3	21,24	14,14	15,17	13,13	11,13
	14,14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X,X	12,12	22,25
	8,10	12,13	14,18	7,9	8,8	16,19
L6THZL	<i>AmpFISTR NGM SElect</i>					
1	15,17.3	21,24	14,14	15,17		
	14,14	12,15	15,18		9,11	16,19
	13,14.2	30,32	14,15	X,X		22,25
			14,18	7,9		16,19
LVA42P	<i>Identifiler® Plus</i>					
1		21,24		15,17	11,13	11,13
	14,14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12,12	22,25
				7,9	8,8	16,19
LWJUMM	<i>PowerPlex® Fusion</i>					
1	15,17.3	21,24	14,14	15,17	11,13	11,13
	14,14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X,X	12,12	22,25
	8,10	12,13		7,9	8,8	16,19
M6Q8LU	<i>PowerPlex® 16</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X,X	12	22,25
	8,10	12,13		7,9	8	16,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 1 - STR Results

M73KQQ	<i>Identifiler® Plus</i>					
1		21,24		15,17	11,13	11,13
	14,14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12,12	22,25
				7,9	8,8	16,19
M786EU	<i>PowerPlex® 16</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X,X	12	22,25
	8,10	12,13		7,9	8	16,19
MBEVGZ	<i>Identifiler® Plus</i>					
1		21,24		15,17	11,13	11,13
	14,14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12,12	22,25
				7,9	8,8	16,19
MF8R7Q	<i>PowerPlex® 16</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X,X	12	22,25
	8,10	12,13		7,9	8	16,19
MHEA6L	<i>Identifiler® Plus</i>					
1		21,24		15,17	11,13	11,13
	14			13,14	9,11	16,19
	13,14.2	30,32		X	12	22,25
				7,9	8	16,19
MRPCQM	<i>Identifiler® ID+</i>					
1		21,24		15,17	11,13	11,13
	14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12	22,25
				7,9	8	16,19
MTV2NP	<i>Identifiler® Plus</i>					
1		21,24		15,17	11,13	11,13
	14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12	22,25
				7,9	8	16,19
N3Z94P	<i>ESI 17</i>					
1	15,17.3	21,24	14,14	15,17		
	14,14	12,15	15,18		9,11	16,19
	13,14.2	30,32	14,15	X,X		22,25
			14,18	7,9		16,19
N4WGFF	<i>PowerPlex® ESX 17</i>					
1	15,17.3	21,24	14	15,17		
	14	12,15	15,18		9,11	16,19
	13,14.2	30,32	14,15	X		22,25
			14,18	7,9		16,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 1 - STR Results

N8CCUR	<i>PowerPlex® 16</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X,X	12	22,25
	8,10	12,13		7,9	8	16,19
NQ7TJU	<i>PowerPlex® 16</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X,X	12	22,25
	8,10	12,13		7,9	8	16,19
PGDWWK	<i>PowerPlex® Fusion</i>					
1	15,17.3	21,24	14,14	15,17	11,13	11,13
	14,14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X,X	12,12	22,25
	8,10	12,13		7,9	8,8	16,19
PHAC8V	<i>PowerPlex® Fusion</i>					
1	15,17.3	21,24	14,14	15,17	11,13	11,13
	14,14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X,X	12,12	22,25
	8,10	12,13		7,9	8,8	16,19
PL9QUL	<i>Identifiler® Identifiler Plus</i>					
1		21,24		15,17	11,13	11,13
	14			13,14	9,11	16,19
	13,14.2	30,32		X	12	22,25
				7,9	8	16,19
PNE9TG	<i>Identifiler® Plus</i>					
1		21,24		15,17	11,13	11,13
	14			13,14	9,11	16,19
	13,14.2	30,32		X	12	22,25
				7,9	8	16,19
PU2YEC	<i>PowerPlex® Fusion</i>					
1	15,17.3	21,24	14	15,17	11,13	11,13
	14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X	12	22,25
	8,10	12,13		7,9	8	16,19
PVY99U	<i>Identifiler®</i>					
1		21,24		15,17	11,13	11,13
	14			13,14	9,11	16,19
	13,14.2	30,32		X	12	22,25
				7,9	8	16,19
PWURAV	<i>COfiler® and Profiler Plus® , PowerPlex® Fusion</i>					
1	15,17.3	21,24	14,14	15,17	11,13	11,13
	14,14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X,X	12,12	22,25
	8,10	12,13		7,9	8,8	16,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 1 - STR Results

Q9GGKK	<i>Identifiler®</i>					
1		21,24		15,17	11,13	11,13
	14			13,14	9,11	16,19
	13,14.2	30,32		X	12	22,25
				7,9	8	16,19
QCGRGK	<i>Identifiler®</i>					
1		21,24		15,17	11,13	11,13
	14			13,14	9,11	16,19
	13,14.2	30,32		X	12	22,25
				7,9	8	16,19
QTQJJP	<i>PowerPlex® 16</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X,X	12	22,25
	8,10	12,13		7,9	8	16,19
R2WM6E	<i>Identifiler® Plus, PowerPlex® 21</i>					
1	15,17.3	21,24		15,17	11,13	11,13
	14,14		15,18	13,14	9,11	16,19
	13,14.2	30,32		X,X	12,12	22,25
	8,10	12,13		7,9	8,8	16,19
RCX99T	<i>Globalfiler</i>					
1	15,17.3	21,24	14,14	15,17	11,13	11,13
	14,14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X,X	12,12	22,25
			14,18	7,9	8,8	16,19
RMXYTE	<i>GlobalFiler Express</i>					
1	15,17.3	21,24	14	15,17	11,13	11,13
	14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X	12	22,25
			14,18	7,9	8	16,19
TD2HGF	<i>Identifiler® Identifiler Plus, MiniFiler</i>					
1		21,24		15,17	11,13	11,13
	14			13,14	9,11	16,19
	13,14.2	30,32		X	12	22,25
				7,9	8	16,19
TJMF3H	<i>Identifiler® Plus</i>					
1	-	21,24	-	15,17	11,13	11,13
	14	-	-	13,14	9,11	16,19
	13,14.2	30,32	-	X,X	12	22,25
	-	-	-	7,9	8	16,19
TR8CAD	<i>Identifiler®</i>					
1		21,24		15,17	11,13	11,13
	14,14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12,12	22,25
				7,9	8,8	16,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 1 - STR Results

TT3UCE	<i>Globalfiler express</i>					
1	15,17.3	21,24	14	15,17	11,13	11,13
	14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X	12	22,25
			14,18	7,9	8	16,19
UC7ZEE	<i>PowerPlex® Fusion</i>					
1	15,17.3	21,24	14,14	15,17	11,13	11,13
	14,14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X,X	12,12	22,25
	8,10	12,13		7,9	8,8	16,19
UHX8XM	<i>PowerPlex® PPI 6 HS</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X	12	22,25
	8,10	12,13		7,9	8	16,19
UT9WBJ	<i>PowerPlex® 16</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X,X	12	22,25
	8,10	12,13		7,9	8	16,19
UU6CMF	<i>Identifiler® Identifiler Plus</i>					
1		21,24		15,17	11,13	11,13
	14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12	22,25
				7,9	8	16,19
V4AJ3F	<i>Identifiler® Plus</i>					
1		21,24		15,17	11,13	11,13
	14,14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12,12	22,25
				7,9	8,8	16,19
V7G22B	<i>Globalfiler Express</i>					
1	15,17.3	21,24	14	15,17	11,13	11,13
	14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X	12	22,25
			14,18	7,9	8	16,19
VCMF4F	<i>COfiler® and Profiler Plus®</i>					
1				15,17	11,13	11,13
	14,14			13,14		16,19
		30,32		X,X		22,25
						16,19
VE8KFJ	<i>PowerPlex® 16</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X,X	12	22,25
	8,10	12,13		7,9	8	16,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 1 - STR Results

VJ4BJB	<i>Identifiler®</i>					
1		21,24		15,17	11,13	11,13
	14			13,14	9,11	16,19
	13,14.2	30,32		X	12	22,25
				7,9	8	16,19
VTYHJ	<i>PowerPlex® 16</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X,X	12	22,25
	8,10	12,13		7,9	8	16,19
VYFMDP	<i>COfiler® and Profiler Plus® , PowerPlex® FUSION</i>					
1	15,17.3	21,24	14,14	15,17	11,13	11,13
	14,14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X,X	12,12	22,25
	8,10	12,13		7,9	8,8	16,19
W6Z69C	<i>PowerPlex® Fusion</i>					
1	15,17.3	21,24	14,14	15,17	11,13	11,13
	14,14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X,X	12,12	22,25
	8,10	12,13	-	7,9	8,8	16,19
WP8GYD	<i>Identifiler®</i>					
1		21,24		15,17	11,13	11,13
	14			13,14	9,11	16,19
	13,14.2	30,32		X	12	22,25
				7,9	8	16,19
WPNQRE	<i>Identifiler® Plus</i>					
1		21,24		15,17	11,13	11,13
	14,14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12,12	22,25
				7,9	8,8	16,19
X9EYP9	<i>Identifiler® Plus</i>					
1		21,24		15,17	11,13	11,13
	14,14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12,12	22,25
				7,9	8,8	16,19
XAAHQB	<i>Globalfiler Express</i>					
1	15,17.3	21,24	14	15,17	11,13	11,13
	14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X	12	22,25
			14,18	7,9	8	16,19
XH2Z6J	<i>PowerPlex® 16</i>					
1				15,17	11,13	11,13
	14			13,14	9,11	16,19
		30,32		X,X	12	22,25
	8,10	12,13		7,9	8	16,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 1 - STR Results

XVQZVL	Identifiler®						
	1		21,24		15,17	11,13	11,13
		14			13,14	9,11	16,19
		13,14.2	30,32		X	12	22,25
				7,9	8	16,19	
YFRBFF	PowerPlex® 16						
	1				15,17	11,13	11,13
		14			13,14	9,11	16,19
			30,32		X,X	12	22,25
		8,10	12,13		7,9	8	16,19
YN3W2N	Identifiler® Plus						
	1		21,24		15,17	11,13	11,13
		14,14			13,14	9,11	16,19
		13,14.2	30,32		X,X	12,12	22,25
				7,9	8,8	16,19	
YTKUW7	PowerPlex® Fusion						
	1	15,17.3	21,24	14	15,17	11,13	11,13
		14	12,15	15,18	13,14	9,11	16,19
		13,14.2	30,32	14,15	X	12	22,25
		8,10	12,13		7,9	8	16,19
YZJJDA	Identifiler® Plus						
	1		21,24		15,17	11,13	11,13
		14			13,14	9,11	16,19
		13,14.2	30,32		X	12	22,25
				7,9	8	16,19	
Z3Z898	Profiler Plus®						
	1				15,17	11,13	11,13
		14,14			13,14		16,19
			30,32		X,X		22,25
						16,19	
ZX7AZ4	PowerPlex® ESX, HS, NGM						
	1	15,17.3	21,24	14	15,17	11,13	11,13
		14	12,15	15,18	13,14	9,11	16,19
		13,14.2	30,32	14,15	X	12	22,25
		8,10	12,13	14,18	7,9	8	16,19
ZYYZ7H	PowerPlex® 16						
	1				15,17	11,13	11,13
		14			13,14	9,11	16,19
			30,32		X,X	12	22,25
		8,10	12,13		7,9	8	16,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 2 - STR Results

26ZXUC	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
2J4X44	<i>PowerPlex® ESI16, in-house MP</i>					
2	15.3,16	23,24	11	16		
	12,14	13	19.3,20		11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y		21,26
				6,7		17,18
2M49Z4	<i>Identifiler® Plus, PowerPlex® 16 HS</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
2QZWC6	<i>Identifiler® Plus</i>					
2		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
2VEULD	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
2Z9QB4	<i>GlobalFiler</i>					
2	15.3,16	23,24	11	16	12,13	8,11
	12,14	13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
			27.2,28.2	6,7	6,8	17,18
32G4QK	<i>Identifiler® Plus</i>					
2		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
3B7RN9	<i>Identifiler® Plus</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
3H84K6	<i>Globalfiler Express</i>					
2	15.3,16	23,24	11	16	12,13	8,11
	12,14	13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
			27.2,28.2	6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 2 - STR Results

43ABCA	<i>Identifiler® Plus</i>					
2		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
46AKGJ	<i>PowerPlex® 21</i>					
2	15.3,16	23,24		16,16	12,13	8,11
	12,14		19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
48G3EF	<i>Identifiler®</i>					
2		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
4EY9D8	<i>Identifiler® Plus</i>					
2		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
4LHEAE	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
4LLXZ3	<i>NGMSelect</i>					
2	15.3,16	23,24	11,11	16,16		
	12,14	13,13	19.3,20		11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y		21,26
			27.2,28.2	6,7		17,18
674R29	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
68Y9E6	<i>Identifiler® Plus</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
6CQHN4	<i>PowerPlex® Fusion</i>					
2	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 2 - STR Results

6EWZMY	<i>PowerPlex® Fusion</i>					
2	15,3,16	23,24	11	16	12,13	8,11
	12,14	13	19,3,20	10,11	11,12	12,14
	11,2,15,2	28,33,2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
7CME8X	<i>NGM Select</i>					
2	15,3,16	23,24	11,11	16,16		
	12,14	13,13	19,3,20		11,12	12,14
	11,2,15,2	28,33,2	15,16	X,Y		21,26
			27,2,28,2	6,7		17,18
7DFBU7	<i>Identifiler® Plus</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11,2,15,2	28,33,2		X,Y	10,12	21,26
				6,7	6,8	17,18
7KZ4AC	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33,2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
7MQCF8	<i>Identifiler® Plus</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11,2,15,2	28,33,2		X,Y	10,12	21,26
				6,7	6,8	17,18
87GZ6T	<i>Identifiler® Plus</i>					
2	-	23,24	-	16	12,13	8,11
	12,14	-	-	10,11	11,12	12,14
	11,2,15,2	28,33,2	-	X,Y	10,12	21,26
	-	-	-	6,7	6,8	17,18
87YRED	<i>COfiler® and Profiler Plus®</i>					
2				16,16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33,2		X,Y	10,12	21,26
				6,7	6,8	17,18
8BA6WC	<i>Identifiler®</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11,2,15,2	28,33,2		X,Y	10,12	21,26
				6,7	6,8	17,18
8C6NXD	<i>PowerPlex® Fusion</i>					
2	15,3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19,3,20	10,11	11,12	12,14
	11,2,15,2	28,33,2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

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8DUUE4	<i>COfiler® and Profiler Plus®</i>					
2				16,16	12,13	8,11
	12,14			10,11		12,14
		28,33.2		X,Y		21,26
						17,18
8M2R38	<i>NGM Select</i>					
2	15.3,16	23,24	11,11	16,16		
	12,14	13,13	19.3,20		11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y		21,26
			27.2,28.2	6,7		17,18
93ULCC	<i>COfiler® and Profiler Plus® , PowerPlex® Fusion</i>					
2	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
982CDX	<i>Identifiler®</i>					
2		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
9H9RJ6	<i>ESI17</i>					
2	15.3,16	23,24	11,11	16,16		
	12,14	13,13	19.3,20		11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y		21,26
			27.2,28.2	6,7		17,18
9JFAH2	<i>NGM SELECT</i>					
2	15.3,16	23,24	11,11	16,16		
	12,14	13,13	19.3,20		11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y		21,26
			27.2,28.2	6,7		17,18
9W4C3E	<i>Identifiler® Plus</i>					
2		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
AAAGVR	<i>PowerPlex® Fusion</i>					
2	15.3,16	23,24	11	16	12,13	8,11
	12,14	13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
AD87AE	<i>PowerPlex® 21</i>					
2	15.3,16	23,24		16,16	12,13	8,11
	12,14		19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2			10,12	21,26
	10,13	8,12		6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 2 - STR Results

AJFLJ3	<i>Identifiler® Plus</i>					
2		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
AT2PQ2	<i>Identifiler® Plus</i>					
2		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
AY8JKX	<i>Globalfiler Express</i>					
2	15.3,16	23,24	11	16	12,13	8,11
	12,14	13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
			27.2,28.2	6,7	6,8	17,18
B39RP8	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
BCXFLV	<i>PowerPlex® Fusion</i>					
2	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
BNLEDX	<i>PowerPlex® Fusion</i>					
2	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
C7YNMX	<i>GlobalFiler</i>					
2	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	-	-	27.2,28.2	6,7	6,8	17,18
C93J7Z	<i>Identifiler® Plus</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
C97Z6Y	<i>Identifiler® Plus</i>					
2	-	23,24	-	16	12,13	8,11
	12,14	-	-	10,11	11,12	12,14
	11.2,15.2	28,33.2	-	X,Y	10,12	21,26
	-	-	-	6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 2 - STR Results

CC84ZR	<i>PowerPlex® Fusion</i>					
2	15,3,16	23,24	11	16	12,13	8,11
	12,14	13	19,3,20	10,11	11,12	12,14
	11,2,15,2	28,33,2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
CNGGF8	<i>Identifiler®</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11,2,15,2	28,33,2		X,Y	10,12	21,26
				6,7	6,8	17,18
CR37XY						
2				16,16	12,13	8,11
	12,14			10,11		12,14
		28,33,2		X,Y		21,26
						17,18
CTCBD9	<i>Identifiler®</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11,2,15,2	28,33,2		X,Y	10,12	21,26
				6,7	6,8	17,18
CV3HTY	<i>COfiler® and Profiler Plus®</i>					
2				16,16	12,13	8,11
	12,14			10,11		12,14
		28,33,2		X,Y		21,26
						17,18
D3WYM2	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33,2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
DP7DDZ	<i>Promega ESI-17</i>					
2	15,3,16	23,24	11,11	16,16		
	12,14	13,13	19,3,20		11,12	12,14
	11,2,15,2	28,33,2	15,16	X,Y		21,26
			27,2,28,2	6,7		17,18
DU7G9T	<i>Identifiler® Plus</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11,2,15,2	28,33,2		X,Y	10,12	21,26
				6,7	6,8	17,18
E4MKTX	<i>Identifiler® Plus</i>					
2		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11,2,15,2	28,33,2		X,Y	10,12	21,26
				6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 2 - STR Results

E88C6Z	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
E93V82	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
EH83NM	<i>PowerPlex® Fusion</i>					
2	15.3,16	23,24	11	16	12,13	8,11
	12,14	13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
EKAZWU	<i>Identifiler®</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
EKTR4T	<i>Identifiler® Plus</i>					
2		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
EU2JB3	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
EYRTL2	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
FMVAFU	<i>COfiler® and Profiler Plus®</i>					
2				16,16	12,13	8,11
	12,14			10,11		12,14
		28,33.2		X,Y		21,26
						17,18
FXBWT2	<i>PowerPlex® 16 HS</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 2 - STR Results

FZ26YW	<i>Identifiler® Plus</i>					
2	-	23,24	-	16	12,13	8,11
	12,14	-	-	10,11	11,12	12,14
	11.2,15.2	28,33.2	-	X,Y	10,12	21,26
	-	-	-	6,7	6,8	17,18
G29W74	<i>Identifiler®</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
G9TZD7	<i>Identifiler® Plus</i>					
2		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
GCMRHW	<i>PowerPlex® ESI-17 FAST</i>					
2	15.3,16	23,24	11,11	16,16		
	12,14	13,13	19.3,20		11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y		21,26
			27.2,28.2	6,7		17,18
GFETRQ	<i>GlobalFiler Express</i>					
2	15.3,16	23,24	11	16	12,13	8,11
	12,14	13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
			27.2,28.2	6,7	6,8	17,18
GJAKX3	<i>Identifiler®</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
GNLULQ	<i>NGM SElect</i>					
2	15.3,16	23,24	11,11	16,16		
	12,14	13,13	19.3,20		11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y		21,26
			27.2,28.2	6,7		17,18
GU8KA7	<i>GlobalFiler</i>					
2	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
			27.2,28.2	6,7	6,8	17,18
GY7YXW	<i>Identifiler® Plus</i>					
2		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 2 - STR Results

GZDGVR	<i>Identifiler® Plus</i>						
	2		23,24		16	12,13	8,11
		12,14			10,11	11,12	12,14
		11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18	
H6NRLZ	<i>Identifiler®</i>						
	2		23,24		16	12,13	8,11
		12,14			10,11	11,12	12,14
		11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18	
H6QGJT	<i>PowerPlex® Fusion</i>						
	2	15.3,16	23,24	11	16	12,13	8,11
		12,14	13	19.3,20	10,11	11,12	12,14
		11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18	
H7HDFR	<i>Identifiler® Plus</i>						
	2		23,24		16	12,13	8,11
		12,14			10,11	11,12	12,14
		11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18	
H9AG4T	<i>Profiler Plus®</i>						
	2				16,16	12,13	8,11
		12,14			10,11		12,14
			28,33.2		X,Y		21,26
						17,18	
HCN7AM	<i>GlobalFiler</i>						
	2	15.3,16	23,24	11	16	12,13	8,11
		12,14	13	19.3,20	10,11	11,12	12,14
		11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
			27.2,28.2	6,7	6,8	17,18	
HDZQEQ	<i>PowerPlex® FUSION</i>						
	2	15.3,16	23,24	11,11	16,16	12,13	8,11
		12,14	13,13	19.3,20	10,11	11,12	12,14
		11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12	-	6,7	6,8	17,18	
HKFPNV	<i>PowerPlex® 16</i>						
	2				16	12,13	8,11
		12,14			10,11	11,12	12,14
			28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18	
HNEZJV	<i>PowerPlex® 16</i>						
	2				16	12,13	8,11
		12,14			10,11	11,12	12,14
			28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18	

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 2 - STR Results

HPAJLW	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
KCJ9CW	<i>PowerPlex® 16 HS</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
KFJK8W	<i>GlobalFiler</i>					
2	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
			27.2,28.2	6,7	6,8	17,18
L2U86L	<i>PowerPlex® Fusion, ESI 17, NGM Select</i>					
2	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12	27.2,28.2	6,7	6,8	17,18
L6THZL	<i>AmpFISTR NGM SElect</i>					
2	15.3,16	23,24	11,11	16,16		
	12,14	13,13	19.3,20		11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y		21,26
			27.2,28.2	6,7		17,18
LVA42P	<i>Identifiler® Plus</i>					
2		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
LWJUMM	<i>PowerPlex® Fusion</i>					
2	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
M6Q8LU	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
M73KQQ	<i>Identifiler® Plus</i>					
2		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 2 - STR Results

M786EU	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
MBEVGZ	<i>Identifiler® Plus</i>					
2		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
MF8R7Q	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
MHEA6L	<i>Identifiler® Plus</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
MRPCQM	<i>Identifiler® ID+</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
MTV2NP	<i>Identifiler® Plus</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
N3Z94P	<i>ESI 17</i>					
2	15.3,16	23,24	11,11	16,16		
	12,14	13,13	19.3,20		11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y		21,26
			27.2,28.2	6,7		17,18
N4WGFF	<i>PowerPlex® ESX 17</i>					
2	15.3,16	23,24	11	16		
	12,14	13	19.3,20		11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y		21,26
			27.2,28.2	6,7		17,18
N8CCUR	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 2 - STR Results

NQ7TJU	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
PGDWWK	<i>PowerPlex® Fusion</i>					
2	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
PHAC8V	<i>PowerPlex® Fusion</i>					
2	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
PL9QUL	<i>Identifiler® Identifiler[sic] Plus</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
PNE9TG	<i>Identifiler® Plus</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
PU2YEC	<i>PowerPlex® Fusion</i>					
2	15.3,16	23,24	11	16	12,13	8,11
	12,14	13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
PVY99U	<i>Identifiler®</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
PWURAV	<i>COfiler® and Profiler Plus® , PowerPlex® Fusion</i>					
2	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
Q9GGKK	<i>Identifiler®</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 2 - STR Results

QCGRGK	<i>Identifiler®</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
QTQJJP	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
R2WM6E	<i>Identifiler® Plus, PowerPlex® 21</i>					
2	15.3,16	23,24		16,16	12,13	8,11
	12,14		19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
RCX99T	<i>Globalfiler</i>					
2	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
			27.2,28.2	6,7	6,8	17,18
RMXYTE	<i>GlobalFiler Express (GFE)</i>					
2	15.3,16	23,24	11	16	12,13	8,11
	12,14	13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
			27.2,28.2	6,7	6,8	17,18
TD2HGF	<i>Identifiler® Identifiler Plus, MiniFiler</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
TJMF3H	<i>Identifiler® Plus</i>					
2	-	23,24	-	16	12,13	8,11
	12,14	-	-	10,11	11,12	12,14
	11.2,15.2	28,33.2	-	X,Y	10,12	21,26
	-	-	-	6,7	6,8	17,18
TR8CAD	<i>Identifiler®</i>					
2		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
TT3UCE	<i>Globalfiler express</i>					
2	15.3,16	23,24	11	16	12,13	8,11
	12,14	13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
			27.2,28.2	6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 2 - STR Results

UC7ZEE	<i>PowerPlex® Fusion</i>					
2	15,3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
UHX8XM	<i>PowerPlex® PP16 HS</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
UT9WBJ	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
UU6CMF	<i>Identifiler® Identifiler Plus</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
V4AJ3F	<i>Identifiler® Plus</i>					
2		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
V7G22B	<i>Globalfiler Express (GFE)</i>					
2	15,3,16	23,24	11	16	12,13	8,11
	12,14	13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
			27.2,28.2	6,7	6,8	17,18
VCMF4F	<i>COfiler® and Profiler Plus®</i>					
2				16,16	12,13	8,11
	12,14			10,11		12,14
		28,33.2		X,Y		21,26
						17,18
VE8KFJ	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
VJ4BJB	<i>Identifiler®</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 2 - STR Results

VTYHJ	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
VFMDP	<i>COfiler® and Profiler Plus® , PowerPlex® Fusion</i>					
2	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
W6Z69C	<i>PowerPlex® Fusion</i>					
2	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12	-	6,7	6,8	17,18
WP8GYD	<i>Identifiler®</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
WPNQRE	<i>Identifiler® Plus</i>					
2		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
X9EYP9	<i>Identifiler® Plus</i>					
2		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
XAAHQB	<i>Globalfiler Express</i>					
2	15.3,16	23,24	11	16	12,13	8,11
	12,14	13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
			27.2,28.2	6,7	6,8	17,18
XH2Z6J	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
XVQZVL	<i>Identifiler®</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 2 - STR Results

YFRBFF	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
YN3W2N	<i>Identifiler® Plus</i>					
2		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
YTKUW7	<i>PowerPlex® Fusion</i>					
2	15.3,16	23,24	11	16	12,13	8,11
	12,14	13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
YZJJDA	<i>Identifiler® Plus</i>					
2		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
Z3Z898	<i>Profiler Plus®</i>					
2				16,16	12,13	8,11
	12,14			10,11		12,14
		28,33.2		X,Y		21,26
						17,18
ZX7AZ4	<i>PowerPlex® ESX, HS, NGM</i>					
2	15.3,16	23,24	11	16	12,13	8,11
	12,14	13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12	27.2,28.2	6,7	6,8	17,18
ZYYZ7H	<i>PowerPlex® 16</i>					
2				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 3 - STR Results

26ZXUC	<i>PowerPlex® 16</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
2J4X44	<i>PowerPlex® ESI16</i>					
3	15.3,16	23,24	11	16		
	12,14	13	19.3,20		11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y		21,26
				6,7		17,18
2M49Z4	<i>Identifiler® Plus, PowerPlex® 16 HS</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
2QZWC6	<i>Identifiler® Plus</i>					
3		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
2VEULD	<i>PowerPlex® 16</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
2Z9QB4	<i>GlobalFiler</i>					
3	15.3,16	23,24	11	16	12,13	8,11
	12,14	13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
			27.2,28.2	6,7	6,8	17,18
32G4QK	<i>Identifiler® Plus</i>					
3		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
3B7RN9	<i>Identifiler® Plus</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
3H84K6	<i>Identifiler® Plus</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 3 - STR Results

43ABCA	<i>Identifiler® Plus</i>					
3		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
46AKGJ	<i>PowerPlex® 21</i>					
3	15.3,16	23,24		16,16	12,13	8,11
	12,14		19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
48G3EF	<i>Identifiler®</i>					
3		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
4EY9D8	<i>Identifiler® Plus</i>					
3		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
4LHEAE	<i>PowerPlex® 16</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
4LLXZ3	<i>PowerPlex® ESI17</i>					
3	15.3,16	23,24	11,11	16,16		
	12,14	13,13	19.3,20		11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y		21,26
			27.2,28.2	6,7		17,18
674R29	<i>PowerPlex® 16</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
68Y9E6	<i>Identifiler® Plus</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
6CQHN4	<i>PowerPlex® Fusion</i>					
3	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 3 - STR Results

6EWZMY	<i>PowerPlex® Fusion</i>					
3	15,3,16	23,24	11	16	12,13	8,11
	12,14	13	19,3,20	10,11	11,12	12,14
	11,2,15,2	28,33,2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
7CME8X	<i>NGM Select</i>					
3	15,3,16	23,24	11,11	16,16		
	12,14	13,13	19,3,20		11,12	12,14
	11,2,15,2	28,33,2	15,16	X,Y		21,26
			27,2,28,2	6,7		17,18
7DFBU7	<i>Identifiler® Plus</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11,2,15,2	28,33,2		X,Y	10,12	21,26
				6,7	6,8	17,18
7KZ4AC	<i>PowerPlex® 16</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33,2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
7MQCF8	<i>Identifiler® Plus</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11,2,15,2	28,33,2		X,Y	10,12	21,26
				6,7	6,8	17,18
87GZ6T	<i>Identifiler®</i>					
3	-	23,24	-	16	12,13	8,11
	12,14	-	-	10,11	11,12	12,14
	11,2,15,2	28,33,2	-	X,Y	10,12	21,26
	-	-	-	6,7	6,8	17,18
87YRED	<i>COfiler® and Profiler Plus®</i>					
3				16,16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33,2		X,Y	10,12	21,26
				6,7	6,8	17,18
8BA6WC	<i>Identifiler®</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11,2,15,2	28,33,2		X,Y	10,12	21,26
				6,7	6,8	17,18
8C6NXD	<i>COfiler® and Profiler Plus®</i>					
3				16,16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33,2		X,Y	10,12	21,26
				6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 3 - STR Results

8DUUE4	COfiler® and Profiler Plus®					
3				16,16	12,13	8,11
	12,14			10,11		12,14
		28,33.2		X,Y		21,26
						17,18
8M2R38	NGM Select					
3	15.3,16	23,24	11,11	16,16		
	12,14	13,13	19.3,20		11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y		21,26
			27.2,28.2	6,7		17,18
93ULCC	COfiler® and Profiler Plus®					
3				16,16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
982CDX	Identifiler®					
3		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
9H9RJ6	ESI17					
3	15.3,16	23,24	11,11	16,16		
	12,14	13,13	19.3,20		11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y		21,26
			27.2,28.2	6,7		17,18
9JFAH2	NGM SELECT					
3	15.3,16	23,24	11,11	16,16		
	12,14	13,13	19.3,20		11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y		21,26
			27.2,28.2	6,7		17,18
9W4C3E	Identifiler® Plus					
3		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
AAAGVR	PowerPlex® Fusion					
3	15.3,16	23,24	11	16	12,13	8,11
	12,14	13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
AD87AE	PowerPlex® 21					
3	15.3,16	23,24		16,16	12,13	8,11
	12,14		19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2			10,12	21,26
	10,13	8,12		6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 3 - STR Results

AJFLJ3	<i>Identifiler® Plus</i>					
3		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
AT2PQ2	<i>Identifiler® Plus</i>					
3		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
AY8JKX	<i>Identifiler® Identifiler Plus</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
B39RP8	<i>PowerPlex® 16</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
BCXFLV	<i>PowerPlex® Fusion</i>					
3	15.3,16	23,24	11	16	12,13	8,11
	12,14	13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
BNLEDX	<i>PowerPlex® Fusion</i>					
3	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
C7YNMX	<i>GlobalFiler</i>					
3	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	-	-	27.2,28.2	6,7	6,8	17,18
C93J7Z	<i>Identifiler® Plus</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
C97Z6Y	<i>Identifiler® Plus</i>					
3	-	23,24	-	16	12,13	8,11
	12,14	-	-	10,11	11,12	12,14
	11.2,15.2	28,33.2	-	X,Y	10,12	21,26
	-	-	-	6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 3 - STR Results

CC84ZR	<i>PowerPlex® Fusion</i>					
3	15,3,16	23,24	11	16	12,13	8,11
	12,14	13	19,3,20	10,11	11,12	12,14
	11,2,15,2	28,33,2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
CNGGF8	<i>Identifiler®</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11,2,15,2	28,33,2		X,Y	10,12	21,26
				6,7	6,8	17,18
CR37XY						
3				16,16	12,13	8,11
	12,14			10,11		12,14
		28,33,2		X,Y		21,26
						17,18
CTCBD9	<i>Identifiler®</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11,2,15,2	28,33,2		X,Y	10,12	21,26
				6,7	6,8	17,18
CV3HTY	<i>COfiler® and Profiler Plus®</i>					
3				16,16	12,13	8,11
	12,14			10,11		12,14
		28,33,2		X,Y		21,26
						17,18
D3WYM2	<i>PowerPlex® 16</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33,2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
DP7DDZ	<i>Promega ESI-17</i>					
3	15,3,16	23,24	11,11	16,16		
	12,14	13,13	19,3,20		11,12	12,14
	11,2,15,2	28,33,2	15,16	X,Y		21,26
			27,2,28,2	6,7		17,18
DU7G9T	<i>Identifiler® Plus</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11,2,15,2	28,33,2		X,Y	10,12	21,26
				6,7	6,8	17,18
E4MKTX	<i>Identifiler® Plus</i>					
3		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11,2,15,2	28,33,2		X,Y	10,12	21,26
				6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 3 - STR Results

E88C6Z	<i>PowerPlex® 16</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
E93V82	<i>PowerPlex® 16</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
EH83NM	<i>PowerPlex® Fusion</i>					
3	15.3,16	23,24	11	16	12,13	8,11
	12,14	13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
EKAZWU	<i>Identifiler®</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
EKTR4T	<i>Identifiler® Plus</i>					
3		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
EU2JB3	<i>PowerPlex® 16</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
EYRTL2	<i>PowerPlex® 16</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
FMVAFU	<i>COfiler® and Profiler Plus®</i>					
3				16,16	12,13	8,11
	12,14			10,11		12,14
		28,33.2		X,Y		21,26
						17,18
FXBWT2	<i>PowerPlex® 16 HS</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 3 - STR Results

FZ26YW	<i>Identifiler® Plus</i>					
3	-	23,24	-	16	12,13	8,11
	12,14	-	-	10,11	11,12	12,14
	11.2,15.2	28,33.2	-	X,Y	10,12	21,26
	-	-	-	6,7	6,8	17,18
G29W74	<i>Identifiler®</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
G9TZD7	<i>Identifiler® Plus</i>					
3		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
GCMRHW	<i>PowerPlex® ESI-17</i>					
3	15.3,16	23,24	11,11	16,16		
	12,14	13,13	19.3,20		11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y		21,26
			27.2,28.2	6,7		17,18
GFETRQ	<i>Identifiler® Plus</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
GJAKX3	<i>Identifiler®</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
GNLULQ	<i>NGM SElect</i>					
3	15.3,16	23,24	11,11	16,16		
	12,14	13,13	19.3,20		11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y		21,26
			27.2,28.2	6,7		17,18
GU8KA7	<i>GlobalFiler</i>					
3	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
			27.2,28.2	6,7	6,8	17,18
GY7YXW	<i>Identifiler® Plus</i>					
3		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 3 - STR Results

GZDGVR	<i>Identifiler® Plus</i>						
	3		23,24		16	12,13	8,11
		12,14			10,11	11,12	12,14
		11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18	
H6NRLZ	<i>Identifiler®</i>						
	3		23,24		16	12,13	8,11
		12,14			10,11	11,12	12,14
		11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18	
H6QGJT	<i>PowerPlex® Fusion</i>						
	3	15.3,16	23,24	11	16	12,13	8,11
		12,14	13	19.3,20	10,11	11,12	12,14
		11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18	
H7HDFR	<i>Identifiler® Plus</i>						
	3		23,24		16	12,13	8,11
		12,14			10,11	11,12	12,14
		11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18	
H9AG4T	<i>Profiler Plus®</i>						
	3				16,16	12,13	8,11
		12,14			10,11		12,14
			28,33.2		X,Y		21,26
						17,18	
HCN7AM	<i>GlobalFiler</i>						
	3	15.3,16	23,24	11	16	12,13	8,11
		12,14	13	19.3,20	10,11	11,12	12,14
		11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
			27.2,28.2	6,7	6,8	17,18	
HKFPNV	<i>PowerPlex® 16</i>						
	3				16	12,13	8,11
		12,14			10,11	11,12	12,14
			28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18	
HNEZJV	<i>PowerPlex® 16</i>						
	3				16	12,13	8,11
		12,14			10,11	11,12	12,14
			28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18	
HPAJLW	<i>PowerPlex® 16</i>						
	3				16	12,13	8,11
		12,14			10,11	11,12	12,14
			28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18	

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 3 - STR Results

KCJ9CW	<i>PowerPlex® 16 HS</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
L2U86L	<i>PowerPlex® Fusion, ESI 17, NGM Select</i>					
3	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12	27.2,28.2	6,7	6,8	17,18
L6THZL	<i>AmpFISTR NGM SElect</i>					
3	15.3,16	23,24	11,11	16,16		
	12,14	13,13	19.3,20		11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y		21,26
			27.2,28.2	6,7		17,18
LVA42P	<i>Identifiler® Plus</i>					
3		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
LWJUMM	<i>PowerPlex® Fusion</i>					
3	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
M6Q8LU	<i>PowerPlex® 16</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
M73KQQ	<i>Identifiler® Plus</i>					
3		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
M786EU	<i>PowerPlex® 16</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
MBEVGZ	<i>Identifiler® Plus</i>					
3		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 3 - STR Results

MF8R7Q	<i>PowerPlex® 16</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
MHEA6L	<i>Identifiler® Plus</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
MRPCQM	<i>Identifiler® ID+</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
MTV2NP	<i>Identifiler® Plus</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
N3Z94P	<i>ESI 17</i>					
3	15.3,16	23,24	11,11	16,16		
	12,14	13,13,[15]	19.3,20		11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y		21,26
			27.2,28.2	6,7		17,18
N4WGFF	<i>PowerPlex® ESX</i>					
3	15.3,16	23,24	11	16		
	12,14	13	19.3,20		11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y		21,26
			27.2,28.2	6,7		17,18
N8CCUR	<i>PowerPlex® 16</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
NQ7TJU	<i>PowerPlex® 16</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
PGDWWK	<i>PowerPlex® Fusion</i>					
3	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 3 - STR Results

PHAC8V	<i>COfiler® and Profiler Plus®</i>					
3				16,16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
PL9QUL	<i>Identifiler® Identifiler Plus</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
PNE9TG	<i>Identifiler® Plus</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
PU2YEC	<i>PowerPlex® Fusion</i>					
3	15.3,16	23,24	11	16	12,13	8,11
	12,14	13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
PVY99U	<i>Identifiler®</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
PWURAV	<i>COfiler® and Profiler Plus®</i>					
3				16,16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
Q9GGKK	<i>Identifiler®</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
QCGRGK	<i>Identifiler®</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
QTQJJP	<i>PowerPlex® 16</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 3 - STR Results

R2WM6E	<i>Identifiler® Plus, PowerPlex® 21</i>					
3	15.3,16	23,24		16,16	12,13	8,11
	12,14		19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
RCX99T	<i>Globalfiler</i>					
3	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
			27.2,28.2	6,7	6,8	17,18
RMXYTE	<i>Identifiler® Plus</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
TD2HGF	<i>Identifiler® Identifiler Plus, MiniFiler</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
TJMF3H	<i>Identifiler® Plus</i>					
3	-	23,24	-	16	12,13	8,11
	12,14	-	-	10,11	11,12	12,14
	11.2,15.2	28,33.2	-	X,Y	10,12	21,26
	-	-	-	6,7	6,8	17,18
TR8CAD	<i>Identifiler®</i>					
3		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
TT3UCE	<i>Identifiler® Plus</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
UC7ZEE	<i>PowerPlex® Fusion</i>					
3	15.3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19.3,20	10,11	11,12	12,14
	11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
UHX8XM	<i>PowerPlex® PP16 HS</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 3 - STR Results

UT9WBJ	<i>PowerPlex® 16</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
UU6CMF	<i>Identifiler® Identifiler Plus</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
V4AJ3F	<i>Identifiler® Plus</i>					
3		23,24		16,16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
V7G22B	<i>Identifiler® Plus</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
VCMF4F	<i>COfiler® and Profiler Plus®</i>					
3				16,16	12,13	8,11
	12,14			10,11		12,14
		28,33.2		X,Y		21,26
						17,18
VE8KFJ	<i>PowerPlex® 16</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
VJ4BJB	<i>Identifiler®</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11.2,15.2	28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18
VTYHJ	<i>PowerPlex® 16</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
VYFMDP	<i>COfiler® and Profiler Plus®</i>					
3				16,16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33.2		X,Y	10,12	21,26
				6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 3 - STR Results

W6Z69C	<i>PowerPlex® Fusion</i>	3	15,3,16	23,24	11,11	16,16	12,13	8,11
			12,14	13,13	19,3,20	10,11	11,12	12,14
			11.2,15.2	28,33.2	15,16	X,Y	10,12	21,26
			10,13	8,12	-	6,7	6,8	17,18
WP8GYD	<i>Identifiler®</i>	3		23,24		16	12,13	8,11
			12,14			10,11	11,12	12,14
			11.2,15.2	28,33.2		X,Y	10,12	21,26
						6,7	6,8	17,18
WPNQRE	<i>Identifiler® Plus</i>	3		23,24		16,16	12,13	8,11
			12,14			10,11	11,12	12,14
			11.2,15.2	28,33.2		X,Y	10,12	21,26
						6,7	6,8	17,18
X9EYP9	<i>Identifiler® Plus</i>	3		23,24		16,16	12,13	8,11
			12,14			10,11	11,12	12,14
			11.2,15.2	28,33.2		X,Y	10,12	21,26
						6,7	6,8	17,18
XAAHQB	<i>Identifiler® Plus</i>	3		23,24		16	12,13	8,11
			12,14			10,11	11,12	12,14
			11.2,15.2	28,33.2		X,Y	10,12	21,26
						6,7	6,8	17,18
XH2Z6J	<i>PowerPlex® 16</i>	3				16	12,13	8,11
			12,14			10,11	11,12	12,14
				28,33.2		X,Y	10,12	21,26
			10,13	8,12		6,7	6,8	17,18
XVQZVL	<i>Identifiler®</i>	3		23,24		16	12,13	8,11
			12,14			10,11	11,12	12,14
			11.2,15.2	28,33.2		X,Y	10,12	21,26
						6,7	6,8	17,18
YFRBFF	<i>PowerPlex® 16</i>	3				16	12,13	8,11
			12,14			10,11	11,12	12,14
				28,33.2		X,Y	10,12	21,26
			10,13	8,12		6,7	6,8	17,18
YN3W2N	<i>Identifiler® Plus</i>	3		23,24		16,16	12,13	8,11
			12,14			10,11	11,12	12,14
			11.2,15.2	28,33.2		X,Y	10,12	21,26
						6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 3 - STR Results

YTKUW7	<i>PowerPlex® Fusion</i>					
3	15,3,16	23,24	11	16	12,13	8,11
	12,14	13	19,3,20	10,11	11,12	12,14
	11,2,15,2	28,33,2	15,16	X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18
YZJJDA	<i>Identifiler® Plus</i>					
3		23,24		16	12,13	8,11
	12,14			10,11	11,12	12,14
	11,2,15,2	28,33,2		X,Y	10,12	21,26
				6,7	6,8	17,18
Z3Z898	<i>Profiler Plus®</i>					
3				16,16	12,13	8,11
	12,14			10,11		12,14
		28,33,2		X,Y		21,26
						17,18
ZX7AZ4	<i>PowerPlex® ESX, HS, NGM</i>					
3	15,3,16	23,24	11	16	12,13	8,11
	12,14	13	19,3,20	10,11	11,12	12,14
	11,2,15,2	28,33,2	15,16	X,Y	10,12	21,26
	10,13	8,12	27,2,28,2	6,7	6,8	17,18
ZYYZ7H	<i>PowerPlex® 16</i>					
3				16	12,13	8,11
	12,14			10,11	11,12	12,14
		28,33,2		X,Y	10,12	21,26
	10,13	8,12		6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 3e - STR Results

HDZQEQ PowerPlex® FUSION

3e	15,3,16	23,24	11,11	16,16	12,13	8,11
	12,14	13,13	19,3,20	10,11	11,12	12,14
	11,2,15,2	28,33,2	15,16	X,Y	10,12	21,26
	10,13	8,12	-	6,7	6,8	17,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 3sp - STR Results

HDZQEQ PowerPlex® FUSION

3sp	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND
	ND	ND	-	ND	ND	ND

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4 - STR Results

7CME8X	NGM select					
4	15,[16],17.3	[17],21,[23],24	[10],[11],14,14	15,[16],17		
	14,14	12,[14],15,[17]	15,18,[20],[23]		9,11,[13]	16,[18],19,[21]
	13,14.2,[15.2]	[28],30,[30.2],32	14,15,[17]	X,[Y]		[21],22,25
			14,18,[21.2],[23.2]	7,9		[14],16,[18],19
87GZ6T	Identifiler® Plus					
4	-	17,21,23,24	-	15,16,17	11,13	9,11,13
	14	-	-	10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32	-	X,Y	11,12	21,22,25
	-	-	-	7,9	8	14,16,18,19
C97Z6Y	Identifiler® Plus					
4	-	17,21,23,24	-	15,16,17	11,13	9,11,13
	14	-	-	10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32	-	X,Y	11,12	21,22,25
	-	-	-	7,9	8	14,16,18,19
FZ26YW	Identifiler® Plus					
4	-	17,21,23,24	-	15,16,17	11,13	9,11,13
	14	-	-	10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32	-	X,Y	11,12	21,22,25
	-	-	-	7	8	14,16,18,19
GNLULQ	NGM SElect					
4	[15],16,17.3	17,[21],23,[24]	10,11,[14]	15,16,[17]		
	14	[12],14,[15],17	[15],[18],20,23		[9],11,13	[16],18,[19],21
	13,[14.2],15.2	28,[30],30.2,[32]	[14],15,17	X,Y		21,22,[25]
			[14],[18],21.2,23.2	7,[9]		14,[16],18,[19]
H9AG4T	Profiler Plus®					
4				15,16	11,13	9,11
	14,14			10,12		18,21
		28,30.2		X,Y		21,22
						14,18
L2U86L	PowerPlex® Fusion, ESI 17, NGM Select					
4	15,16,17.3	17,21,23,24	10,11,14	15,16,17	11,13	9,11,13
	14,14	12,14,15,17	15,18,20,23	10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32	14,15,17	X,Y	11,12	21,22,25
	8,9,10	5,12,13	14,18,21.2,23.2	7,9	8,8	14,16,18,19
L6THZL	PowerPlex® ESX 17, AmpFISTR NGM SElect					
4	15,16,17.3	17,21,23,24	10,11,14	15,16,17		
	14	12,14,15,17	15,18,20,23		9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32	14,15,17	X,Y		21,22,25
			14,18,21.2,23.2	7,9		14,16,18,19
VCMF4F	COfiler® and Profiler Plus®					
4				15,16,17	11,13	11,13
	14,14			12,13,14		16,18,19
		28,30,30.2,32		X,Y		21,22,25
						14,16,18,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4 - STR Results

Z3Z898	Profiler Plus®					
4				15,16	11,13	9,11
	14,14			10,12		18,21
		28,30.2		X,Y		21,22
						14,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4BN - STR Results

FMVAFU	COfiler® and Profiler Plus® , Identifiler®					
4BN		17,21,23		15,16,17	11,13	9,11
	14,14			10,12,13	9,11,13	18,21
	13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22
				7,7	8,8	14,16,18,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4e - STR Results

26ZXUC	<i>PowerPlex® 16</i>					
4e				15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
		28,30,30.2,32		X,Y	12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19
2J4X44	<i>PowerPlex® ESI16</i>					
4e	[15],16,17.3	17,23	10,11,[14]	15,16,[17]		
	14	[12],14,[15],17	[15],20,23		[9],11,13	[16],18,[19],21
	13,[14.2],15.2	28,[30],30.2	15,17	X,Y		21,22,[25]
				7,[9]		14,[16],18,[19]
2M49Z4	<i>Identifiler® Plus, PowerPlex® 16 HS</i>					
4e		17,21,23,24		15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19
2QZWC6	<i>Identifiler® Plus</i>					
4e		(17),21,(23),24		15,(16),17	11,13	(9),11,13
	14,14			(10),(12),13,14	9,11,(13)	16,(18),19,(21)
	13,14.2,(15.2)	(28),30,(30.2),32		X,(Y)	(11),12	(21),22,25
				7,(9)	8,8	(14),16,(18),19
2VEULD	<i>PowerPlex® 16</i>					
4e				15,[16],17	11,13	[9],11,13
	14			[10],[12],13,14	9,11,[13]	16,[18],19,[21]
		[28],30,[30.2],32		X,[Y]	[11],12	[21],22,25
	8,[9],10	[5],12,13		7,9	8	[14],16,[18],19
2Z9QB4	<i>GlobalFiler</i>					
4e	15,[16],17.3	[17],21,[23],24	[10],[11],14	15,[16],17	11,13	[9],11,13
	14	12,[14],15,[17]	15,18,[20],[23]	[10],[12],13,14	9,11,[13]	16,[18],19,[21]
	13,14.2,[15.2]	[28],30,[30.2],32	14,15,[17]	X,[Y]	[11],12	[21],22,25
			14,18,[21.2],[23.2]	7,9	8	[14],16,[18],19
32G4QK	<i>Identifiler® Plus</i>					
4e		17,21,23,24		15,16,17	11,13	9,11,13
	14			10,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,Y	12	21,22,25
				7,9	8	14,16,18,19
3B7RN9	<i>Identifiler® Plus</i>					
4e		17,21,23,24		15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22,25
				7,9	8	14,16,18,19
3H84K6	<i>Identifiler® Plus</i>					
4e		17,21,23,24		15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22,25
				7,9	8	14,16,18,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4e - STR Results

43ABCA	<i>Identifiler® Plus</i>					
4e		17,21,23,24		15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22,25
				7,9	8	14,16,18,19
46AKGJ	<i>PowerPlex® 21</i>					
4e	15,16,17.3	17,21,23,24		15,16,17	11,13	9,11,13
	14		15,18,20,23	10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,Y	12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19
48G3EF	<i>Identifiler®</i>					
4e		[17],21,[23],24		15,[16],17	11,13	[9],11,13
	14,14			[10],[12],13,14	9,11,[13]	16,[18],19,[21]
	13,14.2,[15.2]	[28],30,[30.2],32		X,X,[Y]	12,12	[21],22,25
				7,9	8,8	[14],16,[18],19
4EY9D8	<i>Identifiler® Plus</i>					
4e		[17],21,[23],24		15,[16],17	11,13	[9],11,13
	14,14			[10],[12],13,14	9,11,[13]	16,[18],19,[21]
	13,14.2,[15.2]	[28],30,[30.2],32		X,X,[Y]	[11],12,12	[21],22,25
				7,9	8,8	[14],16,[18],19
4LHEAE	<i>PowerPlex® 16</i>					
4e				15,[16],17	11,13	[9],11,13
	14			[10],[12],13,14	9,11,[13]	16,18,19,21
		28,30,30.2,32		X,[Y]	12	21,22,25
	8,[9],10	5,12,13		7,9	8	14,16,18,19
4LLXZ3	<i>PowerPlex® ESI17, and NGMSelect</i>					
4e	15,16,17.3	17,21,23,24	10,11,14	15,16,17		
	14	12,14,15,17	15,18,20,23		9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32	14,15,17	X,Y		21,22,25
			14,18,21.2,23.2	7,9		14,16,18,19
674R29	<i>PowerPlex® 16</i>					
4e				15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
		28,30,30.2,32		X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19
68Y9E6	<i>Identifiler® Plus</i>					
4e		17,21,23,24		15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22,25
				7,9	8	14,16,18,19
6CQHN4	<i>PowerPlex® Fusion</i>					
4e	15,16,17.3	17,21,23,24	10,11,14	15,16,17	11,13	9,11,13
	14,14	12,14,15,17	15,18,20,23	10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32	14,15,17	X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8,8	14,16,18,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4e - STR Results

6EWZMY	<i>PowerPlex® Fusion</i>						
	4e	15,16,17.3	17,21,23,24	10,11,14	15,16,17	11,13	9,11,13
		14	12,14,15,17	15,18,20,23	10,12,13,14	9,11,13	16,18,19,21
		13,14.2,15.2	28,30,30.2,32	14,15,17	X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19	
7DFBU7	<i>Identifiler® Plus</i>						
	4e		17,21,23,24		15,16,17	11,13	9,11,13
		14			10,12,13,14	9,11,13	16,18,19,21
		13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22,25
				7,9	8	14,16,18,19	
7KZ4AC	<i>PowerPlex® 16</i>						
	4e				15,16,17	11,13	9,11,13
		14			10,12,13,14	9,11	16,18,19,21
			30,32		X,Y	12	22,25
	8,9,10	5,12,13		7,9	8	16,18,19	
7MQCF8	<i>Identifiler® Plus</i>						
	4e		17,21,23,24		15,16,17	11,13	9,11,13
		14			10,12,13,14	9,11,13	16,18,19,21
		13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22,25
				7,9	8	14,16,18,19	
87YRED	<i>COfiler® and Profiler Plus®</i>						
	4e				15,16,17	11,13	9,11,[13]
		14,14			10,12,[13],[14]	9,11,13	[16],18,[19],21
			28,[30],30.2,[32]		X,Y	11,12	21,22,[25]
				7,7,[9]	8,8	14,[16],18,[19]	
8BA6WC	<i>Identifiler®</i>						
	4e		17,21,23,24		15,16,17	11,13	9,11,13
		14			10,12,13,14	9,11,13	16,18,19,21
		13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22,25
				7,9	8	14,16,18,19	
8C6NXD	<i>COfiler® and Profiler Plus®</i>						
	4e				15,[16],17	11,13	11,13
		14,14			13,14	9,11,[13]	16,[18],19
			30,32		X,X,[Y]	[11],12,12	[21],22,25
				7,9	8,8	[14],16,[18],19	
8DUUE4	<i>COfiler® and Profiler Plus®</i>						
	4e				15,16,17	11,13	9,11,13
		14,14			10,12,13,14		16,18,19,21
			28,30,30.2,32		X,Y		21,22,25
						14,16,18,19	
8M2R38	<i>NMG Select</i>						
	4e	15,[16],17.3	[17],21,[23],24	[10],[11],14	15,[16],17		
		14,14	12,[14],15,[17]	15,18,[20],[23]		9,11,[13]	16,[18],19,[21]
		13,14.2,[15.2]	[28],30,[30.2],32	14,15,[17]	X,[Y]		[21],22,25
			14,18,[21.2],[23.2]	7,9		[14],16,[18],19	

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4e - STR Results

93ULCC	COfiler® and Profiler Plus®					
4e				15,16,17	11,13	9,11,13
	14,14			10,12,13,14	9,11,13	16,18,19,21
		28,30,30.2,32		X,Y	11,12	21,22,25
				7,7,[9]	8,8	14,16,18,19
982CDX	Identifiler®					
4e		[17],21,[23],24		15,[16],17	11,13	[9],11,13
	14,14			[10],[12],13,14	9,11,[13]	16,[18],19,[21]
	13,14.2,[15.2]	[28],30,[30.2],32		X,Y	[11],12	[21],22,25
				7,9	8,8	[14],16,[18],19
9H9RJ6	ESI17					
4e	15,16,17.3	17,21,23,24	10,11,14	15,16,17		
	14	12,14,15,17	15,18,20,23		9,11,13	16,[17],18,19,[20],21
	13,14.2,15.2	28,30,30.2,32	14,15,[16],17,[18]	X,Y		21,22,25
			14,18,21.2,23.2	7,9		14,16,18,19
9JFAH2	NGM SELECT					
4e	15,17.3	[17],21,24	[10],[11],14,14	15,[16],17		
	[11.2],14,14	12,15,[17]	15,18,[20],[23]		9,11,[13]	16,[18],19,[21]
	13,14.2,[15.2]	[28],30,[30.2],32	14,15,[17]	X,X,[Y]		22,25
			14,18,[21.2],[23.2]	7,9		[14],16,19
9W4C3E	Identifiler® Plus					
4e		17,21,23,24		15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,Y	12	21,22,25
				7,9	8	14,16,18,19
AAAGVR	PowerPlex® Fusion					
4e	15,16,17.3	17,21,23,24	10,11,14	15,16,17	11,13	9,11,13
	14	12,14,15,17	15,18,20,23	10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32	14,15,17	X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19
AD87AE	PowerPlex® 21					
4e	15,16,17.3	17,21,23,24		15,16,17	11,13,14	9,11,13
	14,14		15,18,20,23	10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,[Y]	11,12	21,22,25
	8,9,10	5,12,13		7,9	8,8	14,16,18,19
AJFLJ3	Identifiler® Plus					
4e		[17],21,[23],24		15,[16],17	11,13	[9],11,13
	14,14			[10],[12],13,14	9,11,[13]	16,[18],19,[21]
	13,14.2,[15.2]	[28],30,[30.2],32		X,X,[Y]	[11],12,12	[21],22,25
				7,9	8,8	[14],16,[18],19
AT2PQ2	Identifiler® Plus					
4e		[17],21,[23],24		15,[16],17	11,13	[9],11,13
	14,14			[10],[12],13,14	9,11,[13]	16,[18],19,[21]
	13,14.2,[15.2]	[28],30,[30.2],32		X,X,[Y]	[11],12,12	[21],22,25
				7,9	8,8	[14],16,[18],19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4e - STR Results

AY8JKX	<i>Identifiler® Identifiler Plus</i>					
4e		17,21,23,24		15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22,25
				7,9	8	14,16,18,19
B39RP8	<i>PowerPlex® 16</i>					
4e				15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
		28,30,30.2,32		X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19
BCXFLV	<i>PowerPlex® Fusion</i>					
4e	15,16,17.3	17,21,23,24	10,11,14	15,16,17	11,13	9,11,13
	14	12,14,15,17	15,18,20,23	10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32	14,15,17	X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19
BNLEDX	<i>PowerPlex® Fusion</i>					
4e	15,16,17.3	17,21,23,24	10,11,14	15,16,17	11,13	9,11,13
	14,14	12,14,15,17	15,18,20,23	12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32	14,15	X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8,8	14,16,18,19
C7YNMX	<i>GlobalFiler</i>					
4e	15,17.3	21,24	14	15,17	11,13	11,13
	14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X	12	22,25
	-	-	14,18	7,9	8	16,19
C93J7Z	<i>Identifiler® Plus</i>					
4e		17,21,23,24		15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22,25
				7,9	8	14,16,18,19
CC84ZR	<i>PowerPlex® Fusion</i>					
4e	15,16,17.3	17,21,23,24	10,11,14	15,16,17	11,13	9,11,13
	14	12,14,15,17	15,18,20,23	10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32	14,15,17	X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19
CNGGF8	<i>Identifiler®</i>					
4e		17,21,23,24		15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X	12	21,22,25
				7,9	8	14,16,18,19
CR37XY	<i>COfiler® and Profiler Plus®</i>					
4e				15,16,17	11,13	9,11,13
	14,14			10,12,13,14		16,18,19,21
		28,30,30.2,32				21,22,25
						14,16,18,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4e - STR Results

CTCBD9	<i>Identifiler®</i>					
	4e	21,24		15,16,17	11,13	11,13
		14		10,12,13,14	9,11	16,19
		13,14.2,15.2	28,30,30.2,32	X,Y	12	21,22,25
			7,9	8	14,16,18,19	
CV3HTY	<i>COfiler® and Profiler Plus®</i>					
	4e			15,16,17	11,13	9,11,13
		14,14		10,12,13,14		16,18,19,21
			28,30,30.2,32	X,Y		21,22,25
					14,16,18,19	
D3WYM2	<i>PowerPlex® 16</i>					
	4e			15,[16],17	11,13	9,11,13
		14		10,12,13,14	9,11,[13]	16,[18],19,[21]
			28,30,30.2,32	X,[Y]	[11],12	21,22,25
	8,[9],10	[5],12,13	7,[9]	8	14,16,18,19	
DP7DDZ	<i>Promega ES1-17</i>					
	4e	15,16,[17.1],17.3	17,21,23,24	10,11,14	15,16,17	
		14,14	12,14,15,17	15,18,20,[22],23	9,11,13	16,18,19,[20],21
		13,14.2,15.2,[16.2]	28,30,30.2,32	14,15,[16],17,[18]	X,[Y]	21,22,25
			[10.2],14,18,21.2,[22],23.2	7,9	14,16,18,19	
DU7G9T	<i>Identifiler® Plus</i>					
	4e		[17],21,[23],24	15,[16],17	11,13	9,11,13
		14		10,12,13,14	9,11,[13]	16,[18],19,[21]
		13,14.2,[15.2]	[28],30,[30.2],32	X,[Y]	[11],12	[21],22,25
			7,9	8	[14],16,[18],19	
E4MKTX	<i>Identifiler® Plus</i>					
	4e		[17],21,[23],24	15,[16],17	11,13	[9],11,13
		14,14		[10],[12],13,14	9,11,[13]	16,[18],19,[21]
		13,14.2,[15.2]	[28],30,[30.2],32	X,X,[Y]	[11],12,12	[21],22,25
			7,9	8,8	[14],16,[18],19	
E88C6Z	<i>PowerPlex® 16</i>					
	4e			15,16,17	11,13	9,11,13
		14		10,12,13,14	9,11,13	16,18,19,21
			28,30,30.2,32	X,Y	12	21,22,25
	8,9,10	5,12,13	7,9	8	14,16,18,19	
E93V82	<i>PowerPlex® 16</i>					
	4e			15,16,17	11,13	9,11,13
		14		10,12,13,14	9,11,13	16,18,19,21
			28,30,30.2,32	X,Y	11,12	21,22,25
	8,9,10	5,12,13	7,9	8	14,16,18,19	
EH83NM	<i>PowerPlex® Fusion</i>					
	4e	15,16,17.3	17,21,23,24	10,11,14	15,16,17	11,13
		14	12,14,15,17	15,18,20,23	10,12,13,14	9,11,13
		13,14.2,15.2	28,30,30.2,32	14,15,17	X,Y	11,12
	8,9,10	5,12,13	7,9	8	14,16,18,19	

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4e - STR Results

EKAZWU	<i>Identifiler®</i>					
	4e	17,21,23,24		15,16,17	11,13	9,11,13
		14		10,12,13,14	9,11,13	16,18,19,21
		13,14.2,15.2	28,30,30.2,32	X,Y	11,12	21,22,25
			7,9	8	14,16,18,19	
EKTR4T	<i>Identifiler® Plus</i>					
	4e	17,21,23,24		15,16,17	11,13	9,11,13
		14,14		10,12,13,14	9,11,13	16,18,19,21
		13,14.2,15.2	28,30,30.2,32	X,X	11,12	21,22,25
			7,9	8,8	16,18,19	
EU2JB3	<i>PowerPlex® 16</i>					
	4e			15,16,17	11,13	9,11,13
		14		10,12,13,14	9,11,13	16,18,19,21
			28,30,30.2,32	X,Y	11,12	21,22,25
	8,9,10	5,12,13	7,9	8	14,16,18,19	
EYRTL2	<i>PowerPlex® 16</i>					
	4e			15,17,(@)	11,13	11,13,(@)
		14		(12),13,14,(@)	9,11,(13)	16,19,(@)
			30,32,(@)	X,(Y)	12	(21),22,25
	8,(9),10	(5),12,13	7,9	8	16,(18),19,(@)	
FXBWT2	<i>PowerPlex® 16 HS</i>					
	4e			15,16,17	11,13	9,11,13
		14		10,12,13,14	9,11,13	16,18,19,21
			28,30,30.2,32	X,Y	11,12	21,22,25
	8,9,10	5,12,13	7,*9	8	14,16,18,19	
G29W74	<i>Identifiler®</i>					
	4e	17,21,23,24		15,16,17	11,13	9,11,13
		14		10,12,13,14	9,11,13	16,18,19,21
		13,14.2,15.2	28,30,30.2,32	X,Y	11,12	21,22,25
			7,9	8	14,16,18,19	
G9TZD7	<i>Identifiler® Plus</i>					
	4e	[17],21,[23],24		15,[16],17	11,13	[9],11,13
		14		[10],[12],13,14	9,11,[13]	16,[18],19,[21]
		13,14.2,[15.2]	[28],30,[30.2],32	X,[Y]	[11],12	[21],22,25
			7,9	8	[14],16,[18],19	
GCNRHW	<i>PowerPlex® ESI-17</i>					
	4e	15,16,17.3	17,21,23,24	10,11,14	15,16,17	
		14	12,14,15,17	15,18,20,23		9,11,13
		13,14.2,15.2	28,30,30.2,32	14,15,17	X,Y	21,22,25
			14,18,21.2,23.2	7,9	14,16,18,19	
GFETRQ	<i>Identifiler® Plus</i>					
	4e	17,21,23,24		15,16,17	11,13	9,11,13
		14		10,12,13,14	9,11,13	16,18,19,21
		13,14.2,15.2	28,30,30.2,32	X,Y	11,12	21,22,25
			7,9	8	14,16,18,19	

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4e - STR Results

GJAKX3	<i>Identifiler®</i>					
4e		17,21,23,24		15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22,25
				7,9	8	14,16,18,19
GU8KA7	<i>GlobalFiler</i>					
4e	15,[16],17.3	[17],21,[23],24	[10,11],14	15,[16],17	11,13	[9],11,13
	14,14	12,[14],15,[17]	15,18,[20],[23]	[10],[12],13,14	9,11,[13]	16,[18],19,[21]
	13,14.2,[15.2]	[28],30,[30.2],32	14,15,[17]	X,[Y]	12,12	[21],22,25
			14,18,[21.2],[23.2]	7,9	8,8	[14],16,[18],19
GY7YXW	<i>Identifiler® Plus</i>					
4e		[17],21,[23],24		15,[16],17	11,13	[9],11,13
	14,14			[10],[12],13,14	9,11,[13]	16,[18],19,[21]
	13,14.2,[15.2]	[28],30,[30.2],32		X,X,[Y]	[11],12,12	[21],22,25
				7,9	8,8	[14],16,[18],19
GZDGVR	<i>Identifiler® Plus</i>					
4e		[17],21,[23],24		15,[16],17	11,13	[9],11,13
	14			[10],[12],13,14	9,11,[13]	16,[18],19,[21]
	13,14.2,[15.2]	[28],30,[30.2],32		X,[Y]	12	[21],22,25
				7,9	8	[14],16,[18],19
H6NRLZ	<i>Identifiler®</i>					
4e		17,21,23,24		15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22,25
				7,9	8	14,16,18,19
H6QGTJ	<i>PowerPlex® Fusion</i>					
4e	15,16,17.3	17,21,23,24	10,11,14	15,16,17	11,13	9,11,13
	14	12,14,15,17	15,18,20,23	10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32	14,15,17	X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19
H7HDFR	<i>Identifiler® Plus</i>					
4e		17,21,23,24		15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22,25
				7,9	8	14,16,18,19
HCN7AM	<i>GlobalFiler</i>					
4e	15,16,17.3	17,21,23,24	10,11,14	15,16,17	11,13	9,11,13
	14	12,14,15,17	15,18,20,23	10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32	14,15,17	X,Y	11,12	21,22,25
			14,18,21.2,23.2	7,9	8	14,16,18,19
HDZQEQ	<i>PowerPlex® FUSION</i>					
4e	15,16,17.3	17,21,23,24	10,11,14	15,16,17	11,13	9,11,13
	14,14	12,14,15,17	15,18,20,23	10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32	14,15	X,Y	11,12	21,22,25
	8,9,10	5,12,13	-	7,9	8,8	14,16,18,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4e - STR Results

HKFPNV	PowerPlex® 16					
4e				15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
		28,30,30.2,32		X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19
HNEZJV	PowerPlex® 16					
4e				15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
		28,30,30.2,32		X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19
HPAJLW	PowerPlex® 16					
4e				15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
		28,30,30.2,32		X,Y	11,12	21,22,25
	8,10	12,13		7,9	8	14,16,18,19
KCJ9CW	PowerPlex® 16 HS					
4e				15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
		28,30,30.2,32		X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19
LVA42P	Identifiler® Plus					
4e		[17],21,[23],24		15,[16],17	11,13	[9],11,13
	14,14			[10],[12],13,14	9,11,[13]	16,[18],19,[21]
	13,14.2,[15.2]	[28],30,[30.2],32		X,X,[Y]	[11],12,12	[21],22,25
				7,9	8,8	[14],16,[18],19
LWJUMM	PowerPlex® Fusion					
4e	15,17.3	21,24	14,14	15,17	11,13	11,13
	14,14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X,X	12,12	22,25
	8,10	12,13		7,9	8,8	16,19
M6Q8LU	PowerPlex® 16					
4e				15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11	16,18,19,21
		28,30,32		X,Y	11,12	21,22,25
	8,9,10	12,13		7,9	8	16,18,19
M73KQQ	Identifiler® Plus					
4e		[17],21,[23],24		15,[16],17	11,13	[9],11,13
	14,14			[10],[12],13,14	9,11	16,[18],19,[21]
	13,14.2,[15.2]	[28],30,[30.2],32		X,X	[11],12,12	[21],22,25
				7,9	8,8	[14],16,[18],19
M786EU	PowerPlex® 16					
4e				15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
		28,30,30.2,32		X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4e - STR Results

MBEVGZ	<i>Identifiler® Plus</i>					
4e		17,21,24		15,16,17	11,13	9,11,13
	14			10,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,Y	12	22,25
				7,9	8	14,16,18,19
MF8R7Q	<i>PowerPlex® 16</i>					
4e				15,17	11,13	9,11,13
	14			12,13,14	9,11,13	16,19,21
		28,30,30.2,32		X,X	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,19
MHEA6L	<i>Identifiler® Plus</i>					
4e		[17],21,[23],24		15,[16],17	11,13	9,11,13
	14			10,12,13,14	9,11,[13]	16,[18],19,[21]
	13,14.2,[15.2]	28,30,30.2,32		X,[Y]	[11],12	[21],22,25
				7,9	8	[14],16,[18],19
MRPCQM	<i>Identifiler® ID+</i>					
4e		(17),21,(23),24		15,(16),17	11,13	(9),11,13
	14			10,12,13,14	9,11,(13)	16,(18),19,(21)
	13,14.2,(15.2)	(28),30,(30.2),32		X,(Y)	(11),12	21,22,25
				7,9	8	(14),16,(18),19
MTV2NP	<i>Identifiler® Plus</i>					
4e		21,24		15,17	11,13	11,13
	14			13,14	9,11	16,19
	13,14.2	30,32		X,X	12	22,25
				7,9	8	16,19
N3Z94P	<i>ESI 17</i>					
4e	15,16,17.3	17,21,23,24	10,11,14	15,16,17		
	14,14	12,14,15,17	15,18,20,23		9,11,13	16,18,19,21
	13,(13.2),14.2,15.2	28,(29),30,30.2,32	14,15,(16),17	X,Y		21,22,25
			14,18,21.2,23.2	7,9		14,16,18,19
N4WGFF	<i>PowerPlex® ESX</i>					
4e	15,17.3	21,24	14	15,17		
	14	12,15	15,18		9,11	16,19
	13,14.2	30,32	14,15	X		22,25
			14,18	7,9		16,19
N8CCUR	<i>PowerPlex® 16</i>					
4e				15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
		28,30,30.2,32		X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19
NQ7TJU	<i>PowerPlex® 16</i>					
4e				15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
		28,30,30.2,32		X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4e - STR Results

PGDWWK	<i>PowerPlex® Fusion</i>					
4e	15,16,17.3	17,21,23,24	10,11,14	15,16,17	11,13	9,11,13
	14,14	12,14,15,17	15,18,20,23	10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32	14,15,17	X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8,8	14,16,18,19
PHAC8V	<i>COfiler® and Profiler Plus®</i>					
4e				15,16	11,13	9,11
	14,14			Inc.	11,13	Inc.
		28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18
PL9QUL	<i>Identifiler® Identifiler Plus</i>					
4e		17,21,23,24		15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22,25
				7,9	8	14,16,18,19
PNE9TG	<i>Identifiler® Plus</i>					
4e		17,21,23,24		15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22,25
				7,9	8	14,16,18,19
PU2YEC	<i>PowerPlex® Fusion</i>					
4e	15,16,17.3	17,21,23,24	10,11,14	15,16,17	11,13	9,11,13
	14	12,14,15,17	15,18,20,23	10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32	14,15,17	X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19
PVY99U	<i>Identifiler®</i>					
4e		17,21,23,24		15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22,25
				7,9	8	14,16,18,19
PWURAV	<i>COfiler® and Profiler Plus®</i>					
4e				15,[16],17	11,13	[9],11,13
	14,14			[10],[12],13,14	9,11,[13]	16,[18],19
		28,30,30.2,32		X,X,[Y]	[11],12,12	[21],22,25
				7,9	8,8	[14],16,[18],19
Q9GGKK	<i>Identifiler®</i>					
4e		[17],21,23,24		15,[16],17	11,13	[9],11,[13]
	14			10,12,13,14	9,11,[13]	16,18,19,21
	13,14.2,[15.2]	28,30,30.2,32		X,[Y]	[11],12	[21],22,[25]
				7,[9]	8	14,16,18,19
QCGRGK	<i>Identifiler®</i>					
4e		[17],21,[23],24		15,[16],17	11,13	[9],11,13
	14			10,[12],13,14	9,11,[13]	16,[18],19,[21]
	13,14.2,[15.2]	28,30,30.2,32		X,[Y]	[11],12	[21],22,[25]
				7,[9]	8	[14],16,[18],19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4e - STR Results

QTQJP	<i>PowerPlex® 16</i>					
4e				15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
		28,30,30.2,32		X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19
R2WM6E	<i>Identifiler® Plus, PowerPlex® 21</i>					
4e	15,[16],17.3	[17],21,[23],24		15,[16],17	11,13	[9],11,13
	14,14		15,18,[20],[23]	[10],[12],13,14	9,11,[13]	16,[18],19,[21]
	13,14.2,[15.2]	[28],30,[30.2],32		X,[Y]	12,12	[21],22,25
	8,[9],10	[5],12,13		7,9	8,8	[14],16,[18],19
RCX99T	<i>Globalfiler</i>					
4e	15,[16],17.3	[17],21,[23],24	[10],[11],14,14	15,[16],17	11,13	[9],11,13
	14,14	12,[14],15,[17]	15,18,[23]	[10],[12],13,14	9,11	16,[18],19,[21]
	13,14.2,[15.2]	[28],30,[30.2],32	14,15	X,X,[X],[Y]	12,12	[21],22,25
			14,18,[21.2],[23.2]	7,9	8,8	16,[18],19
RMXYTE	<i>Identifiler® Plus</i>					
4e		17,21,23,24		15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,[13]	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,[Y]	[11],12	21,22,25
				7,9	8	14,16,18,19
TD2HGF	<i>Identifiler® Identifiler Plus</i>					
4e		[17],21,[23],24		15,[16],17	11,13	9,11,13
	14			10,12,13,14	9,11,[13]	16,[18],19,[21]
	13,14.2,[15.2]	28,30,30.2,32		X,Y	[11],12	[21],22,25
				7,9	8	[14],16,[18],19
TJMF3H	<i>Identifiler® Plus</i>					
4e	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
TR8CAD	<i>Identifiler®</i>					
4e		21,[23],24		15,[16],17	11,13	11,13
	14,14			[12],13,14	9,11	16,[18],19
	13,14.2	[28],30,32		X,X	12,12	22,25
				7,9	8,8	[14],16,19
TT3UCE	<i>Identifiler® Plus</i>					
4e		17,21,23,24		15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22,25
				7,9	8	14,16,18,19
UC7ZEE	<i>PowerPlex® Fusion</i>					
4e	15,16,17.3	17,21,23,24	10,11,14	15,16,17	11,13	9,11,13
	14,14	12,14,15,17	15,18,20,23	10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32	14,15,17	X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8,8	14,16,18,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4e - STR Results

UHX8XM	<i>PowerPlex® PP16 HS</i>					
4e				15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
		28,30,30.2,32		X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19
UT9WBJ	<i>PowerPlex® 16</i>					
4e				15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
		28,30,30.2,32		X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19
UU6CMF	<i>Identifiler® Identifiler Plus</i>					
4e		17,21,23,24		15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22,25
				7,9	8	14,16,18,19
V4AJ3F	<i>Identifiler® Plus</i>					
4e		[17],21,[23],24		15,[16],17	11,13	[9],11,13
	14,14			[10],[12],13,14	9,11,[13]	16,[18],19,[21]
	13,14.2,[15.2]	[28],30,[30.2],32		X,X,[Y]	12,12	[21],22,25
				7,9	8,8	[14],16,[18],19
V7G22B	<i>Identifiler® Plus</i>					
4e		17,21,23,24		15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22,25
				7,9	8	14,16,18,19
VE8KFJ	<i>PowerPlex® 16</i>					
4e				15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
		28,30,30.2,32		X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19
VJ4BJB	<i>Identifiler®</i>					
4e		[17],21,[23],24		15,[16],17	11,13	[9],11,13
	14			[10],[12],13,14	9,11,[13]	16,[18],19,[21]
	13,14.2,[15.2]	[28],30,[30.2],32		X,[Y]	[11],12	[21],22,25
				7,9	8	[14],16,[18],19
VTYHJ	<i>PowerPlex® 16</i>					
4e				15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,(13)	16,18,19,21
		28,30,30.2,32		X,(Y)	(11),12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19
VYFMDP	<i>COfiler® and Profiler Plus®</i>					
4e				15,(16),17	11,13	11,13
	14,14			10,12,13,14	9,11	16,(18),19
		30,32		X,X	(11),12,12	(21),22,25
				7,9	8,8	14,16,18,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4e - STR Results

W6Z69C	<i>PowerPlex® Fusion</i>						
	4e	15,16,17.3	17,21,23,24	10,11,14	15,16,17	11,13	9,11,13
		14,14	12,14,15,17	15,18,20,23	10,12,13,14	9,11,13	16,18,19,21
		13,14.2,15.2	28,30,30.2,32	14,15,17	X,Y	11,12	21,22,25
	8,9,10	5,12,13	-	7,9	8,8	14,16,18,19	
WP8GYD	<i>Identifiler®</i>						
	4e		17,21,23,24		15,[16],17	11,13	[9],11,13
		14			[10],[12],13,14	9,11,[13]	16,18,19,[21]
		13,14.2,[15.2]	[28],30,32		X,[Y]	[11],12	[21],22,25
				7,9	8	14,16,18,19	
WPNQRE	<i>Identifiler® Plus</i>						
	4e		[17],21,[23],24		15,[16],17	11,13	[9],11,13
		14			[10],[12],13,14	9,11,[13]	16,[18],19,[21]
		13,14.2,[15.2]	[28],30,[30.2],32		X,[Y]	[11],12	[21],22,25
				7,9	8	[14],16,[18],19	
X9EYP9	<i>Identifiler® Plus</i>						
	4e		17,21,23,24		15,16,17	11,13	9,11,13
		14			10,12,13,14	9,11,13	16,18,19,21
		13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22,25
				7,9	8	14,16,18,19	
XAAHQB	<i>Identifiler® Plus</i>						
	4e		17,21,23,24		15,[16],17	11,13	9,11,13
		14			10,12,13,14	9,11,[13]	16,18,19,21
		13,14.2,[15.2]	28,30,30.2,32		X,[Y]	[11],12	22,25
				7,9	8	[14],16,[18],19	
XH2Z6J	<i>PowerPlex® 16</i>						
	4e				15,16,17	11,13	9,11,13
		14			10,12,13,14	9,11,13	16,18,19,21
			28,30,30.2,32		X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19	
XVQZVL	<i>Identifiler®</i>						
	4e		17,21,23,24		15,16,17	11,13	9,11,13
		14			10,12,13,14	9,11,13	16,18,19,21
		13,14.2,15.2	28,30,30.2,32		X,Y	11,12	21,22,25
				7,9	8	14,16,18,19	
YFRBFF	<i>PowerPlex® 16</i>						
	4e				15,16,17	11,13	9,11,13
		14			10,12,13,14	9,11,13	16,18,19,21
			28,30,30.2,32		X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19	
YN3W2N	<i>Identifiler® Plus</i>						
	4e		17,21,24		15,16,17	11,13	9,11,13
		14			10,12,13,14	9,11,13	16,18,19,21
		13,14.2,15.2	28,30,30.2,32		X	12	22,25
				7,9	8	14,16,18,19	

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4e - STR Results

YTKUW7	<i>PowerPlex® Fusion</i>					
4e	15,16,17.3	17,21,23,24	10,11,14	15,16,17	11,13	9,11,13
	14	12,14,15,17	15,18,20,23	10,12,13,14	9,11,13	16,18,19,21
	13,14.2,15.2	28,30,30.2,32	14,15,17	X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19
YZJJDA	<i>Identifiler® Plus</i>					
4e		[17],21,[23],24		15,[16],17	11,13	11,13
	14			[10],[12],13,14	9,11,[13]	16,[18],19
	13,14.2,[15.2]	30,[30.2],32		X,[Y]	12	[21],22,25
				7,9	8	16,[18],19
ZX7AZ4	<i>PowerPlex® ESX, HS, NGM</i>					
4e	15,17.3	21,24	14	15,17	11,13	11,13
	14	12,15	15,18	13,14	9,11	16,19
	13,14.2	30,32	14,15	X	12	22,25
	8,10	12,13	14,18	7,9	8	16,19
ZYYZ7H	<i>PowerPlex® 16</i>					
4e				15,16,17	11,13	9,11,13
	14			10,12,13,14	9,11,13	16,18,19,21
		28,30,30.2,32		X,Y	11,12	21,22,25
	8,9,10	5,12,13		7,9	8	14,16,18,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4PC - STR Results

FMVAFU COfiler® and Profiler Plus® , Identifiler®

4PC			15,16	11,13	9,11
	14,14		10,12		18,21
		28,30.2	X,Y		21,22
					14,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4sp - STR Results

26ZXUC	<i>PowerPlex® 16</i>					
4sp				15,16	11,13	9,11
	14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18
2J4X44	<i>PowerPlex® ESI16</i>					
4sp	[15],16,17.3	17,23	10,11	15,16		
	14	14,17	20,23		11,13	[16],18,21
	13,15.2	28,30.2	15,17	X,Y		21,22
				7		14,18
2M49Z4	<i>Identifiler® Plus, PowerPlex® 16 HS</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18
2QZWC6	<i>Identifiler® Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14,14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18
2VEULD	<i>PowerPlex® 16</i>					
4sp				15,16	11,13	9,11
	14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18
2Z9QB4	<i>GlobalFiler</i>					
4sp	16,17.3	17,23	10,11,[14]	15,16	11,13	9,11
	14	14,17	20,23	10,12	11,13	18,21
	13,15.2	28,30.2	15,17	X,Y	11,12	21,22
			21.2,23.2	7	8	14,18
32G4QK	<i>Identifiler® Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14,14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18
3B7RN9	<i>Identifiler® Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18
3H84K6	<i>Identifiler® Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4sp - STR Results

43ABCA	<i>Identifiler® Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14,14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18
46AKGJ	<i>PowerPlex® 21</i>					
4sp	16,17.3	17,23		15,16	11,13	9,11
	14,14		20,23	10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
	9,9	5,12		7,7	8,8	14,18
48G3EF	<i>Identifiler®</i>					
4sp		17,23		15,16	11,13	9,11
	14,14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18
4EY9D8	<i>Identifiler® Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14,14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18
4LHEAE	<i>PowerPlex® 16</i>					
4sp				15,16	11,13	9,11
	14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18
4LLXZ3	<i>PowerPlex® ESI17, and NGMSelect</i>					
4sp	16,17.3	17,23	10,11	15,16		
	14,14	14,17	20,23		11,13	18,21
	13,15.2	28,30.2	15,17	X,Y		21,22
			21.2,23.2	7,7		14,18
674R29	<i>PowerPlex® 16</i>					
4sp				15,16	11,13	9,11
	14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18
68Y9E6	<i>Identifiler® Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18
6CQHN4	<i>PowerPlex® Fusion</i>					
4sp	16,17.3	17,23	10,11	15,16	11,13	9,11
	14,14	14,17	20,23	10,12	11,13	18,21
	13,15.2	28,30.2	15,17	X,Y	11,12	21,22
	9,9	5,12		7,7	8,8	14,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4sp - STR Results

6EWZMY	<i>PowerPlex® Fusion</i>					
4sp	16,17.3	17,23	10,11	15,16	11,13	9,11
	14	14,17	20,23	10,12	11,13	18,21
	13,15.2	28,30.2	15,17	X,Y	11,12	21,22
	9	5,12		7	8	14,18
7DFBU7	<i>Identifiler® Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18
7KZ4AC	<i>PowerPlex® 16</i>					
4sp				15,16	11,13	9,11
	14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18
7MQCF8	<i>Identifiler® Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18
87YRED	<i>COfiler® and Profiler Plus®</i>					
4sp				15,16	11,13	9,11
	14,14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18
8BA6WC	<i>Identifiler®</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18
8C6NXD	<i>COfiler® and Profiler Plus®</i>					
4sp				15,16,[17]	11,13	9,11
	14,14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18
8DUUE4	<i>COfiler® and Profiler Plus®</i>					
4sp				15,16	11,13	9,11
	14,14			10,12		18,21
		28,30.2		X,Y		21,22
						14,18
8M2R38	<i>NMG Select</i>					
4sp	16,17.3	17,23,[24]	10,11,[14]	15,16		
	14,14	[12],14,[15],17	[18],20,23		[9],11,13	[16],18,21
	13,15.2	28,[30],30.2,[32]	15,17	X,Y		21,22
			[14],[18],21.2,23.2	7,7		14,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4sp - STR Results

93ULCC	COfiler® and Profiler Plus®					
4sp				15,16	11,13	9,11
	14,14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18
982CDX	Identifiler®					
4sp		17,23		15,16	11,13	9,11
	14,14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7,9	8,8	14,18
9H9RJ6	ESI17					
4sp	16,17.3	17,23	10,11	15,16		
	14,14	14,[15],17	20,23		[9],11,13	18,[20],21
	13,15.2	28,30.2	15,17,[18]	X,Y		21,22
			21.2,23.2	7,7		14,18
9JFAH2	NGM SELECT					
4sp	16,17.3	17,23	10,11	15,16		
	[11.2],14,14	14,17	20,23		11,13	18,21
	13,15.2	28,30.2	15,[16],17	X,Y		21,22
			21.2,23.2	7,7		14,18
9W4C3E	Identifiler® Plus					
4sp		17,23		15,16	11,13	9,11
	14,14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18
AAAGVR	PowerPlex® Fusion					
4sp	16,17.3	17,23	10,11	15,16	11,13	9,11
	14	14,17	20,23	10,12	11,13	18,21
	13,15.2	28,30.2	15,17	X,Y	11,12	21,22
	9	5,12		7	8	14,18
AD87AE	PowerPlex® 21					
4sp	16,17.3	17,23		15,16	11,13	9,11
	14,14		20,23	10,12	11,13	18,21
	13,15.2	28,30.2			11,12	21,22
	9,9	5,12		7,7	8,8	14,18
AJFLJ3	Identifiler® Plus					
4sp		17,23		15,16	11,13	9,11
	14,14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18
AT2PQ2	Identifiler® Plus					
4sp		17,23		15,16	11,13	9,11
	14,14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4sp - STR Results

AY8JKX	<i>Identifiler® Identifiler Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18
B39RP8	<i>PowerPlex® 16</i>					
4sp				15,16	11,13	9,11
	14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18
BCXFLV	<i>PowerPlex® Fusion</i>					
4sp	16,17.3	17,23	10,11	15,16	11,13	9,11
	14	14,17	15,20,23	10,12	9,11,13	18,21
	13,15.2	28,30.2,32	15,17	X,Y	11,12	21,22
	9	5,12		7	8	14,18
BNLEDX	<i>PowerPlex® Fusion</i>					
4sp	16,17.3	17,23	10,11	15,16	11,13	9,11
	14,14	14,17	20,23	10,12	11,13	18,21
	13,15.2	28,30,30.2,32	15,17	X,Y	11,12	21,22,25
	9,10	5,12		7,7	8,8	14,18
C7YNMX	<i>GlobalFiler</i>					
4sp	16,17.3	17,23	10,11	15,16	11,13	9,11
	14	14,17	20,23	10,12	11,13	18,21
	13,15.2	28,30.2	15,17	X,Y	11,12	21,22
	-	-	21.2,23.2	7	8	14,18
C93J7Z	<i>Identifiler® Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18
CC84ZR	<i>PowerPlex® Fusion</i>					
4sp	16,17.3	17,23	10,11	15,16	11,13	9,11
	14	14,17	20,23	10,12	11,13	18,21
	13,15.2	28,30.2	15,17	X,Y	11,12	21,22
	9	5,12		7	8	14,18
CNGGF8	<i>Identifiler®</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18
CR37XY	<i>COfiler® and Profiler Plus®</i>					
4sp				15,16	11,13	9,11
	14,14			10,12		18,21
		28,30.2		X,Y		21,22
						14,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4sp - STR Results

CTCBD9	<i>Identifiler®</i>						
	4sp		17,23		15,16	11,13	9,11
		14			10,12	11,13	18,21
		13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,16,18	
CV3HTY	<i>COfiler® and Profiler Plus®</i>						
	4sp				15,16	11,13	9,11
		14,14			10,12		18,21
			28,30.2		X,Y		21,22
						14,18	
D3WYM2	<i>PowerPlex® 16</i>						
	4sp				15,16	11,13	9,11
		14			10,12	11,13	18,21
			28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18	
DP7DDZ	<i>Promega ES1-17</i>						
	4sp	[15],16,17.3	17,23	10,11,[14]	15,16		
		14,14	14,17	20,23		11,13	18,[20],21
		13,15.2	28,30.2	15,[16],17	X,Y		21,22
			21,2,23.2	7,7		14,18	
DU7G9T	<i>Identifiler® Plus</i>						
	4sp		17,23		15,16	11,13	9,11
		14			10,12	11,13	18,21
		13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18	
E4MKTX	<i>Identifiler® Plus</i>						
	4sp		17,23		15,16	11,13	9,11
		14,14			10,12	11,13	18,21
		13,15.2	28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18	
E88C6Z	<i>PowerPlex® 16</i>						
	4sp				15,16	11,13	9,11
		14			10,12	11,13	18,21
			28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18	
E93V82	<i>PowerPlex® 16</i>						
	4sp				15,16	11,13	9,11
		14			10,12	11,13	18,21
			28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18	
EH83NM	<i>PowerPlex® Fusion</i>						
	4sp	16,17.3	17,23	10,11	15,16	11,13	9,11
		14	14,17	20,23	10,12	11,13	18,21
		13,15.2	28,30.2	15,17	X,Y	11,12	21,22
	9	5,12		7	8	14,18	

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4sp - STR Results

EKAZWU	<i>Identifiler®</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18
EKTR4T	<i>Identifiler® Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14,14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18
EU2JB3	<i>PowerPlex® 16</i>					
4sp				15,16	11,13	9,11
	14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18
EYRTL2	<i>PowerPlex® 16</i>					
4sp				15,16	11,13	9,11
	14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18
FXBWT2	<i>PowerPlex® 16 HS</i>					
4sp				15,16	11,13	9,11
	14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18
G29W74	<i>Identifiler®</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18
G9TZD7	<i>Identifiler® Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14,14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18
GCMRHW	<i>PowerPlex® ESI-17</i>					
4sp	16,17.3	17,23	10,11	15,16		
	14,14	14,17	20,23		11,13	18,21
	13,15.2	28,30.2	15,17	X,Y		21,22
			21,2,23.2	7,7		14,18
GFETRQ	<i>Identifiler® Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4sp - STR Results

GJAKX3	<i>Identifiler®</i>						
	4sp		17,23		15,16	11,13	9,11
		14			10,12	11,13	18,21
		13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18	
GU8KA7	<i>GlobalFiler</i>						
	4sp	16,17.3	17,23	10,11	15,16	11,13	9,11
		14,14	14,17	20,23	10,12	11,13	18,21
		13,15.2	28,30.2	15,17	X,Y	11,12	21,22
			21.2,23.2	7,7	8,8	14,18	
GY7YXW	<i>Identifiler® Plus</i>						
	4sp		17,23		15,16	11,13	9,11
		14,14			10,12	11,13	18,21
		13,15.2	28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18	
GZDGVR	<i>Identifiler® Plus</i>						
	4sp		17,23		15,16	11,13	9,11
		14			10,12	11,13	18,21
		13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18	
H6NRLZ	<i>Identifiler®</i>						
	4sp		17,23		15,16	11,13	9,11
		14			10,12	11,13	18,21
		13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18	
H6QGTJ	<i>PowerPlex® Fusion</i>						
	4sp	16,17.3	17,23	10,11	15,16	11,13	9,11
		14	14,17	20,23	10,12	11,13	18,21
		13,15.2	28,30.2	15,17	X,Y	11,12	21,22
	9	5,12		7	8	14,18	
H7HDFR	<i>Identifiler® Plus</i>						
	4sp		17,23		15,16	11,13	9,11
		14			10,12	11,13	18,21
		13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18	
HCN7AM	<i>GlobalFiler</i>						
	4sp	16,17.3	17,[21],23	10,11	15,16	11,13	9,11
		14	14,17	20,23	10,12,[13]	11,13	18,21
		13,15.2	28,30.2	15,17	X,Y	11,12	21,22
			21.2,23.2	7	8	14,18,[19]	
HDZQEQ	<i>PowerPlex® FUSION</i>						
	4sp	16,17.3	17,23	10,11	15,16	11,13	9,11
		14,14	14,17	20,23	10,12	11,13	18,21
		13,15.2	28,30.2	15,17	X,Y	11,12	21,22
	9,9	5,12	-	7,7	8,8	14,18	

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4sp - STR Results

HKFPNV	<i>PowerPlex® 16</i>					
4sp				15,16	11,13	9,11
	14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18
HNEZJV	<i>PowerPlex® 16</i>					
4sp				15,16	11,13	9,11
	14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18
HPAJLW	<i>PowerPlex® 16</i>					
4sp				15,16	11,13	9,11
	14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18
KCJ9CW	<i>PowerPlex® 16 HS</i>					
4sp				15,16	11,13	9,11
	14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18
LVA42P	<i>Identifiler® Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14,14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18
LWJUMM	<i>PowerPlex® Fusion</i>					
4sp	16,17.3	17,23	10,11	15,16	11,13	9,11
	14,14	14,17	20,23	10,12	11,13	18,21
	13,15.2	28,30.2	15,17	X,Y	11,12	21,22
	9,9	5,12		7,7	8,8	14,18
M6Q8LU	<i>PowerPlex® 16</i>					
4sp				15,16	11,13	9,11
	14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18
M73KQQ	<i>Identifiler® Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14,14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18
M786EU	<i>PowerPlex® 16</i>					
4sp				15,16	11,13	9,11
	14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4sp - STR Results

MBEVGZ	<i>Identifiler® Plus</i>						
	4sp		17,23		15,16	11,13	9,11
		14,14			10,12	11,13	18,21
		13,15.2	28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18	
MF8R7Q	<i>PowerPlex® 16</i>						
	4sp				15,16	11,13	9,11
		14			10,12	11,13	18,21
			28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18	
MHEA6L	<i>Identifiler® Plus</i>						
	4sp		17,23		15,16,[17]	11,[12],13	9,11
		14			10,12	11,[12],13	18,[20],21
		13,[14.2],15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18	
MRPCQM	<i>Identifiler® ID+</i>						
	4sp		17,23		15,16	11,13	9,11
		14			10,12	11,13	18,21
		13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18	
MTV2NP	<i>Identifiler® Plus</i>						
	4sp		17,23		15,16	11,13	9,11
		14			10,12	11,13	18,21
		13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18	
N3Z94P	<i>ESI 17</i>						
	4sp	16,17.3	17,23	10,11	15,16		
		14,14	14,17	20,23		11,13	18,21
		13,15.2	28,30.2	15,17	X,Y		21,22
			21.2,23.2	7,7		14,18	
N4WGFF	<i>PowerPlex® ESX</i>						
	4sp	16,17.3	17,23	10,11	15,16		
		14	14,17	20,23		11,13	18,21
		13,15.2	28,30.2	15,17	X,Y		21,22
			21.2,23.2	7		14,18	
N8CCUR	<i>PowerPlex® 16</i>						
	4sp				15,16	11,13	9,11
		14			10,12	11,13	18,21
			28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18	
NQ7TJU	<i>PowerPlex® 16</i>						
	4sp				15,16	11,13	9,11
		14			10,12	11,13	18,21
			28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18	

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4sp - STR Results

PGDWWK	<i>PowerPlex® Fusion</i>					
4sp	16,17.3	17,23	10,11	15,16	11,13	9,11
	14,14	14,17	20,23	10,12	11,13	18,21
	13,15.2	28,30.2	15,17	X,Y	11,12	21,22
	9,9	5,12		7,7	8,8	14,18
PHAC8V	<i>COfiler® and Profiler Plus®</i>					
4sp				15,16,[17]	11,13	9,11
	14,14			10,12	[9],11,13	18,21
		28,30.2		X,Y	11,12	21,22,[25]
				7,7	8,8	14,18
PL9QUL	<i>Identifiler® Identifiler Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18
PNE9TG	<i>Identifiler® Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,20,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18
PU2YEC	<i>PowerPlex® Fusion</i>					
4sp	16,17.3	17,23	10,11	15,16	11,13	9,11
	14	14,17	20,23	10,12	11,13	18,21
	13,15.2	28,30.2	15,17	X,Y	11,12	21,22
	9	5,12		7	8	14,18
PVY99U	<i>Identifiler®</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18
PWURAV	<i>COfiler® and Profiler Plus®</i>					
4sp				15,16	11,13	9,11
	14,14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18
Q9GGKK	<i>Identifiler®</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18
QCGRGK	<i>Identifiler®</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4sp - STR Results

QTQJJP	<i>PowerPlex® 16</i>					
4sp				15,16	11,13	9,11
	14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18
R2WM6E	<i>Identifiler® Plus, PowerPlex® 21</i>					
4sp	16,17.3	17,23		15,16	11,13	9,11
	14,14		20,23	10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
	9,9	5,12		7,7	8,8	14,18
RCX99T	<i>Globalfiler</i>					
4sp	16,17.3	17,23	10,11	15,16	11,13	9,11
	14,14	14,17	20,23	10,12	11,13	18,21
	13,15.2	28,30.2	15,17	X,Y	11,12	21,22
			21.2,23.2	7,7	8,8	14,18
RMYTE	<i>Identifiler® Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18
TD2HGF	<i>Identifiler® Identifiler Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18
TJMF3H	<i>Identifiler® Plus</i>					
4sp	-	17,23	-	15,16	11,13	9,11
	14	-	-	10,12	11,13	18,21
	13,15.2	28,30.2	-	X,Y	11,12	21,22
	-	-	-	7	8	14,18
TR8CAD	<i>Identifiler®</i>					
4sp		17,23		15,16	11,13	9,11
	14,14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18
TT3UCE	<i>Identifiler® Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18
UC7ZEE	<i>PowerPlex® Fusion</i>					
4sp	16,17.3	17,23	10,11	15,16	11,13	9,11
	14,14	14,17	20,23	10,12	11,13	18,21
	13,15.2	28,30.2	15,17	X,Y	11,12	21,22
	9,9	5,12		7,7	8,8	14,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4sp - STR Results

UHX8XM	<i>PowerPlex® PP16 HS</i>					
4sp				15,16	11,13	9,11
	14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18
UT9WBJ	<i>PowerPlex® 16</i>					
4sp				15,16	11,13	9,11
	14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18
UU6CMF	<i>Identifiler® Identifiler Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18
V4AJ3F	<i>Identifiler® Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14,14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18
V7G22B	<i>Identifiler® Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18
VE8KFJ	<i>PowerPlex® 16</i>					
4sp				15,16	11,13	9,11
	14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18
VJ4BJB	<i>Identifiler®</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18
VTYHJ	<i>PowerPlex® 16</i>					
4sp				15,16	11,13	9,11
	14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18
VYFMDP	<i>COfiler® and Profiler Plus®</i>					
4sp				15,16	11,13	9,11
	14,14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4sp - STR Results

W6Z69C	<i>PowerPlex® Fusion</i>						
	4sp	16,17.3	17,23	10,11	15,16	11,13	9,11
		14,14	14,17	20,23	10,12	11,13	18,21
		13,15.2	28,30.2	15,17	X,Y	11,12	21,22
	9	5,12	-	7,7	8,8	14,18	
WP8GYD	<i>Identifiler®</i>						
	4sp		17,23		15,16	11,13	9,11
		14			10,12	11,13	18,[20],21
		13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18	
WPNQRE	<i>Identifiler® Plus</i>						
	4sp		17,23		15,16	11,13	9,11
		14,14			10,12	11,13	18,21
		13,15.2	28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18	
X9EYP9	<i>Identifiler® Plus</i>						
	4sp		17,21,23,24		15,16,17	11,13	9,11
		14			10,12,13	9,11,13	16,18,19,21
		13,14.2,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18,19	
XAAHQB	<i>Identifiler® Plus</i>						
	4sp		17,23		15,16	11,13	9,11
		14			10,12	11,13	18,21
		13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18	
XH2Z6J	<i>PowerPlex® 16</i>						
	4sp				15,16	11,13	9,11
		14			10,12	11,13	18,21
			28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18	
XVQZVL	<i>Identifiler®</i>						
	4sp		17,23		15,16	11,13	9,11
		14			10,12	11,13	18,21
		13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18	
YFRBFF	<i>PowerPlex® 16</i>						
	4sp				15,16	11,13	9,11
		14			10,12	11,13	18,21
			28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18	
YN3W2N	<i>Identifiler® Plus</i>						
	4sp		17,23		15,16	11,13	9,11
		14,14			10,12	11,13	18,21
		13,15.2	28,30.2		X,Y	11,12	21,22
				7,7	8,8	14,18	

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4sp - STR Results

YTKUW7	<i>PowerPlex® Fusion</i>					
4sp	16,17.3	17,23	10,11	15,16	11,13	9,11
	14	14,17	20,23	10,12	11,13	18,21
	13,15.2	28,30.2	15,17	X,Y	11,12	21,22
	9	5,12		7	8	14,18
YZJJDA	<i>Identifiler® Plus</i>					
4sp		17,23		15,16	11,13	9,11
	14			10,12	11,13	18,21
	13,15.2	28,30.2		X,Y	11,12	21,22
				7	8	14,18
ZX7AZ4	<i>PowerPlex® ESX, HS, NGM</i>					
4sp	16,17.3	17,23	10,11	15,16	11,13	9,11
	14	14,17	20,23	10,12	11,13	18,21
	13,15.2	28,30.2	15,17	X,Y	11,12	21,22
	9	5,12	21.2,23.2	7	8	14,18
ZYYZ7H	<i>PowerPlex® 16</i>					
4sp				15,16	11,13	9,11
	14			10,12	11,13	18,21
		28,30.2		X,Y	11,12	21,22
	9	5,12		7	8	14,18

YSTR Results

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

Item 1 - YSTR Results

2Z9QB4	GlobalFiler 1	N/A							
		N/A							
6EWZMY	PowerPlex® Fusion 1	NR							
		NR							
7DFBU7	Yfiler® 1	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
87GZ6T	Yfiler® 1	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
AAAGVR	PowerPlex Fusion 1	NR							
		NR							
C93J7Z	Yfiler® 1	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
CC84ZR	Yfiler® 1	NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
					NR		NR		
EH83NM	PowerPlex Fusion 1	NR							
		NR							
GU8KA7	GlobalFiler 1								
H6QGTJ	PowerPlex Fusion 1	NR							
		NR							

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

Item 1 - YSTR Results

HCN7AM	GlobalFiler 1									
PU2YEC	PowerPlex Fusion 1							NR		
WP8GYD	Yfiler® 1									
YTKUW7	PowerPlex Fusion 1							NR		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

Item 2 - YSTR Results

2M49Z4	PowerPlex® Y 23	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17	22	12
			13	18	18	23	10	11		
2VEULD	PowerPlex® Y 23	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17	22	12
			13	18	18	23	10	11		
2Z9QB4	GlobalFiler	2						10		
									2	
32G4QK	PowerPlex® Y 23	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17	22	12
			13	18	18	23	10	11		
3B7RN9	Yfiler®	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
3H84K6	Yfiler® Direct, Globalfiler Express for Y Indel	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11	2	
43ABCA	Yfiler®	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
4EY9D8	Yfiler®	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
4LHEAE	Yfiler®	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
68Y9E6	Yfiler®	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

Item 2 - YSTR Results

6EWZMY	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
7CME8X	Yfiler® Y filer Plus 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
			18	18	23		11		
7DFBU7	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
7MQCF8	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
87GZ6T	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	-	-
		-	-	-	23	-	11	-	-
87YRED	PowerPlex® Y 23 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		
8C6NXD	PowerPlex® Y 23 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		
93ULCC	PowerPlex® Y 23 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		
982CDX	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
			18	18	23		11		
9W4C3E	PowerPlex® Y 23 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 2 - YSTR Results

AAAGVR	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
AD87AE	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
AJFLJ3	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
AT2PQ2	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
AY8JKX	Yfiler Direct; Yindel from GFE 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11	2	
BCXFLV	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
BNLEDX	PowerPlex® Y 23 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		
C7YNMX	2						10		
								2	
C93J7Z	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
C97Z6Y	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	-	-
		-	-	-	23	-	11	-	-

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 2 - YSTR Results

CC84ZR	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
CTCBD9	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
D3WYM2	PowerPlex® Y 23 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		
DU7G9T	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
E4MKTX	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
E93V82	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
EH83NM	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
EYRTL2	PowerPlex® Y 23 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		
FXBWT2	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
FZ26YW	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	-	-
		-	-	-	23	-	11	-	-

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

Item 2 - YSTR Results

GFETRQ	Yfiler® Direct, GlobalFiler Express (for Y Indel)	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11	2	
GJAKX3	Yfiler®	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
GU8KA7	GlobalFiler	2						10		
									2	
GY7YXW	Yfiler®	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
H6QGTJ	Yfiler®	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
H7HDFR	Yfiler®	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
HCN7AM	GlobalFiler	2						10		
									2	
KCJ9CW	Yfiler®	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
L2U86L	PowerPlex® Y Y23	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17	22	12
			13	18	18	23	10	11		
LVA42P	Yfiler®	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

Item 2 - YSTR Results

LWJUMM	PowerPlex® Y Y23	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17	22	12
			13	18	18	23	10	11		
M6Q8LU	Yfiler®	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
M73KQQ	Yfiler®	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
MBEVGZ	PowerPlex® Y 23	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17	22	12
			13	18	18	23	10	11		
MHEA6L	Yfiler®	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
MRPCQM	Yfiler®	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
MTV2NP	Yfiler®	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
N4WGFF	PowerPlex® Y 23	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17	22	12
			13	18	18	23	10	11		
N8CCUR	Yfiler®	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
PHAC8V	PowerPlex® Y 23	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17	22	12
			13	18	18	23	10	11		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

Item 2 - YSTR Results

PL9QUL	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
PNE9TG	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
PU2YEC	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
PVY99U	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
PWURAV	PowerPlex® Y 23 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		
Q9GGKK	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
QCGRGK	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
R2WM6E	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
RMXYTE	Yfiler® Direct, GFE for Y indel 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11	2	
TD2HGF	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

Item 2 - YSTR Results

TJMF3H	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	-	-
		-	-	-	23	-	11	-	-
TR8CAD	PowerPlex® Y 23 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		
TT3UCE	Yfiler® Direct, GlobalFiler Express for Y Indel 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11	2	
UC7ZEE	PowerPlex® Y 23 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		
UHX8XM	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
UU6CMF	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
V4AJ3F	Yfiler® 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
V7G22B	Yfiler® Direct, GFE for Y Indel 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11	2	
VTYHJ	PowerPlex® Y 23 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		
VYFMDP	PowerPlex® Y 23 2	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 2 - YSTR Results

W6Z69C	PowerPlex® Y Y23	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17	22	12
			13	18	18	23	10	11		
WP8GYD	Yfiler®	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
WPNQRE	Yfiler®	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
X9EYP9	Yfiler®	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
XAAHQB	Yfiler® Direct	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
YN3W2N	PowerPlex® Y 23	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17	22	12
			13	18	18	23	10	11		
YTKUW7	Yfiler®	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
ZX7AZ4	PowerPlex® Y 23	2	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17	22	12
			13	18	18	23	10	11		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 3 - YSTR Results

2M49Z4	PowerPlex® Y 23	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17	22	12
			13	18	18	23	10	11		
2VEULD	PowerPlex® Y 23	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17	22	12
			13	18	18	23	10	11		
2Z9QB4	GlobalFiler	3						10		
										2
32G4QK	PowerPlex® Y 23	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17	22	12
			13	18	18	23	10	11		
3B7RN9	Yfiler®	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
3H84K6	Yfiler®	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
43ABCA	Yfiler®	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
4EY9D8	Yfiler®	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
4LHEAE	Yfiler®	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
68Y9E6	Yfiler®	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

Item 3 - YSTR Results

6EWZMY	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
7CME8X	Yfiler® Yfiler Plus 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
			18	18	23		11		
7DFBU7	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
7MQCF8	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
87GZ6T	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	-	-
		-	-	-	23	-	11	-	-
87YRED	PowerPlex® Y 23 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		
8C6NXD	PowerPlex® Y 23 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		
93ULCC	PowerPlex® Y 23 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		
982CDX	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
			18	18	23		11		
9W4C3E	PowerPlex® Y 23 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 3 - YSTR Results

AAAGVR	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
AD87AE	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
AJFLJ3	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
AT2PQ2	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
AY8JKX	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
BCXFLV	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
BNLEDX	PowerPlex® Y 23 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		
C7YNMX	3						10		
								2	
C93J7Z	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
C97Z6Y	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	-	-
		-	-	-	23	-	11	-	-

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 3 - YSTR Results

CC84ZR	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
CTCBD9	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
D3WYM2	PowerPlex® Y 23 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		
DU7G9T	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
E4MKTX	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
E93V82	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
EH83NM	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
EYRTL2	PowerPlex® Y 23 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		
FXBWT2	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
FZ26YW	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	-	-
		-	-	-	23	-	11	-	-

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 3 - YSTR Results

GFETRQ	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
GJAKX3	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
GU8KA7	GlobalFiler 3						10		
									2
GY7YXW	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
H6QGTJ	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
H7HDFR	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
HCN7AM	GlobalFiler 3						10		
									2
KCJ9CW	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
L2U86L	PowerPlex® Y Y23 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		
LVA42P	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 3 - YSTR Results

LWJUMM	PowerPlex® Y Y23	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17	22	12
			13	18	18	23	10	11		
M6Q8LU	Yfiler®	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
M73KQQ	Yfiler®	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
MBEVGZ	PowerPlex® Y 23	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17	22	12
			13	18	18	23	10	11		
MHEA6L	Yfiler®	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
MRPCQM	Yfiler®	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
MTV2NP	Yfiler®	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
N4WGFF	PowerPlex® Y 23	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17	22	12
			13	18	18	23	10	11		
N8CCUR	Yfiler®	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
PHAC8V	PowerPlex® Y 23	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17	22	12
			13	18	18	23	10	11		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

Item 3 - YSTR Results

PL9QUL	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
PNE9TG	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
PU2YEC	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
PVY99U	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
PWURAV	PowerPlex® Y 23 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		
Q9GGKK	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
QCGRGK	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
R2WM6E	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
RMXYTE	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
TD2HGF	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 3 - YSTR Results

TJMF3H	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	-	-
		-	-	-	23	-	11	-	-
TR8CAD	PowerPlex® Y 23 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		
TT3UCE	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
UC7ZEE	PowerPlex® Y 23 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		
UHX8XM	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
UU6CMF	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
V4AJ3F	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
V7G22B	Yfiler® 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17		
					23		11		
VTYHJ	PowerPlex® Y 23 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		
VYFMDP	PowerPlex® Y 23 3	14	11,14	13	30	24	10	12	13
		14	12	11	18	16	17	22	12
		13	18	18	23	10	11		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 3 - YSTR Results

W6Z69C	PowerPlex® Y Y23	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17	22	12
			13	18	18	23	10	11		
WP8GYD	Yfiler®	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
WPNQRE	Yfiler®	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
X9EYP9		3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
XAAHQB	Yfiler®	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
YN3W2N	PowerPlex® Y 23	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17	22	12
			13	18	18	23	10	11		
YTKUW7	Yfiler®	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17		
						23		11		
ZX7AZ4	PowerPlex® Y 23	3	14	11,14	13	30	24	10	12	13
			14	12	11	18	16	17	22	12
			13	18	18	23	10	11		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 4 - YSTR Results

7CME8X	Yfiler® Yfiler Plus	4	13	11,17	12	30	24	10	11	13
			14	10	12	20	15	16	25	10
				20	21	21		9		
87GZ6T	Yfiler®	4	13	11,17	12	30	24	10	11	13
			14	10	12	20	15	16	-	-
			-	-	-	21	-	9	-	-
C97Z6Y	Yfiler®	4	13	11,17	12	30	24	10	11	13
			14	10	12	20	15	16	-	-
			-	-	-	21	-	9	-	-
FZ26YW	Yfiler®	4	13	11,17	12	30	24	10	11	13
			14	10	12	20	15	16	-	-
			-	-	-	21	-	9	-	-
L2U86L	PowerPlex® Y Y23	4	13	11,17	12	30	24	10	11	13
			14	10	12	20	15	16	25	10
			11	20	21	21	11	9		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 4e - YSTR Results

2M49Z4	Yfiler®, PowerPlex® Y 23 4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
2VEULD	PowerPlex® Y 23 4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
2Z9QB4	GlobalFiler 4e						10		
								2	
32G4QK	PowerPlex® Y 23 4e								
3B7RN9	Yfiler® 4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
3H84K6	Yfiler® 4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
43ABCA	Yfiler® 4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
4EY9D8	Yfiler® 4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
4LHEAE	Yfiler® 4e	13	11,17	12	30	24	10	11	
		14			20	15	16		
							9		
68Y9E6	Yfiler® 4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 4e - YSTR Results

6EWZMY	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
7DFBU7	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
7MQCF8	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
87YRED	PowerPlex® Y 23								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
8C6NXD	PowerPlex® Y 23								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
93ULCC	PowerPlex® Y 23								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
982CDX	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
			20	21	21		9		
9W4C3E	PowerPlex® Y 23								
	4e								
AAAGVR	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
AD87AE	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 4e - YSTR Results

AJFLJ3	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
				21		9			
AT2PQ2	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
				21		9			
AY8JKX	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
				21		9			
BCXFLV	Yfiler®								
	4e								
BNLEDX	PowerPlex® Y 23								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
C93J7Z	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
				21		9			
CC84ZR	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
				21		9			
CTCBD9	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
				21		9			
D3WYM2	PowerPlex® Y 23								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
DU7G9T	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
				21		9			

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 4e - YSTR Results

E4MKTX	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
E93V82	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
EH83NM	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
EYRTL2	PowerPlex® Y 23								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
FXBWT2	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
GFETRQ	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
GJAKX3	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
GU8KA7	GlobalFiler								
	4e						[10]		
								[2]	
GY7YXW	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
H6QGTJ	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 4e - YSTR Results

H7HDFR	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
HCN7AM	GlobalFiler								
	4e						10		
								2	
KCJ9CW	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
LVA42P	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
LWJUMM	PowerPlex® Y Y23								
	4e								
M6Q8LU	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
M73KQQ	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
MHEA6L	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
MRPCQM	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
MTV2NP	Yfiler®								
	4e								

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 4e - YSTR Results

N4WGFF	PowerPlex® Y 23								
	4e								
PHAC8V	PowerPlex® Y 23								
	4e	13	11,17	BDL	BDL	24	10	11	13
		14	BDL	12	20	15	16	25	10
		11	20	21	ND	ND	BDL		
PL9QUL	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
				21			9		
PNE9TG	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
				21			9		
PU2YEC	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
				21			9		
PVY99U	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
				21			9		
PWURAV	PowerPlex® Y 23								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
Q9GGKK	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
				21			9		
QCGRGK	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
				21			9		
R2WM6E	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
				21			9		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 4e - YSTR Results

RMXYTE	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
				21		9			
TD2HGF	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
				21		9			
TJMF3H	Yfiler®								
	4e	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
TR8CAD	PowerPlex® Y 23								
	4e								
TT3UCE	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
				21		9			
UC7ZEE	PowerPlex® Y 23								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
UHX8XM	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
				21		9			
UU6CMF	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
				21		9			
V4AJ3F	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
				21		9			
V7G22B	Yfiler®								
	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
				21		9			

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 4e - YSTR Results

VTYHJ	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
VYFMDP	4e	BDL	11,17	12	30	24	10	11	13
		14	BDL	BDL	20	BDL	16	25	BDL
		11	20	BDL	BDL	11	9		
W6Z69C	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
WP8GYD	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
WPNQRE	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
X9EYP9	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
XAAHQB	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
YN3W2N	4e	[Redacted]							
		[Redacted]							
		[Redacted]							
YTKUW7	4e	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
ZX7AZ4	4e	[Redacted]							
		[Redacted]							
		[Redacted]							

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 4sp - YSTR Results

2M49Z4	Yfiler® , PowerPlex® Y 23	4sp	13	11,17	12	30	24	10	11	13
			14	10	12	20	15	16	25	10
			11	20	21	21	11	9		
2VEULD	PowerPlex® Y 23	4sp	13	11,17	12	30	24	10	11	13
			14	10	12	20	15	16	25	10
			11	20	21	21	11	9		
2Z9QB4	GlobalFiler	4sp						10		
									2	
32G4QK	PowerPlex® Y 23	4sp	13	11,17	12	30	24	10	11	13
			14	10	12	20	15	16	25	10
			11	20	21	21	11	9		
3B7RN9	Yfiler®	4sp	13	11,17	12	30	24	10	11	13
			14	10	12	20	15	16		
						21		9		
3H84K6	Yfiler®	4sp	13	11,17	12	30	24	10	11	13
			14	10	12	20	15	16		
						21		9		
43ABCA	Yfiler®	4sp	13	11,17	12	30	24	10	11	13
			14	10	12	20	15	16		
						21		9		
4EY9D8	Yfiler®	4sp	13	11,17	12	30	24	10	11	13
			14	10	12	20	15	16		
						21		9		
4LHEAE	Yfiler®	4sp	13	11,17	12	30	24	10	11	13
			14	10	12	20	15	16		
						21		9		
68Y9E6	Yfiler®	4sp	13	11,17	12	30	24	10	11	13
			14	10	12	20	15	16		
						21		9		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 4sp - YSTR Results

6EWZMY	Yfiler®								
	4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
7DFBU7	Yfiler®								
	4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
7MQCF8	Yfiler®								
	4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
87YRED	PowerPlex® Y 23								
	4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
8C6NXD	PowerPlex® Y 23								
	4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
93ULCC	PowerPlex® Y 23								
	4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
982CDX	Yfiler®								
	4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
			20	21	21		9		
9W4C3E	PowerPlex® Y 23								
	4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
AAAGVR	Yfiler®								
	4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
AD87AE	Yfiler®								
	4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 4sp - YSTR Results

AJFLJ3	Yfiler®								
	4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
AT2PQ2	Yfiler®								
	4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
AY8JKX	Yfiler®								
	4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
BCXFLV	Yfiler®								
	4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
BNLEDX	PowerPlex® Y 23								
	4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
C7YNMX									
	4sp						10		
								2	
C93J7Z	Yfiler®								
	4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
CC84ZR	Yfiler®								
	4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
CTCBD9	Yfiler®								
	4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
D3WYM2	PowerPlex® Y 23								
	4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 4sp - YSTR Results

DU7G9T	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
E4MKTX	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
E93V82	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
EH83NM	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
EYRTL2	PowerPlex® Y 23 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
FXBWT2	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
GFETRQ	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
GJAKX3	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
GU8KA7	GlobalFiler 4sp						10		
								2	
GY7YXW	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 4sp - YSTR Results

H6QGTJ	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
H7HDFR	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
HCN7AM	GlobalFiler 4sp						10		
								2	
KCJ9CW	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
LVA42P	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
LWJUMM	PowerPlex® Y Y23 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
M6Q8LU	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
M73KQQ	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
MBEVGZ	PowerPlex® Y 23 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
MHEA6L	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 4sp - YSTR Results

MRPCQM	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
MTV2NP	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
N4WGFF	PowerPlex® Y 23 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
N8CCUR	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
PHAC8V	PowerPlex® Y 23 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
PL9QUL	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
PNE9TG	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
PU2YEC	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
PVY99U	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
PWURAV	PowerPlex® Y 23 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 4sp - YSTR Results

Q9GGKK	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
QCGRGK	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
R2WM6E	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
RMXYTE	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
TD2HGF	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
TJMF3H	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	-	-
		-	-	-	21	-	9	-	-
TR8CAD	PowerPlex® Y 23 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
TT3UCE	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
UC7ZEE	PowerPlex® Y 23 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
UHX8XM	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

Item 4sp - YSTR Results

UU6CMF	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
V4AJ3F	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
V7G22B	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
VTYHJ	4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
VYFMDP	PowerPlex® Y 23 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
W6Z69C	PowerPlex® Y Y23 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16	25	10
		11	20	21	21	11	9		
WP8GYD	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
WPNQRE	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
X9EYP9	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		
XAAHQB	Yfiler® 4sp	13	11,17	12	30	24	10	11	13
		14	10	12	20	15	16		
					21		9		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

Item 4sp - YSTR Results

YN3W2N	PowerPlex® Y 23	4sp	13	11,17	12	30	24	10	11	13
			14	10	12	20	15	16	25	10
			11	20	21	21	11	9		
YTKUW7	Yfiler®	4sp	13	11,17	12	30	24	10	11	13
			14	10	12	20	15	16		
						21		9		
ZX7AZ4	PowerPlex® Y 23	4sp	13	11,17	12	30	24	10	11	13
			14	10	12	20	15	16	25	10
			11	20	21	21	11	9		

Additional DNA Results

TABLE 3

Locus	WebCode	Item 1	Item 2	Item 3	Item 3e	Item 3sp	Item 4	Item 4e	Item 4sp
D6S1043	46AKGJ	13,19	11,20.3	11,20.3				13,18,19	13,18
	AD87AE	13,19	11,20.3	11,20.3				13,18,19	13,18
	R2WM6E	13,19	11,20.3	11,20.3				13,19	13,18
DYF387S1	7CME8X		35,36	35,36			37,40		
DYS391	6CQHN4		10	10				10	10
	6EWZMY		10	10				10	10
	AAAGVR		10	10				10	10
	BCXFLV		10	10				10	10
	CC84ZR	NR	10	10				10	10
	EH83NM		10	10				10	10
	H6QGTJ		10	10				10	10
	HDZQEQ	ND	10,10			10,10	ND	10,10	10,10
	KFJK8W		10						
	PGDWWK		10	10				10	10
	PU2YEC		10	10				10	10
	RCX99T		10	10				[10]	10
	UC7ZEE		10	10				10	10
W6Z69C		10	10				10	10	
YTKUW7		10	10				10	10	
DYS391 (FUSION)	BNLEDX		10	10					10
DYS449	7CME8X		29	29			32		
DYS460	7CME8X		11	11			10		
DYS518	7CME8X		39	39			39		
DYS627	7CME8X		22	22			18		
YINDEL	KFJK8W		2						
	RCX99T		2	2					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 4

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
26ZXUC	No	Yes	Yes	No	7MQCF8	No	Yes	Yes	No
2J4X44	No	Yes	Yes	No	87GZ6T	No	Yes	Yes	No
2M49Z4	No	Yes	Yes	No	87YRED	No	Yes	Yes	No
2QZWC6	No	Yes	Yes	No	8BA6WC	No	Yes	Yes	No
2VEULD	No	Yes	Yes	No	8C6NXD	No	Yes	Yes	No
2Z9QB4	No	Yes	Yes	No	8DUUE4	No	Yes	Yes	No
32G4QK	No	Yes	Yes	No	8M2R38	No	Yes	Yes	No
3B7RN9	No	Yes	Yes	No	93ULCC	No	Yes	Yes	No
3H84K6	No	Yes	Yes	No	982CDX	No	Yes	Yes	No
43ABCA	No	Yes	Yes	No	9H9RJ6	No	Yes	Yes	No
46AKGJ	No	Yes	Yes	No	9JFAH2	No	Yes	Yes	No
48G3EF	No	Yes	Yes	No	9W4C3E	No	Yes	Yes	No
4EY9D8	No	Yes	Yes	No	AAAGVR	No	Yes	Yes	No
4LHEAE	No	Yes	Yes	No	AD87AE	No	Yes	Yes	No
4LLXZ3	No	Yes	Yes	No	AJFLJ3				
674R29	No	Yes	Yes	No	AT2PQ2	No	Yes	Yes	No
68Y9E6	No	Yes	Yes	No	AY8JKX	No	Yes	Yes	No
6CQHN4	No	Yes	Yes	No	B39RP8	No	Yes	Yes	No
6EWZMY	No	Yes	Yes	No	BCXFLV	No	Yes	Yes	No
7CME8X	No	Yes	Yes	No	BNLEDX	No	Yes	Yes	No
7DFBU7	No	Yes	Yes	No	C7YNMX	No	Yes	Yes	No
7KZ4AC	No	Yes	Yes	No	C93J7Z	No	Yes	Yes	No

TABLE 4

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
C97Z6Y	No	Yes	Yes	No	GJAKX3	No	Yes	Yes	No
CC84ZR	No	Yes	Yes	No	GNLULQ	No	Yes	Yes	No
CNGGF8	No	Yes	Yes	No	GU8KA7	No	Yes	Yes	No
CR37XY	No	Yes	Yes	No	GY7YXW	No	Yes	Yes	No
CTCBD9	No	Yes	Yes	No	GZDGVR	No	Yes	Yes	No
CV3HTY	No	Yes	Yes	No	H6NRLZ	No	Yes	Yes	No
D3WYM2	No	Yes	Yes	No	H6QGTJ	No	Yes	Yes	No
DP7DDZ	No	Yes	Yes	No	H7HDFR	No	Yes	Yes	No
DU7G9T	No	Yes	Yes	No	H9AG4T	No	No	Yes	No
E4MKTJ	No	Yes	Yes	No	HCN7AM	No	Yes	Yes	No
E88C6Z	No	Yes	Yes	No	HDZQEQ	No	Yes	Yes	No
E93V82	No	Yes	Yes	No	HKFPNV	No	Yes	Yes	No
EH83NM	No	Yes	Yes	No	HNEZJV	No	Yes	Yes	No
EKAZWU	No	Yes	Yes	No	HPAJLW	No	Yes	Yes	No
EKTR4T	No	Yes	Yes	No	KCJ9CW	No	Yes	Yes	No
EU2JB3	No	Yes	Yes	No	KFJK8W	No Interpretations Reported, DNA Analyzed for Database purposes only.			
EYRTL2	No	Yes	Yes	No	L2U86L	No	Yes	Yes	No
FMVAFU	No		Yes	No	L6THZL	No	Yes	Yes	No
FXBWT2	No	Yes	Yes	No	LVA42P	No	Yes	Yes	No
FZ26YW	No	Yes	Yes	No	LWJUMM	No	Yes	Yes	No
G29W74	No	Yes	Yes	No	M6Q8LU	No	Yes	Yes	No
G9TZD7	No	Yes	Yes	No	M73KQQ	No	Yes	Yes	No
GCMRHW	No	Yes	Yes	No	M786EU	No	Yes	Yes	No
GFETRQ	No	Yes	Yes	No	MBEVGZ	No	Yes	Yes	No

TABLE 4

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
MF8R7Q	No	Yes	Yes	No	TT3UCE	No	Yes	Yes	No
MHEA6L	No	Yes	Yes	No	UC7ZEE	No	Yes	Yes	No
MRPCQM	No	Yes	Yes	No	UHX8XM	No	Yes	Yes	No
MTV2NP	No	Yes	Yes	No	UT9WBJ	No	Yes	Yes	No
N3Z94P	No	Yes	Yes	No	UU6CMF	No	Yes	Yes	No
N4WGFF	No	Yes	Yes	No	V4AJ3F	No	Yes	Yes	No
N8CCUR	No	Yes	Yes	No	V7G22B	No	Yes	Yes	No
NQ7TJU	No	Yes	Yes	No	VCMF4F	No	Yes	Yes	No
PGDWWK	No	Yes	Yes	No	VE8KFJ	No	Yes	Yes	No
PHAC8V	No	Inc	Yes	No	VJ4BJB	No	Yes	Yes	No
PL9QUL	No	Yes	Yes	No	VTYHJ	No	Yes	Yes	No
PNE9TG	No	Yes	Yes	No	VYFMDP	No	Yes	Yes	No
PU2YEC	No	Yes	Yes	No	W6Z69C	No	Yes	Yes	No
PVY99U	No	Yes	Yes	No	WP8GYD	No	Yes	Yes	No
PWURAV	No	Yes	Yes	No	WPNQRE	No	Yes	Yes	No
Q9GGKK	No	Yes	Yes	No	X9EYP9	No	Yes	Yes	No
QCGRGK	No	Yes	Yes	No	XAAHQB	No	Yes	Yes	No
QTQJJP	No	Yes	Yes	No	XH2Z6J	No	Yes	Yes	No
R2WM6E	No	Yes	Yes	No	XVQZVL	No	Yes	Yes	No
RCX99T	No	Yes	Yes	No	YFRBFF	No	Yes	Yes	No
RMXYTE	No	Yes	Yes	No	YN3W2N	No	Yes	Yes	No
TD2HGF	No	Yes	Yes	No	YTKUW7	No	Yes	Yes	No
TJMF3H	No		Yes	No	YZJJDA	No	Yes	Yes	No
TR8CAD	No	Yes	Yes	No	Z3Z898	No	No	Yes	No

TABLE 4

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
ZX7AZ4	No	Yes	Yes	No					
ZYYZ7H	No	Yes	Yes	No					

Response Summary					Participants reporting DNA results: 142				
<p><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></p>									
		Victim (Item 1)			Suspect (Item 2)				
		Item 3	Item 4		Item 3	Item 4			
Responses	Yes	0	135		140	0			
	No	140	2		0	140			
	Inc	0	1		0	0			

Participants not reporting Interpretation results: 2

Additional Comments

TABLE 5

WebCode	Additional Comments
2J4X44	Data interpretation is statistically supported for Item 4 with LRmixStudio including probability of drop-in and drop-out.
4EY9D8	Y-STR analysis not performed on Item 1.
6EWZMY	NR = No Results. Data for locus DYS391 on Additional DNA page produced using the PowerPlex® Fusion Kit.
7DFBU7	Multiplex PCR amplifications were performed on the organic @ Phenol/Chloroform (Item 1, Item 2 and Item 3) and Chelex (Item 4) extracted DNA samples using Applied Biosystems AmpFISTR Identifiler Plus (STR) and Yfiler (YSTR) kits. Separations and detection of the amplified products were performed using the Applied Biosystems 3130xl Genetic Analyzer and analysis was carried out by GeneMapper ID v3.2.1 software.
87GZ6T	1. Item 1, Item 2, Item 3 and Item 4 were extracted using the Chelex extraction method. 2. Quantification was carried out using Quantifiler Human DNA Quantitation Kit and carried out by 7500 Real Time PCR. 5. Amplification was done using the AmpFISTR Identifiler Plus kit and AmpFISTR Y-File on Item1, Item 2, Item 3 and Item 4. 6. Electrophoresis was carried out by Genetic Analyzer 3130XL. 7. Reagent Blank, Positive Control and Negative Control were carried out along with the analysis.
982CDX	1- The genetic profile of item (1) refers to single female (victim). 2- The genetic profile of item (2) refers to single male (suspect). 3- The genetic profile of the blood on item (3) refers to the suspect (item 2). 4- Differential extraction was performed for item (4), the genetic profile of the semen refers to unknown male not the suspect (item 2) and the genetic profile for the blood refers to the victim (major profile) mixed with the unknown male (minor profile) same as the genetic profile of the semen.
9H9RJ6	Blood tested on suspect's underwear (item 3) matched suspect. An unknown male DNA profile (designated as 'unknown male 1') was obtained from, in my opinion, the semen tested on the victim's underwear (item 4). A few additional background/trace components were also present within this profile. Attempts to obtain a single source profile from the epithelial fraction (specifically to determine the donor of the blood) on item 4 were unsuccessful, where victim and 'unknown male 1' account for the two clear major contributing DNA profiles obtained. There were a few additional background/trace components present. NB: All additional traces were added to the results sheet in [brackets] regardless of peak heights. Furthermore, they did not affect my interpretation of the major profiles obtained.
9W4C3E	20 allele at DYS576 in sample 4-1s (YSTR amplification) not recorded -peak height above 15% stutter threshold-possibility due to elevated stutter and/or somatic mutation.
AAAGVR	NR = no result. Data for locus DYS391 on Additional DNA page produced using the PowerPlex Fusion Kit.
AJFLJ3	As a technician, I am released to perform DNA analysis on items, but not to make any interpretation of the results.
C93J7Z	Item 1, Item 2, Item 3 and Item 4 were extracted using organic @ Phenol/Chloroform. Item 4 was extracted using Chelex method for differential extraction. Extracted DNA samples were amplified using Applied Biosystems AmpFLSTR Identifiler Plus (STR) and Yfiler (STR) kits. Separations and detection of amplified products were performed using the Applied Biosystems 3130xL Genetic Analyzer and analysis was carried out by GeneMapper ID v3.2.1 software.
C97Z6Y	1) All items (Item1, Item2, Item3 and Item4) were extracted using the Chelex Method and quantification was carried out using the Quantifiler Human DNA Quantification Kit. 2) All items were amplified using AmpFiSTR Identifiler Plus Kit. 3)Y-STR analysis was carried out on Item2, Item3 and Item4 using the AmpFiSTR YFiler Kit. 4) Electrophoresis was carried out using 3130xl Genetic Analyzer. 5) Reagent Blank, Positive and Negative Control were also incorporated throughout the analysis.
CC84ZR	NR = no results. Results for genetic locus DYS391 in "DNA Analysis - Additional DNA" section produced

TABLE 5

WebCode	Additional Comments
	using the PowerPlex Fusion kit.
EH83NM	NR = No Result. DYS391 results in "Additional DNA" page developed from PowerPlex Fusion results.
EYRTL2	@'s in the e.cell fraction indicate additional results below 200 rfu reporting threshold; all results are consistent with carryover from the sperm fraction.
FMVAFU	Lab policy states that reference samples needs to be duplicated for an exclusion. As it currently stands the victim (Item 1) is excluded from the pants (Item 4, blood) but cannot be reported because the duplicate for item 1 is still in process. The results for Item 1 vs Item 4 will be reported as soon as the duplicate result for Item 1 is available.
FXBWT2	No male DNA detected for Item 1 using Plexor HY. * Allele below stochastic threshold
FZ26YW	1. Item 1 to Item 4 were extracted using Chelex extraction method and amplified using Identifiler Plus in the 9700 thermal cycler. 2. Then it was quantified using Quantifiler Human DNA quantitation kit and carried out by 7500 Real Time PCR. Amplification was done using AmpFISTR Identifiler Plus Kit. 3. Item 2, Item 3 and Item 4 were amplified using YFiler Kit in the 9700 Thermal Cyler[sic]. 4. Electrophoresis process were carried out by Genetic Analyzer 3130xl for Item 1 to Item 4. 5. Reagent blank, positive control and negative control were carried out along with the analysis and all gave the intended results.
GU8KA7	GlobalFiler kit missing Yindel and DYS391 in order
H6QGTJ	Data for locus DYS391 on the Additional DNA page produced using PowerPlex Fusion. NR=No Results.
KFJK8W	Test completed for proficiency with DNA standards only (Item 1 and Item 2) examiner only competent in known standards
LWJUMM	1. All items was extracted using QIAamp DNA Investigator kit as indicated by the manufacturer. Differential extraction was performed on item#4, followed by QIAamp DNA Investigator kit. 2. All the extracted DNA was quantified using Quantifiler® Human DNA Quantification kit through 7500 Real Time PCR (Applied Biosystems). 3. All extracted DNA was amplified using PowerPlex® Fusion System (Promega). 4. Y-STR analysis was performed on item#2, #3, and #4-sp using PowerPlex® Y23 System (Promega). 5. Capillary electrophoresis was carried out through AB 3130 xl Genetic Analyzer (Applied Biosystems). 6. Genotype analysis was performed using GeneMapper ID version 3.2.1 software (Applied Biosystems). 7. All procedures was performed according to the laboratory Standard Operating Procedure (SOP).
MTV2NP	1) Chelex extraction method was used to extract DNA from Item 1, Item 2, Item 3 and Item 4. 2) DNA quantitation was carried out using the Quantifiler Human DNA Quantification Kit with Applied Biosystems Real Time Polymerase Chain Reaction (PCR) 7500 System. 3) Amplification of STR (Short Tandem Repeats) Genetic Loci was carried out using the AmpFISTR Identifiler Plus PCR Amplification Kit. 4) Amplification of Y-STR (Short Tandem Repeats) Genetic Loci was carried out using the AmpFISTR Y-Filer PCR Amplification Kit. 5) Capillary electrophoresis was carried out using the Applied Biosystems 3130xl Genetic Analyzer with GeneMapper ID Software. 6) Reagent blank, positive control and negative control were carried out throughout the analysis.
N3Z94P	In my opinion, the findings indicate that the major DNA profile matching the suspect obtained from item 3 originated from blood. In my opinion, the findings indicate that the major DNA profile from the unknown male obtained from item 4 originated from semen. One unconfirmed minor DNA component was present in the result form[sic] Item 3. A few minor unconfirmed DNA components were present in the result from the epithelial fraction of item 4. These were not suitable for meaningful evidential comparison.
N4WGFF	1. It is noted that the genetic profile recovered from the blood in the suspect's underwear (Item 3) is fully consistent with the suspect's profile (Item 2) for all the autosomic and Y chromose[sic] STRs analyzed. Therefore the suspect (Item 2) is not excluded as the source of the blood sample detected in the suspect's underwear (item 3). 2. The suspect (Item 2) is excluded as the source of the cells in the spermatic fraction of the blood and semen mixture stain in the victim's pants (Item 4). 3. An unknown male is not excluded as the source of the cells in the spermatic fraction of the blood and semen mixture stain in the victim's pants (Item 4). 4-The victim (Item 1) is not excluded as the source of the cells in the epithelial fraction of the

TABLE 5

WebCode	Additional Comments
	blood and semen mixture stain in the victim's pants (Item 4).
PHAC8V	"BDL" = Below Detection Limit (i.e. below analytical threshold and not reportable). "Inc." = Inconclusive (i.e. there may be an allele above the analytical threshold but the locus cannot be reported because a sister allele is below the analytical threshold). "ND" = None Detected (i.e. no apparent alleles above or below the analytical threshold). HemaTrace was performed on Item 3 (=positive) and Item 4 (=positive). Microscopic sperm cell search was performed on Item 4 (=sperm cells observed). Item 4 had a second contributor (besides the male profile reported) at 3 loci (which are consistent with the Victim's profile), but there are so many peaks BDL that the Victim can neither be included nor excluded as a potential contributor. Therefore, the result for Victim contributing to Item 4 is being reported as "inconclusive".
PU2YEC	NR = No Results at genetic locus. DYS391 results in Additional DNA section are from PowerPlex Fusion.
Q9GGKK	Y-STR analysis was not performed on item 1 because no male DNA was detected using Quantifiler Duo.
QCGRGK	Y-STR analysis was not performed on item 1 because no male DNA was detected using Quantifiler Duo.
TJMF3H	1. Item 1 to Item 4 were extracted using Chelex extraction method. 2. Quantification was carried out using Human DNA Quantification Kit. 3. PCR were carried out using two multiplex kits; Identifiler Plus kit for Item 1 to Item 4 whilst Y-filer kit for Item 2, Item 3 and Item 4(sp). 4. Electrophoresis was carried out on GA 3130xL. 5. Reagent blank, Negative and Positive Controls were incorporated in the analysis. 6. No DNA profile was obtained from Item 4(e). Thus, no interpretation was able to be carried out on the said item.
VCMF4F	Item 4 semen fraction still in process - 2016-03-07
VYFMDP	BDL = below reporting threshold
YN3W2N	20 allele at DYS576 for 4-1 was evaluated as elevated stutter, based on lack of evidence in the ID+ and PPY 23 amp of any additional source.
YTKUW7	NR = No Result. DYS391 results listed in Part 1: DNA Analysis-Additional DNA were obtained from PowerPlex Fusion.

Appendix: Data Sheet

Collaborative Testing Services ~ Forensic Testing Program

Test No. 16-581: DNA-Mixture

DATA MUST BE RECEIVED BY March 7, 2016 TO BE INCLUDED IN THE REPORT

Participant Code:

WebCode:

Accreditation Release Statement

CTS submits external proficiency test data directly to ASCLD/LAB and ANAB. 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 ANAB.
(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 ANAB.

Scenario:

Police are investigating a sexual assault case involving a female victim who was attacked while walking to her gym. A male suspect was apprehended after video surveillance footage identified him following the victim for several blocks. Screening has been performed on both samples with the following results: Item 3 (suspect's underwear) is positive for blood only, and Item 4 (victim's pants) is positive for a mixture of blood and semen. 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 S1):

- Item 1: Known blood from the female victim.
- Item 2: Known blood from the male suspect.
- Item 3: Questioned blood from the suspect's underwear. (pink material)
- Item 4: Questioned blood and semen mixture from the victim's pants. (green material)

Please return all pages of this data sheet.

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Part I: DNA ANALYSIS

DNA Analysis Instructions:

Use the instructions below to complete the following DNA Analysis sections of this data sheet.

- * Report alleles in numerical order, separated by a comma.
- * Follow your laboratory policy for reporting homozygotes.
- * If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [].
- * Stains with more than one contributor: If a differential extraction is performed, split the box with a horizontal line and report the results of the different fractions above and below the line - indicate which is the sperm fraction (sp) and which is the epithelial fraction (e) (Example A); otherwise, list the alleles in numerical order (Example B).

Example		D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
A	e	10,11	15,16	8	12,13	7	8
	sp	12,13	15,17	8,17	11	14,15	11,13
B		[10],[11],12,13	15,[16],17	8,17	[11],12,13	7,14,15	8,11,13

Additional DNA Results

Please use the section below to report results only for loci not available on the following pages.

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

Please return all pages of this data sheet.

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Part I (continued): DNA Results for Known Item 1

STR Amplification Kit(s) Used For Item 1: Please check all the brands that apply for this item and record any kit specific information in the blank provided (i.e. 16, Plus, Direct, 16 HS, etc.).

<input type="checkbox"/> COfiler®/Profiler Plus® _____	<input type="checkbox"/> PowerPlex® _____
<input type="checkbox"/> Identifiler® _____	<input type="checkbox"/> Other _____

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	Penta D	Penta E	SE33	TH01	TPOX	vWA
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

YSTR Amplification Kit(s) Used For Item 1: Please check all the brands that apply for this item and record any kit specific information in the blank provided (i.e. Plus, 23, etc.).

<input type="checkbox"/> Yfiler® _____	<input type="checkbox"/> PowerPlex® Y _____
<input type="checkbox"/> Other _____	

ITEM	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
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"/>

ITEM	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
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"/>

ITEM	DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	Y Indel
1	<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 I (continued): DNA Results for Known Item 2

STR Amplification Kit(s) Used For Item 2: Please check all the brands that apply for this item and record any kit specific information in the blank provided (i.e. 16, Plus, Direct, 16 HS, etc.).

COfiler®/Profiler Plus® _____
 PowerPlex® _____
 Identifiler® _____
 Other _____

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ITEM	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ITEM	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ITEM	Penta D	Penta E	SE33	TH01	TPOX	vWA
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

YSTR Amplification Kit(s) Used For Item 2: Please check all the brands that apply for this item and record any kit specific information in the blank provided (i.e. Plus, 23, etc.).

Yfiler® _____
 PowerPlex® Y _____
 Other _____

ITEM	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
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"/>
ITEM	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
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"/>
ITEM	DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	Y Indel	
2	<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 I (continued): DNA Results for Questioned Item 3

STR Amplification Kit(s) Used For Item 3: Please check all the brands that apply for this item and record any kit specific information in the blank provided (i.e. 16, Plus, Direct, 16 HS, etc.).

<input type="checkbox"/> COfiler®/Profiler Plus® _____	<input type="checkbox"/> PowerPlex® _____
<input type="checkbox"/> Identifiler® _____	<input type="checkbox"/> Other _____

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

ITEM	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

ITEM	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

ITEM	Penta D	Penta E	SE33	TH01	TPOX	vWA
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

YSTR Amplification Kit(s) Used For Item 3: Please check all the brands that apply for this item and record any kit specific information in the blank provided (i.e. Plus, 23, etc.).

<input type="checkbox"/> Yfiler® _____	<input type="checkbox"/> PowerPlex® Y _____
<input type="checkbox"/> Other _____	

ITEM	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

ITEM	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

ITEM	DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	Y Indel
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please return all pages of this data sheet.

Part I (continued): DNA Results for Questioned Item 4

STR Amplification Kit(s) Used For Item 4: Please check all the brands that apply for this item and record any kit specific information in the blank provided (i.e. 16, Plus, Direct, 16 HS, etc.).

<input type="checkbox"/> COfiler®/Profiler Plus® _____	<input type="checkbox"/> PowerPlex® _____
<input type="checkbox"/> Identifiler® _____	<input type="checkbox"/> Other _____

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
4						

ITEM	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
4						

ITEM	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
4						

ITEM	Penta D	Penta E	SE33	TH01	TPOX	vWA
4						

YSTR Amplification Kit(s) Used For Item 4: Please check all the brands that apply for this item and record any kit specific information in the blank provided (i.e. Plus, 23, etc.).

<input type="checkbox"/> Yfiler® _____	<input type="checkbox"/> PowerPlex® Y _____
<input type="checkbox"/> Other _____	

ITEM	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
4								

ITEM	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
4								

ITEM	DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	Y Indel
4							

Please return all pages of this data sheet.

Part II: 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 III: 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.

Note: Laboratories submitting their results for ASCLD/LAB accreditation are asked to report any additional information that will assist in the review of their results. This includes an explanation of any deviations from a full completion of the test and/or unique findings such as elevated stutter.

<p>Return Instructions: Data must be received via online data entry, fax (please include a cover sheet), or mail by <i>March 07, 2016</i> to be included in the report. Emailed data sheets are not accepted.</p> <p>QUESTIONS? TEL: +1-571-434-1925 (8 am - 4:30 pm EST) EMAIL: forensics@cts-interlab.com www.ctsforensics.com</p>	<p>Participant Code:</p> <p>ONLINE DATA ENTRY: www.cts-portal.com FAX: +1-571-434-1937 MAIL: Collaborative Testing Services, Inc. P.O. Box 650820 Sterling, VA 20165-0820 USA</p>
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Please return all pages of this data sheet.

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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. **16-581: DNA-Mixture**

This release page must be completed and received by **March 7, 2016** 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) _____

ANAB RELEASE

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

ANAB 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.

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