DNA-Semen Test No. 16-584 Summary Report

This proficiency test was sent to 221 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 188 participants (85% response rate) and are compiled into the following tables:

	Page
Manufacturer's Information	2
Summary Comments	4
Table 1: Amplification Kit(s) & STR Results	5
Table 2: YSTR Results	115
Table 3: Additional DNA Results	161
Table 4: DNA Interpretations	163
Table 5: Additional Comments	168
Appendix: Data Sheet	173

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, dark grey material with white bow print (Item 4). Participants were requested to analyze these items using their existing protocols.

SAMPLE PREPARATION: The stains in Items 1, 2 and 3 were prepared from human whole blood which was either drawn into citric acid preservative bloodbank bags or EDTA tubes. 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 µl) was prepared using blood collected from a female donor. Item 2 (50 µl) was prepared using blood collected from a male donor. Item 3 (50 µl) was prepared using blood collected from a different male donor. Item 4 (50 µl) was a mixture containing blood from the Item 1 female donor and semen from the same donor as the donor of the blood used to produce Item 3. 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 July 5, 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. The sealed sample pack envelopes were then packaged in pre-labeled Marvel Heat Seal envelopes and sealed. This process was repeated until all of the sample sets were prepared.

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

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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	15.3,16	23,24	10,11.3	14,17	12,12	8,10
	12,14	14,15	15,23	8,11	11,13	14,17
	13,14	28,31	15,16	X,X	11,11	21,26
	9,12	11,18	13,17	6,9.3	8,11	14,18
2	15,17.3	16,25	11,11	15,18	11,12	8,8
	12,12	13,13	18,24	9,10	11,14	12,15
	13,13	27,30	15,16	X,Y	12,12	21,24
	12,13	7,12	30.2,33	6,8.3	8,10	15,18
3	15,17.3	17,19	11,11	14,17	11,12	7,9
	12,14	13,13	18,23	9,11	9,10	16,16
	14,15	28,30	11,16	X,Y	10,12	18,23
	11,11	7,12	16,18	6,8	8,11	17,19
4-Blood	15.3,16	23,24	10,11.3	14,17	12,12	8,10
	12,14	14,15	15,23	8,11	11,13	14,17
	13,14	28,31	15,16	X,X	11,11	21,26
	9,12	11,18	13,17	6,9.3	8,11	14,18
4-Semen	15,17.3	17,19	11,11	14,17	11,12	7,9
	12,14	13,13	18,23	9,11	9,10	16,16
	14,15	28,30	11,16	X,Y	10,12	18,23
	11,11	7,12	16,18	6,8	8,11	17,19

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	16	12,16	13	30	24	11	11	13
	14	10	13	20	15	18	25	12
	12	18	18	21	12	11	2	
3	14	11,14	12	28	24	11	13	13
	15	12	12	19	17	17	21	12
	12	17	19	23	10	12	2	
4-Semen	14	11,14	12	28	24	11	13	13
	15	12	12	19	17	17	21	12
	12	17	19	23	10	12	2	

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Summary Comments

The DNA-Semen test is part of the DNA Sample Specific Series in which participants are informed 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 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 Item 2 was blood collected from a male donor. Item 3 was blood collected from a male donor whose blood standard was not provided to participants. Item 4 was a mixture containing blood from the Item 1 female donor and semen from the Item 3 male donor. (See Manufacturer's Information for preparation details)

Of the 188 responding, 185 participants reported DNA interpretations. All 185 participants excluded the victim (Item 1) as a possible contributor to the Item 3 sample. There were 182 participants that included the victim (Item 1) as a possible contributor to the Item 4 mixture, while three excluded the victim (Item 1). All 185 participants excluded the suspect (Item 2) as a possible contributor to both the Item 3 sample and the Item 4 mixture.

Twenty-six participants reported allelic results that differed from the consensus/predistribution results. Of these, four participants were missing alleles at one or more loci, seventeen participants reported additional alleles at one or more loci, three participants reported inconsistent alleles at one or more loci, and two participants reported a combination of missing/additional/inconsistent alleles. For thirteen of the seventeen participants that reported additional alleles, it was specifically noted that probabilistic genotyping software results were reported, with "Q" indicating possible missing alleles, and the "@" symbol specifically indicating additional peaks that were observed below 200 RFUs.

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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

2F9QQN	*NGM SElect*						
	1	15.3,16	23,24	10,11.3	14,17		
		12,14	14,15	15,23		11,13	14,17
		13,14	28,31	15,16	X,X		21,26
				13,17	6,9.3		14,18
2F9V4C	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
2FV3QW	*Identifiler® Plus*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11	21,26
					6,9.3	8,11	14,18
2K6F8V	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
2LZXAW	*Identifiler® Plus*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11	21,26
					6,9.3	8,11	14,18
2PJXPC	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
2QR7WC	*GlobalFiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
2WW2FC	*PowerPlex® PP21*						
	1	15.3,16	23,24		14,17	12,12	8,10
		12,14		15,23	8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18

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TABLE 1

Item 1 - STR Results

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
3744CW	*COfiler® and Profiler Plus®*						
	1				14,17	12,12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
37YLEX	*GlobalFiler Express*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
38XP89	*GlobalFiler*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
				13,17	6,9.3	8,11	14,18
3HVPKD	*PowerPlex® 16 HS*						
	1				14,17	12,12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
3QPYNG	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
3V3FKZ	*Globalfiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
3WG6NC	*GlobalFiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
3ZA7M7	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
3ZCWUN	*PowerPlex® Fusion 5C*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18

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TABLE 1

Item 1 - STR Results

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
4EQL4A	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
4FL46B	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
4G24MF	*GlobalFiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
4M3FKX	*PowerPlex® Fusion 6C*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18	13,17	6,9.3	8,11	14,18
4M8Z9Z	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
4P93WG	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
4PBVR4	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
4TCWW8	*GlobalFiler & MiniFiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
62VR78	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18

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TABLE 1

Item 1 - STR Results

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
62WMUJ	*Identifiler® Plus*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
68A8Z6	*Identifiler® Plus*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
6KXAKH	*PowerPlex® Fusion, NGM Select*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18	13,17	6,9.3	8,11	14,18
6LQ3G2	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
6M263Z	*Globalfiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
6YE6YT	*Identifiler® Plus*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11	21,26
					6,9.3	8,11	14,18
6YRYC9	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
72D3MQ	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
739LNR	*Identifiler® Plus*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11	21,26
					6,9.3	8,11	14,18

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TABLE 1

Item 1 - STR Results

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
76E4MN	*Identifiler® Plus*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11	21,26
					6,9.3	8,11	14,18
779UT3	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
7B2UAJ	*Identifiler® , PowerPlex® 21*						
	1	15.3,16	23,24		14,17	12	8,10
		12,14		15,23	8,11	11,13	14,17
		13,14	28,31		X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
7XDRQQ	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
8BV4F7	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
8FPXD8	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
8LG6X2	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
8PZZY8	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
8UBDG7	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18

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TABLE 1

Item 1 - STR Results

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
8XTBBN	*Identifiler®*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
97JFFA	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
9C74CZ	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
9Y2ZQ7							
	1	15.3,16	23,24	10,11.3	14,17		
		12,14	14,15	15,23		11,13	14,17
		13,14	28,31	15,16	X,X		21,26
				13,17	6,9.3		14,18
A69TL2	*Globalfiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
ADZBV4	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
AMM8W6	*Identifiler® Plus*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
B3UQ92	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
B44VLQ	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18

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TABLE 1

Item 1 - STR Results

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
B8QEP9	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
B9MQNH	*Identifiler® Plus*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
BBMXQ8	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
BHMDHZ	*GlobalFiler*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11,11	21,26
				13,17	6,9.3	8,11	14,18
BHNBPP	*GlobalFiler Express*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
BL8B66	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
BMH8EF	*Identifiler® Plus*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
BNCXJV	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
BT7U9L	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18

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TABLE 1

Item 1 - STR Results

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
C9TUDQ	*COfiler® and Profiler Plus®*						
	1				14,17	12,12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
C9XCBP	*GlobalFiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
CDBUT7	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
CEJ2XK	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
CGQJWF	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
CLF297	*GlobalFiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
CV8EAQ	*GlobalFiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
CYQEP8	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
D3JVE7	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18

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TABLE 1

Item 1 - STR Results

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
D7NLLL	*COfiler® and Profiler Plus®*						
	1				14,17	12,12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
DA7L22	*Identifiler® Plus*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
DCC7P2	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
DLZXDE	*PowerPlex® CS7-ESX, GlobalFiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
		9,12	11,18	13,17	6,9.3	8,11	14,18
DMUQ9X	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
E9TCNU	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
ECPVRD	*Identifiler® Plus*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
EHG63C	*GlobalFiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11	21,26
				13,17	6,9.3	8,11	14,18
EPEUJF	*Identifiler®*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18

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TABLE 1

Item 1 - STR Results

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
EQ9KPV	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
EQPW8Z	*GlobalFiler*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
				13,17	6,9.3	8,11	14,18
EY2VYQ	*Globalfiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
F9KPQD	*Globalfiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
FJHUF6	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
FJKJK2	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
GCYJ7A	*Identifiler® Plus*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11	21,26
					6,9.3	8,11	14,18
GFYVZP	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
GG96Q2	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18

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TABLE 1

Item 1 - STR Results

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
GKCZA4	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
GL4RNV	*Identifiler®*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
H444UB	*Identifiler® Plus*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
HFWPWZ	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
HG8L6B	*Identifiler®*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
HKQLLQ	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
HLZTNJ	*PowerPlex® 16 HS*						
	1				14,17	12,12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
HMW4JM	*PowerPlex®*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
HPHT4Y	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18

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TABLE 1

Item 1 - STR Results

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
HV876M	*PowerPlex® FUSION*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
HVNGL8	*Identifiler® Plus*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
HVNMXV	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
J6VJJD	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
J74TAP	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
J7Q3LE	*Identifiler® Plus*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11	21,26
					6,9.3	8,11	14,18
JCEPGK	*COfiler® and Profiler Plus®*						
	1				14,17	12,12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
JKLGNU	*GlobalFiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
JMQC6B	*Identifiler®*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18

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Item 1 - STR Results

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
JR7MHF	*Identifiler® Plus*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11	21,26
					6,9.3	8,11	14,18
K4TBT6	*NGM SElect*						
	1	15.3,16	23,24	10,11.3	14,17		
		12,14	14,15	15,23		11,13	14,17
		13,14	28,31	15,16	X,X		21,26
				13,17	6,9.3		14,18
K7K6RU	*Identifiler® Plus, NGM SElect*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
K97WYQ	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
K9BDXP	*Identifiler® Plus*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
KCQ2CU	*PowerPlex® 16 HS*						
	1				14,17	12,12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
KPU6WN	*Identifiler® Plus*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
KVY48E	*COfiler® and Profiler Plus®*						
	1				14,17	12,12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
KYH3MU	*Identifiler® Plus*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18

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TABLE 1

Item 1 - STR Results

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
L2LDVH	*COfiler® and Profiler Plus®*						
	1				14,17	12,12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
LAWEFH	*Globalfiler Express*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
				13,17	6,9.3	8,11	14,18
LVV3KJ	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
MDFUJH	*Identifiler® Plus*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
MFHRTQ	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
MGF3NT	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
MU2CE6	*Identifiler® Plus*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
MW9WYY	*PowerPlex® FUSION*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
MZ6JRM	*Identifiler® Plus*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18

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TABLE 1

Item 1 - STR Results

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
N3U63P	*GlobalFiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
N4HLCW	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
N4JD9J	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
N8JLCU	*GlobalFiler*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
				13,17	6,9.3	8,11	14,18
NANAU6	*Identifiler® Plus (+)*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
NE2VZQ	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
NGU26N	*PowerPlex®*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
NLFZCN	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
NMGVZZ	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18

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TABLE 1

Item 1 - STR Results

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
NRUG7L	*Identifiler® Plus*					
1		23,24		14,17	12,12	8,10
	12,14			8,11	11,13	14,17
	13,14	28,31		X,X	11,11	21,26
				6,9.3	8,11	14,18
NV6N8Q	*PowerPlex® 16*					
1				14,17	12	8,10
	12,14			8,11	11,13	14,17
		28,31		X,X	11	21,26
	9,12	11,18		6,9.3	8,11	14,18
NVRXK2	*IDPlex Plus*					
1		23,24		14,17	12,12	8,10
	12,14			8,11	11,13	14,17
	13,14	28,31		X,X	11,11	21,26
				6,9.3	8,11	14,18
P9CWP9	*Identifiler® Plus*					
1		23,24		14,17	12	8,10
	12,14			8,11	11,13	14,17
	13,14	28,31		X,X	11	21,26
				6,9.3	8,11	14,18
PEHQJ4	*Identifiler®*					
1		23,24		14,17	12,12	8,10
	12,14			8,11	11,13	14,17
	13,14	28,31		X,X	11,11	21,26
				6,9.3	8,11	14,18
PRLU7J	*Identifiler®*					
1		23,24		14,17	12	8,10
	12,14			8,11	11,13	14,17
	13,14	28,31		X	11	21,26
				6,9.3	8,11	14,18
PTXNQQ	*PowerPlex® 16 HS*					
1				14,17	12,12	8,10
	12,14			8,11	11,13	14,17
		28,31		X,X	11,11	21,26
	9,12	11,18		6,9.3	8,11	14,18
PXRQQJ	*Identifiler® Plus*					
1		23,24		14,17	12,12	8,10
	12,14			8,11	11,13	14,17
	13,14	28,31		X,X	11,11	21,26
				6,9.3	8,11	14,18
Q327XM	*PowerPlex® 16*					
1				14,17	12	8,10
	12,14			8,11	11,13	14,17
		28,31		X,X	11	21,26
	9,12	11,18		6,9.3	8,11	14,18

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TABLE 1

Item 1 - STR Results

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
QQACPY	*PowerPlex® Fusion, GlobalFiler™*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
		9,12	11,18	13,17	6,9.3	8,11	14,18
QR43VD	*Globalfiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
QUBKTA	*COfiler® and Profiler Plus®*						
	1				14,17	12,12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
QVFBWH	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
QYFGDA	*GlobalFiler Express*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
R6LA86	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
R7FZDJ	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
RRXBG3	*Identifiler®*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
RZQKMR	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18

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TABLE 1

Item 1 - STR Results

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
TAQQVJ	*GlobalFiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
TCFY2E	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
TRV6BT	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
TT8YUY	*SURE ID*						
	1	15.3,15.3	23,24		14,17	12,12	8,10
		12,14		15,23	8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
TXKK2K	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
TXY7D8	*GlobalFiler Express*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
TYWA7H	*Globalfiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
TZKQFQ	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
UBZ39E	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18

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TABLE 1

Item 1 - STR Results

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
UH44BU	*PowerPlex® Fusion 5C*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
UHMP4K	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
UJWUG9	*COfiler® and Profiler Plus®*						
	1				14,17	12,12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
URP8EM	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
UTKQGN	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
VJANVN	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
VN88Y8	*PowerPlex® 16*						
	1				14,17	12,12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
VY8XHU	*Identifiler® Plus*						
	1		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
WBCD34	*GlobalFiler Express*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18

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TABLE 1

Item 1 - STR Results

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
WRJC9L							
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
				13,17	6,9.3	8,11	14,18
WXQ2QU	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
WYYD7B	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
XC6LPE	*GlobalFiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
XDEMNA	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
XF6XLD	*GlobalFiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
XHTDVL	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
XTCMJF	*PowerPlex® 16*						
	1				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
XULTYP	*Investigator ESSplex SE Plus*						
	1	15.3,16	23,24	10,11.3	14,17		
		12,14	14,15	15,23		11,13	14,17
		13,14	28,31	15,16	X,X		21,26
				13,17	6,9.3		14,18

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TABLE 1

Item 1 - STR Results

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
Y2FKH3	*PowerPlex® 16 HS*						
	1				14,17	12,12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
Y3DUD7	*Identifiler® Plus*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
Y3UR4K	*GlobalFiler*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
Y6XJXH	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
YGCCQY	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
YLQCMQ	*Identifiler®*						
	1		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
Z6EVE3	*PowerPlex® 16*						
	1				14,17	12,12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
Z6X2DT	*COfiler® and Profiler Plus® - Profiler® Plus*						
	1				14,17	12,12	8,10
		12,14			8,11		14,17
			28,31		X,X		21,26
							14,18
ZGEJEC	*PowerPlex® Fusion*						
	1	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18

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TABLE 1

Item 2 - STR Results

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
2F9QQN	*NGM SElect*					
2	15,17.3	16,25	11,11	15,18		
	12,12	13,13	18,24		11,14	12,15
	13,13	27,30	15,16	X,Y		21,24
			30.2,33	6,8.3		15,18
2F9V4C	*PowerPlex® 16*					
2				15,18	11,12	8
	12			9,10	11,14	12,15
		27,30		X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
2FV3QW	*Identifiler® Plus*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
2K6F8V	*PowerPlex® Fusion*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
2LZXAW	*Identifiler® Plus*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
2PJXPC	*PowerPlex® 16*					
2				15,18	11,12	8
	12			9,10	11,14	12,15
		27,30		X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
2QR7WC	*GlobalFiler*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
			30.2,33	6,8.3	8,10	15,18
2WW2FC	*PowerPlex® PP21*					
2	15,17.3	16,25		15,18	11,12	8,8
	12,12		18,24	9,10	11,14	12,15
	13,13	27,30		X,Y	12,12	21,24
	12,13	7,12		6,8.3	8,10	15,18
3744CW	*COfiler® and Profiler Plus®*					
2				15,18	11,12	8,8
	12,12			9,10	11,14	12,15
		27,30		X,Y	12,12	21,14
				6,8.3	8,10	15,18

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TABLE 1

Item 2 - STR Results

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
37YLEX	*GlobalFiler Express*						
	2	15,17.3	16,25	11	15,18	11,12	8
		12	13	18,24	9,10	11,14	12,15
		13	27,30	15,16	X,Y	12	21,24
				30.2,33	6,8.3	8,10	15,18
38XP89	*GlobalFiler*						
	2	15,17.3	16,25	11,11	15,18	11,12	8,8
		12,12	13,13	18,24	9,10	11,14	12,15
		13,13	27,30	15,16	X,Y	12,12	21,24
				30.2,33	6,8.3	8,10	15,18
3HVPKD	*PowerPlex® 16 HS*						
	2				15,18	11,12	8,8
		12,12			9,10	11,14	12,15
			27,30		X,Y	12,12	21,24
		12,13	7,12		6,8.3	8,10	15,18
3QPYNG	*PowerPlex® Fusion*						
	2	15,17.3	16,25	11	15,18	11,12	8
		12	13	18,24	9,10	11,14	12,15
		13	27,30	15,16	X,Y	12	21,24
		12,13	7,12		6,8.3	8,10	15,18
3V3FKZ	*Globalfiler*						
	2	15,17.3	16,25	11	15,18	11,12	8
		12	13	18,24	9,10	11,14	12,15
		13	27,30	15,16	X,Y	12	21,24
				30.2,33	6,8.3	8,10	15,18
3WG6NC	*GlobalFiler*						
	2	15,17.3	16,25	11	15,18	11,12	8
		12	13	18,24	9,10	11,14	12,15
		13	27,30	15,16	X,Y	12	21,24
				30.2,33	6,8.3	8,10	15,18
3ZA7M7	*Identifiler®*						
	2		16,25		15,18	11,12	8
		12			9,10	11,14	12,15
		13	27,30		X,Y	12	21,24
					6,8.3	8,10	15,18
3ZCWUN	*PowerPlex® Fusion 5C*						
	2	15,17.3	16,25	11,11	15,18	11,12	8,8
		12,12	13,13	18,24	9,10	11,14	12,15
		13,13	27,30	15,16	X,Y	12,12	21,24
		12,13	7,12		6,8.3	8,10	15,18
4EQL4A	*PowerPlex® 16*						
	2				15,18	11,12	8
		12			9,10	11,14	12,15
			27,30		X,Y	12	21,24
		12,13	7,12		6,8.3	8,10	15,18

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TABLE 1

Item 2 - STR Results

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
4FL46B	*PowerPlex® 16*					
2				15,18	11,12	8
	12			9,10	11,14	12,15
		27,30		X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
4G24MF	*GlobalFiler*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
			30.2,33	6,8.3	8,10	15,18
4M3FKX	*PowerPlex® Fusion 6C*					
2	15,17.3	16,25	11,11	15,18	11,12	8,8
	12,12	13,13	18,24	9,10	11,14	12,15
	13,13	27,30	15,16	X,Y	12,12	21,24
	12,13	7,12	30.2,33	6,8.3	8,10	15,18
4M8Z9Z	*Identifiler®*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
4P93WG	*PowerPlex® FUSION*					
2	15,17.3	16,25	11,11	15,18	11,12	8,8
	12,12	13,13	18,24	9,10	11,14	12,15
	13,13	27,30	15,16	X,Y	12,12	21,24
	12,13	7,12		6,8.3	8,10	15,18
4PBVR4	*Identifiler®*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
4TCWW8	*GlobalFiler*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
			30.2,33	6,8.3	8,10	15,18
62VR78	*PowerPlex® 16*					
2				15,18	11,12	8
	12			9,10	11,14	12,15
		27,30		X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
62WMUJ	*Identifiler® Plus*					
2		16,25		15,18	11,12	8,8
	12,12			9,10	11,14	12,15
	13,13	27,30		X,Y	12,12	21,24
				6,8.3	8,10	15,18

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TABLE 1

Item 2 - STR Results

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
68A8Z6	*Identifiler® Plus*					
2		16,25		15,18	11,12	8,8
	12,12			9,10	11,14	12,15
	13,13	27,30		X,Y	12,12	21,24
				6,8.3	8,10	15,18
6KXAKH	*NGM Select*					
2	15,17.3	16,25	11,11	15,18		
	12,12	13,13	18,24		11,14	12,15
	13,13	27,30	15,16	X,Y		21,24
			30.2,33	6,8.3		15,18
6LQ3G2	*PowerPlex® Fusion*					
2	15,17.3	16,25	11,11	15,18	11,12	8,8
	12,12	13,13	18,24	9,10	11,14	12,15
	13,13	27,30	15,16	X,Y	12,12	21,24
	12,13	7,12		6,8.3	8,10	15,18
6M263Z	*Globalfiler*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
			30.2,33	6,8.3	8,10	15,18
6YE6YT	*Identifiler® Plus*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
6YRYC9	*PowerPlex® 16*					
2				15,18	11,12	8
	12			9,10	11,14	12,15
		27,30		X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
72D3MQ	*PowerPlex® Fusion*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
739LNR	*Identifiler® Plus*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
76E4MN	*Identifiler® Plus*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18

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TABLE 1

Item 2 - STR Results

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
779UT3	*Identifiler®*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
7B2UAJ	*PowerPlex® 21*					
2	15,17.3	16,25		15,18	11,12	8
	12		18,24	9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
7XDRQQ	*PowerPlex® Fusion*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
8BV4F7	*PowerPlex® 16*					
2				15,18	11,12	8
	12			9,10	11,14	12,15
		27,30		X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
8FPXD8	*PowerPlex® 16*					
2				15,18	11,12	8
	12			9,10	11,14	12,15
		27,30		X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
8LG6X2	*Identifiler®*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
8PZZY8	*PowerPlex® 16*					
2				15,18	11,12	8
	12			9,10	11,14	12,15
		27,30		X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
8UBDG7	*PowerPlex® 16*					
2				15,18	11,12	8
	12			9,10	11,14	12,15
		27,30		X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
8XTBBN	*Identifiler®*					
2		16,25		15,18	11,12	8,8
	12,12			9,10	11,14	12,15
	13,13	27,30		X,Y	12,12	21,24
				6,8.3	8,10	15,18

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TABLE 1

Item 2 - STR Results

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
97JFFA	*Identifiler®*					
	2		16,25		15,18	11,12	8
		12			9,10	11,14	12,15
		13	27,30		X,Y	12	21,24
					6,8.3	8,10	15,18
9C74CZ	*Identifiler®*					
	2		16,25		15,18	11,12	8
		12			9,10	11,14	12,15
		13	27,30		X,Y	12	21,24
					6,8.3	8,10	15,18
9Y2ZQ7							
	2	15,17.3	16,25	11,11	15,18		
		12,12	13,13	18,24		11,14	12,15
		13,13	27,30	15,16	X,Y		21,24
				30.2,33	6,8.3		15,18
A69TL2	*Globalfiler*					
	2	15,17.3	16,25	11	15,18	11,12	8
		12	13	18,24	9,10	11,14	12,15
		13	27,30	15,16	X,Y	12	21,24
				30.2,33	6,8.3	8,10	15,18
ADZBV4	*PowerPlex® 16*					
	2				15,18	11,12	8
		12			9,10	11,14	12,15
			27,30		X,Y	12	21,24
		12,13	7,12		6,8.3	8,10	15,18
AMM8W6	*Identifiler® Plus*					
	2		16,25		15,18	11,12	8,8
		12,12			9,10	11,14	12,15
		13,13	27,30		X,Y	12,12	21,24
					6,8.3	8,10	15,18
B3UQ92	*PowerPlex® 16*					
	2				15,18	11,12	8
		12			9,10	11,14	12,15
			27,30		X,Y	12	21,24
		12,13	7,12		6,8.3	8,10	15,18
B44VLQ	*PowerPlex® Fusion*					
	2	15,17.3	16,25	11	15,18	11,12	8
		12	13	18,24	9,10	11,14	12,15
		13	27,30	15,16	X,Y	12	21,24
		12,13	7,12		6,8.3	8,10	15,18
B8QEP9	*PowerPlex® Fusion*					
	2	15,17.3	16,25	11	15,18	11,12	8
		12	13	18,24	9,10	11,14	12,15
		13	27,30	15,16	X,Y	12	21,24
		12,13	7,12		6,8.3	8,10	15,18

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TABLE 1

Item 2 - STR Results

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
B9MQNH	*Identifiler® Plus*					
2		16,25		15,18	11,12	8,8
	12,12			9,10	11,14	12,15
	13,13	27,30		X,Y	12,12	21,24
				6,8.3	8,10	15,18
BBMXQ8	*Identifiler®*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
BHMDHZ	*GlobalFiler*					
2	15,17.3	16,25	11,11	15,18	11,12	8,8
	12,12	13,13	18,24	9,10	11,14	12,15
	13,13	27,30	15,16	X,Y	12,12	21,24
			30.2,33	6,8.3	8,10	15,18
BHNBPP	*GlobalFiler Express*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
			30.2,33	6,8.3	8,10	15,18
BL8B66	*PowerPlex® 16*					
2				15,18	11,12	8
	12			9,10	11,14	12,15
		27,30		X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
BMH8EF	*Identifiler® Plus*					
2		16,25		15,18	11,12	8,8
	12,12			9,10	11,14	12,15
	13,13	27,30		X,Y	12,12	21,24
				6,8.3	8,10	15,18
BNCXJV	*PowerPlex® Fusion*					
2	15,17.3	16,25	11,11	15,18	11,12	8,8
	12,12	13,13	18,24	9,10	11,14	12,15
	13,13	27,30	15,16	X,Y	12,12	21,24
	12,13	7,12		6,8.3	8,10	15,18
BT7U9L	*PowerPlex® Fusion*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
C9TUDQ	*COfiler® and Profiler Plus®*					
2				15,18	11,12	8,8
	12,12			9,10	11,14	12,15
		27,30		X,Y	12,12	21,24
				6,8.3	8,10	15,18

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Item 2 - STR Results

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
C9XCBP	*GlobalFiler*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
			30.2,33	6,8.3	8,10	15,18
CDBUT7	*Identifiler®*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
CEJ2XK	*PowerPlex® Fusion*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
CGQJWF	*Identifiler®*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
CLF297	*GlobalFiler*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
			30.2,33	6,8.3	8,10	15,18
CV8EAQ	*GlobalFiler*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
			30.2,33	6,8.3	8,10	15,18
CYQEP8	*Identifiler®*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
D3JVE7	*PowerPlex® Fusion*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
D7NLLL	*COfiler® and Profiler Plus®*					
2				15,18	11,12	8,8
	12,12			9,10	11,14	12,15
		27,30		X,Y	12,12	21,24
				6,8.3	8,10	15,18

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TABLE 1

Item 2 - STR Results

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
DA7L22	*Identifiler® Plus*					
2		16,25		15,18	11,12	8,8
	12,12			9,10	11,14	12,15
	13,13	27,30		X,Y	12,12	21,24
				6,8.3	8,10	15,18
DCC7P2	*PowerPlex® 16*					
2				15,18	11,12	8
	12			9,10	11,14	12,15
		27,30		X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
DLZXDE	*PowerPlex® CS7-ESX, GlobalFiler*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
	12,13	7,12	30.2,33	6,8.3	8,10	15,18
DMUQ9X	*Identifiler®*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
E9TCNU	*Identifiler®*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
ECPVRD	*Identifiler® Plus*					
2		16,25		15,18	11,12	8,8
	12,12			9,10	11,14	12,15
	13,13	27,30		X,Y	12,12	21,24
				6,8.3	8,10	15,18
EHG63C	*GlobalFiler*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
			30.2,33	6,8.3	8,10	15,18
EPEUJF	*Identifiler®*					
2		16,25		15,18	11,12	8,8
	12,12			9,10	11,14	12,15
	13,13	27,30		X,Y	12,12	21,24
				6,8.3	8,10	15,18
EQ9KPV	*Identifiler®*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18

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TABLE 1

Item 2 - STR Results

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
EQPW8Z	*GlobalFiler*					
2	15,17.3	16,25	11,11	15,18	11,12	8,8
	12,12	13,13	18,24	9,10	11,14	12,15
	13,13	27,30	15,16	X,Y	12,12	21,24
			30.2,33	6,8.3	8,10	15,18
EY2VYQ	*Globalfiler*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
			30.2,33	6,8.3	8,10	15,18
F9KPQD	*Globalfiler*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
			30.2,33	6,8.3	8,10	15,18
FJHUF6	*PowerPlex® Fusion*					
2	15,17.3	16,25	11,11	15,18	11,12	8,8
	12,12	13,13	18,24	9,10	11,14	12,15
	13,13	27,30	15,16	X,Y	12,12	21,24
	12,13	7,12		6,8.3	8,10	15,18
FJKJK2	*Identifiler®*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
GCYJ7A	*Identifiler® Plus*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
GFYVZP	*PowerPlex® Fusion*					
2	15,17.3	16,25	11,11	15,18	11,12	8,8
	12,12	13,13	18,24	9,10	11,14	12,15
	13,13	27,30	15,16	X,Y	12,12	21,24
	12,13	7,12		6,8.3	8,10	15,18
GG96Q2	*Identifiler®*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
GKCZA4	*PowerPlex® Fusion*					
2	15,17.3	16,25	11,11	15,18	11,12	8,8
	12,12	13,13	18,24	9,10	11,14	12,15
	13,13	27,30	15,16	X,Y	12,12	21,24
	12,13	7,12		6,8.3	8,10	15,18

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TABLE 1

Item 2 - STR Results

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
GL4RNV	*Identifiler®*						
	2		16,25		15,18	11,12	8,8
		12,12			9,10	11,14	12,15
		13,13	27,30		X,Y	12,12	21,24
					6,8.3	8,10	15,18
H444UB	*Identifiler® Plus*						
	2		16,25		15,18	11,12	8,8
		12,12			9,10	11,14	12,15
		13,13	27,30		X,Y	12,12	21,24
					6,8.3	8,10	15,18
HFWPWZ	*Identifiler®*						
	2		16,25		15,18	11,12	8
		12			9,10	11,14	12,15
		13	27,30		X,Y	12	21,24
					6,8.3	8,10	15,18
HG8L6B	*Identifiler®*						
	2		16,25		15,18	11,12	8,8
		12,12			9,10	11,14	12,15
		13,13	27,30		X,Y	12,12	21,24
					6,8.3	8,10	15,18
HKQLLQ	*Identifiler®*						
	2		16,25		15,18	11,12	8
		12			9,10	11,14	12,15
		13	27,30		X,Y	12	21,24
					6,8.3	8,10	15,18
HLZTNJ	*PowerPlex® 16 HS*						
	2				15,18	11,12	8,8
		12,12			9,10	11,14	12,15
			27,30		X,Y	12,12	21,24
		12,13	7,12		6,8.3	8,10	15,18
HMW4JM	*PowerPlex®*						
	2	15,17.3	16,25	11,11	15,18	11,12	8,8
		12,12	13,13	18,24	9,10	11,14	12,15
		13,13	27,30	15,16	X,Y	12,12	21,24
		12,13	7,12		6,8.3	8,10	15,18
HPHT4Y	*Identifiler®*						
	2		16,25		15,18	11,12	8
		12			9,10	11,14	12,15
		13	27,30		X,Y	12	21,24
					6,8.3	8,10	15,18
HV876M	*PowerPlex® FUSION*						
	2	15,17.3	16,25	11,11	15,18	11,12	8,8
		12,12	13,13	18,24	9,10	11,14	12,15
		13,13	27,30	15,16	X,Y	12,12	21,24
		12,13	7,12		6,8.3	8,10	15,18

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TABLE 1

Item 2 - STR Results

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
HVNGL8	*Identifiler® Plus*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
HVNMXV	*PowerPlex® 16*					
2				15,18	11,12	8
	12			9,10	11,14	12,15
		27,30		X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
J6VJJD	*PowerPlex® Fusion*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
J74TAP	*Identifiler®*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
J7Q3LE	*Identifiler® Plus*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
JCEPGK	*COfiler® and Profiler Plus®*					
2				15,18	11,12	8,8
	12,12			9,10	11,14	12,15
		27,30		X,Y	12,12	21,24
				6,8.3	8,10	15,18
JKLGNU	*GlobalFiler*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
			30.2,33	6,8.3	8,10	15,18
JMQC6B	*Identifiler®*					
2		16,25		15,18	11,12	8,8
	12,12			9,10	11,14	12,15
	13,13	27,30		X,Y	12,12	21,24
				6,8.3	8,10	15,18
JR7MHF	*Identifiler® Plus*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18

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TABLE 1

Item 2 - STR Results

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
K4TBT6	*NGM SElect*						
	2	15,17.3	16,25	11,11	15,18		
		12,12	13,13	18,24		11,14	12,15
		13,13	27,30	15,16	X,Y		21,24
				30.2,33	6,8.3		15,18
K7K6RU	*Identifiler® Plus, NGM SElect*						
	2		16,25		15,18	11,12	8,8
		12,12			9,10	11,14	12,15
		13,13	27,30		X,Y	12,12	21,24
					6,8.3	8,10	15,18
K97WYQ	*Identifiler®*						
	2		16,25		15,18	11,12	8
		12			9,10	11,14	12,15
		13	27,30		X,Y	12	21,24
					6,8.3	8,10	15,18
K9BDXP	*Identifiler® Plus*						
	2		16,25		15,18	11,12	8,8
		12,12			9,10	11,14	12,15
		13,13	27,30		X,Y	12,12	21,24
					6,8.3	8,10	15,18
KCQ2CU	*PowerPlex® 16 HS*						
	2				15,18	11,12	8,8
		12,12			9,10	11,14	12,15
			27,30		X,Y	12,12	21,24
		12,13	7,12		6,8.3	8,10	15,18
KPU6WN	*Identifiler® Plus*						
	2		16,25		15,18	11,12	8,8
		12,12			9,10	11,14	12,15
		13,13	27,30		X,Y	12,12	21,24
					6,8.3	8,10	15,18
KVY48E	*COfiler® and Profiler Plus®*						
	2				15,18	11,12	8,8
		12,12			9,10	11,14	12,15
			27,30		X,Y	12,12	21,24
					6,8.3	8,10	15,18
KYH3MU	*Identifiler® Plus*						
	2		16,25		15,18	11,12	8,8
		12,12			9,10	11,14	12,15
		13,13	27,30		X,Y	12,12	21,24
					6,8.3	8,10	15,18
L2LDVH	*COfiler® and Profiler Plus®*						
	2				15,18	11,12	8,8
		12,12			9,10	11,14	12,15
			27,30		X,Y	12,12	21,24
					6,8.3	8,10	15,18

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TABLE 1

Item 2 - STR Results

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
LAWEFH	*Globalfiler*						
	2	15,17.3	16,25	11,11	15,18	11,12	8,8
		12,12	13,13	18,24	9,10	11,14	12,15
		13,13	27,30	15,16	X,Y	12,12	21,24
				30.2,33	6,8.3	8,10	15,18
LVV3KJ	*PowerPlex® Fusion*						
	2	15,17.3	16,25	11,11	15,18	11,12	8,8
		12,12	13,13	18,24	9,10	11,14	12,15
		13,13	27,30	15,16	X,Y	12,12	21,24
		12,13	7,12		6,8.3	8,10	15,18
MDFUJH	*Identifiler® Plus*						
	2		16,25		15,18	11,12	8
		12			9,10	11,14	12,15
		13	27,30		X,Y	12	21,24
					6,8.3	8,10	15,18
MFHRTQ	*PowerPlex® 16*						
	2				15,18	11,12	8
		12			9,10	11,14	12,15
			27,30		X,Y	12	21,24
		12,13	7,12		6,8.3	8,10	15,18
MGF3NT	*PowerPlex® 16*						
	2				15,18	11,12	8
		12			9,10	11,14	12,15
			27,30		X,Y	12	21,24
		12,13	7,12		6,8.3	8,10	15,18
MU2CE6	*Identifiler® Plus*						
	2		16,25		15,18	11,12	8,8
		12,12			9,10	11,14	12,15
		13,13	27,30		X,Y	12,12	21,24
					6,8.3	8,10	15,18
MW9WYY	*PowerPlex® FUSION*						
	2	15,17.3	16,25	11	15,18	11,12	8
		12	13	18,24	9,10	11,14	12,15
		13	27,30	15,16	X,Y	12	21,24
		12,13	7,12		6,8.3	8,10	15,18
MZ6JRM	*Identifiler® Plus*						
	2		16,25		15,18	11,12	8,8
		12,12			9,10	11,14	12,15
		13,13	27,30		X,Y	12,12	21,24
					6,8.3	8,10	15,18
N3U63P	*GlobalFiler*						
	2	15,17.3	16,25	11,11	15,18	11,12	8,8
		12,12	13,13	18,24	9,10	11,14	12,15
		13,13	27,30	15,16	X,Y	12,12	21,24
				30.2,33	6,8.3	8,10	15,18

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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
N4HLCW	*PowerPlex® Fusion*						
	2	15,17.3	16,25	11,11	15,18	11,12	8,8
		12,12	13,13	18,24	9,10	11,14	12,15
		13,13	27,30	15,16	X,Y	12,12	21,24
		12,13	7,12		6,8.3	8,10	15,18
N4JD9J	*Identifiler®*						
	2		16,25		15,18	11,12	8
		12			9,10	11,14	12,15
		13	27,30		X,Y	12	21,24
					6,8.3	8,10	15,18
N8JLCU	*GlobalFiler*						
	2	15,17.3	16,25	11,11	15,18	11,12	8,8
		12,12	13,13	18,24	9,10	11,14	12,15
		13,13	27,30	15,16	X,Y	12,12	21,24
				30.2,33	6,8.3	8,10	15,18
NANAU6	*Identifiler® Plus (+)*						
	2		16,25		15,18	11,12	8,8
		12,12			9,10	11,14	12,15
		13,13	27,30		X,Y	12,12	21,24
					6,8.3	8,10	15,18
NE2VZQ	*PowerPlex® 16*						
	2				15,18	11,12	8
		12			9,10	11,14	12,15
			27,30		X,Y	12	21,24
		12,13	7,12		6,8.3	8,10	15,18
NGU26N	*PowerPlex®*						
	2	15,17.3	16,25	11	15,18	11,12	8
		12	13	18,24	9,10	11,14	12,15
		13	27,30	15,16	X,Y	12	21,24
		12,13	7,12		6,8.3	8,10	15,18
NLFZCN	*PowerPlex® 16*						
	2				15,18	11,12	8
		12			9,10	11,14	12,15
			27,30		X,Y	12	21,24
		12,13	7,12		6,8.3	8,10	15,18
NMGVZZ	*PowerPlex® Fusion*						
	2	15,17.3	16,25	11,11	15,18	11,12	8,8
		12,12	13,13	18,24	9,10	11,14	12,15
		13,13	27,30	15,16	X,Y	12,12	21,24
		12,13	7,12		6,8.3	8,10	15,18
NRUG7L	*Identifiler® Plus*						
	2		16,25		15,18	11,12	8,8
		12,12			9,10	11,14	12,15
		13,13	27,30		X,Y	12,12	21,24
					6,8.3	8,10	15,18

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TABLE 1

Item 2 - STR Results

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
NV6N8Q	*PowerPlex® 16*					
2				15,18	11,12	8
	12			9,10	11,14	12,15
		27,30		X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
NVRXK2	*IDPlex Plus*					
2		16,25		15,18	11,12	8,8
	12,12			9,10	11,14	12,15
	13,13	27,30		X,Y	12,12	21,24
				6,8.3	8,10	15,18
P9CWP9	*Identifiler® Plus*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
PEHQJ4	*Identifiler®*					
2		16,25		15,18	11,12	8,8
	12,12			9,10	11,14	12,15
	13,13	27,30		X,Y	12,12	21,24
				6,8.3	8,10	15,18
PRLU7J	*Identifiler®*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
PTXNQQ	*PowerPlex® 16 HS*					
2				15,18	11,12	8,8
	12,12			9,10	11,14	12,15
		27,30		X,Y	12,12	21,24
	12,13	7,12		6,8.3	8,10	15,18
PXRQQJ	*Identifiler® Plus*					
2		16,25		15,18	11,12	8,8
	12,12			9,10	11,14	12,15
	13,13	27,30		X,Y	12,12	21,24
				6,8.3	8,10	15,18
Q327XM	*PowerPlex® 16*					
2				15,18	11,12	8
	12			9,10	11,14	12,15
		27,30		X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
QQACPY	*PowerPlex® Fusion, GlobalFiler™*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
	12,13	7,12	30.2,33	6,8.3	8,10	15,18

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TABLE 1

Item 2 - STR Results

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
QR43VD	*Globalfiler*						
	2	15,17.3	16,25	11	15,18	11,12	8
		12	13	18,24	9,10	11,14	12,15
		13	27,30	15,16	X,Y	12	21,24
				30.2,33	6,8.3	8,10	15,18
QUBKTA	*COfiler® and Profiler Plus®*						
	2				15,18	11,12	8,8
		12,12			9,10	11,14	12,15
			27,30		X,Y	12,12	21,24
					6,8.3	8,10	15,18
QVFBWH	*Identifiler®*						
	2		16,25		15,18	11,12	8
		12			9,10	11,14	12,15
		13	27,30		X,Y	12	21,24
					6,8.3	8,10	15,18
QYFGDA	*GlobalFiler Express*						
	2	15,17.3	16,25	11	15,18	11,12	8
		12	13	18,24	9,10	11,14	12,15
		13	27,30	15,16	X,Y	12	21,24
				30.2,33	6,8.3	8,10	15,18
R6LA86	*PowerPlex® Fusion*						
	2	15,17.3	16,25	11	15,18	11,12	8
		12	13	18,24	9,10	11,14	12,15
		13	27,30	15,16	X,Y	12	21,24
		12,13	7,12		6,8.3	8,10	15,18
R7FZDJ	*Identifiler®*						
	2		16,25		15,18	11,12	8
		12			9,10	11,14	12,15
		13	27,30		X,Y	12	21,24
					6,8.3	8,10	15,18
RRXBG3	*Identifiler®*						
	2		16,25		15,18	11,12	8,8
		12,12			9,10	11,14	12,15
		13,13	27,30		X,Y	12,12	21,24
					6,8.3	8,10	15,18
RZQKMR	*Identifiler®*						
	2		16,25		15,18	11,12	8
		12			9,10	11,14	12,15
		13	27,30		X,Y	12	21,24
					6,8.3	8,10	15,18
TAQQVJ	*GlobalFiler; MiniFiler*						
	2	15,17.3	16,25	11	15,18	11,12	8
		12	13	18,24	9,10	11,14	12,15
		13	27,30	15,16	X,Y	12	21,24
				30.2,33	6,8.3	8,10	15,18

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TABLE 1

Item 2 - STR Results

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
TCFY2E	*Identifiler®*					
	2		16,25		15,18	11,12	8
		12			9,10	11,14	12,15
		13	27,30		X,Y	12	21,24
					6,8.3	8,10	15,18
TRV6BT	*PowerPlex® Fusion*						
	2	15,17.3	16,25	11	15,18	11,12	8
		12	13	18,24	9,10	11,14	12,15
		13	27,30	15,16	X,Y	12	21,24
		12,13	7,12		6,8.3	8,10	15,18
TT8YUY	*SURE ID*						
	2	15,17.3	16,25		15,18	11,12	8,8
		12,12		18,24	9,10	11,14	12,15
		13,13	27,30		X,Y	12,12	21,24
		12,13	7,12		6,8.3	8,10	15,18
TXKK2K	*PowerPlex® 16*						
	2				15,18	11,12	8
		12			9,10	11,14	12,15
			27,30		X,Y	12	21,24
		12,13	7,12		6,8.3	8,10	15,18
TXY7D8	*GlobalFiler Express*						
	2	15,17.3	16,25	11	15,18	11,12	8
		12	13	18,24	9,10	11,14	12,15
		13	27,30	15,16	X,Y	12	21,24
				30.2,33	6,8.3	8,10	15,18
TYWA7H	*Globalfiler*						
	2	15,17.3	16,25	11	15,18	11,12	8
		12	13	18,24	9,10	11,14	12,15
		13	27,30	15,16	X,Y	12	21,24
				30.2,33	6,8.3	8,10	15,18
TZKQFQ	*PowerPlex® Fusion*						
	2	15,17.3	16,25	11	15,18	11,12	8
		12	13	18,24	9,10	11,14	12,15
		13	27,30	15,16	X,Y	12	21,24
		12,13	7,12		6,8.3	8,10	15,18
UBZ39E	*Identifiler®*						
	2		16,25		15,18	11,12	8
		12			9,10	11,14	12,15
		13	27,30		X,Y	12	21,24
					6,8.3	8,10	15,18
UH44BU	*PowerPlex® Fusion 5C*						
	2	15,17.3	16,25	11,11	15,18	11,12	8,8
		12,12	13,13	18,24	9,10	11,14	12,15
		13,13	27,30	15,16	X,Y	12,12	21,24
		12,13	7,12		6,8.3	8,10	15,18

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TABLE 1

Item 2 - STR Results

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
UHMP4K	*PowerPlex® 16*					
2				15,18	11,12	8
	12			9,10	11,14	12,15
		27,30		X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
UJWUG9	*COfiler® and Profiler Plus®*					
2				15,18	11,12	8,8
	12,12			9,10	11,14	12,15
		27,30		X,Y	12,12	21,24
				6,8.3	8,10	15,18
URP8EM	*PowerPlex® Fusion*					
2	15,17.3	16,25	11,11	15,18	11,12	8,8
	12,12	13,13	18,24	9,10	11,14	12,15
	13,13	27,30	15,16	X,Y	12,12	21,24
	12,13	7,12		6,8.3	8,10	15,18
UTKQGN	*Identifiler®*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
VJANVN						
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
VN88Y8	*PowerPlex® 16*					
2				15,18	11,12	8,8
	12,12			9,10	11,14	12,15
		27,30		X,Y	12,12	21,24
	12,13	7,12		6,8.3	8,10	15,18
VY8XHU	*Identifiler® Plus*					
2		16,25		15,18	11,12	8,8
	12,12			9,10	11,14	12,15
	13,13	27,30		X,Y	12,12	21,24
				6,8.3	8,10	15,18
WBCD34	*GlobalFiler Express*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
			30.2,33	6,8.3	8,10	15,18
WRJC9L						
2	15,17.3	16,25	11,11	15,18	11,12	8,8
	12,12	13,13	18,24	9,10	11,14	12,15
	13,13	27,30	15,16	X,Y	12,12	21,24
			30.2,33	6,8.3	8,10	15,18

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TABLE 1

Item 2 - STR Results

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
WXQ2QU	*PowerPlex® Fusion*						
	2	15,17.3	16,25	11,11	15,18	11,12	8,8
		12,12	13,13	18,24	9,10	11,14	12,15
		13,13	27,30	15,16	X,Y	12,12	21,24
		12,13	7,12		6,8.3	8,10	15,18
WYYD7B	*Identifiler®*						
	2		16,25		15,18	11,12	8
		12			9,10	11,14	12,15
		13	27,30		X,Y	12	21,24
					6,8.3	8,10	15,18
XC6LPE	*GlobalFiler*						
	2	15,17.3	16,25	11	15,18	11,12	8
		12	13	18,24	9,10	11,14	12,15
		13	27,30	15,16	X,Y	12	21,24
				30.2,33	6,8.3	8,10	15,18
XDEMNA	*PowerPlex® 16*						
	2				15,18	11,12	8
		12			9,10	11,14	12,15
			27,30		X,Y	12	21,24
		12,13	7,12		6,8.3	8,10	15,18
XF6XLD	*GlobalFiler*						
	2	15,17.3	16,25	11	15,18	11,12	8
		12	13	18,24	9,10	11,14	12,15
		13	27,30	15,16	X,Y	12	21,24
				30.2,33	6,8.3	8,10	15,18
XHTDVL	*PowerPlex® Fusion*						
	2	15,17.3	16,25	11	15,18	11,12	8
		12	13	18,24	9,10	11,14	12,15
		13	27,30	15,16	X,Y	12	21,24
		12,13	7,12		6,8.3	8,10	15,18
XTCMJF	*PowerPlex® 16*						
	2				15,18	11,12	8
		12			9,10	11,14	12,15
			27,30		X,Y	12	21,24
		12,13	7,12		6,8.3	8,10	15,18
XULTYP	*AmpFlSTR NGM-SElect*						
	2	15,17.3	16,25	11,11	15,18		
		12,12	13,13	18,24		11,14	12,15
		13,13	27,30	15,16	X,Y		21,24
				30.2,33	6,8.3		15,18
Y2FKH3	*PowerPlex® 16 HS*						
	2				15,18	11,12	8,8
		12,12			9,10	11,14	12,15
			27,30		X,Y	12,12	21,24
		12,13	7,12		6,[8.3]	8,10	15,18

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TABLE 1

Item 2 - STR Results

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
Y3DUD7	*Identifiler® Plus*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
Y3UR4K	*GlobalFiler*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
			30.2,33	6,8.3	8,10	15,18
Y6XJXH	*PowerPlex® Fusion*					
2	15,17.3	16,25	11,11	15,18	11,12	8,8
	12,12	13,13	18,24	9,10	11,14	12,15
	13,13	27,30	15,16	X,Y	12,12	21,24
	12,13	7,12		6,8.3	8,10	15,18
YGCCQY	*PowerPlex® Fusion*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18
YLQCMQ	*Identifiler®*					
2		16,25		15,18	11,12	8
	12			9,10	11,14	12,15
	13	27,30		X,Y	12	21,24
				6,8.3	8,10	15,18
Z6EVE3	*PowerPlex® 16*					
2				15,18	11,12	8,8
	12,12			9,10	11,14	12,15
		27,30		X,Y	12,12	21,24
	12,13	7,12		6,8.3	8,10	15,18
Z6X2DT	*COfiler® and Profiler Plus® - Profiler® Plus*					
2				15,18	11,12	8,8
	12,12			9,10		12,15
		27,30		X,Y		21,24
						15,18
ZGEJEC	*PowerPlex® Fusion*					
2	15,17.3	16,25	11	15,18	11,12	8
	12	13	18,24	9,10	11,14	12,15
	13	27,30	15,16	X,Y	12	21,24
	12,13	7,12		6,8.3	8,10	15,18

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TABLE 1

Item 3 - STR Results

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
2F9QQN	*NGM SElect*						
	3	15,17.3	17,19	11,11	14,17		
		12,14	13,13	18,23		9,10	16,16
		14,15	28,30	11,16	X,Y		18,23
				16,18	6,8		17,19
2F9V4C	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
2FV3QW	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
2K6F8V	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
2LZXAW	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
2PJXPC	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
2QR7WC	*GlobalFiler and MiniFiler*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
2WW2FC	*PowerPlex® PP21*						
	3	15,17.3	17,19		14,17	11,12	7,9
		12,14		18,23	9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
3744CW	*COfiler® and Profiler Plus®*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

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TABLE 1

Item 3 - STR Results

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
37YLEX	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
38XP89	*GlobalFiler*						
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
3HVPKD	*PowerPlex® 16 HS*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
3QPYNG	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
3V3FKZ	*Globalfiler*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
3WG6NC	*GlobalFiler*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
3ZA7M7	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
3ZCWUN	*PowerPlex® Fusion 5C*						
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
4EQL4A	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19

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TABLE 1

Item 3 - STR Results

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
4FL46B	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
4G24MF	*GlobalFiler*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
4M3FKX	*PowerPlex® Fusion 6C*						
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12	16,18	6,8	8,11	17,19
4M8Z9Z	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
4P93WG	*PowerPlex® FUSION*						
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
4PBVR4	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
62VR78	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
68A8Z6	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
6KXAKH	*Globalfiler, NGM Select*						
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19

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TABLE 1

Item 3 - STR Results

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
6LQ3G2	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
6M263Z	*Globalfiler*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
6YE6YT	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
6YRYC9	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
72D3MQ	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
739LNR	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
76E4MN	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
779UT3	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
7B2UAJ	*PowerPlex®*						
	3	15,17.3	17,19		14,17	11,12	7,9
		12,14		18,23	9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19

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TABLE 1

Item 3 - STR Results

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
7XDRQQ	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
8BV4F7	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
8FPXD8	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
8LG6X2	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
8PZZY8	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
8UBDG7	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
8XTBBN	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
97JFFA	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
9C74CZ	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

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TABLE 1

Item 3 - STR Results

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
9Y2ZQ7							
	3	15,17.3	17,19	11,11	14,17		
		12,14	13,13	18,23		9,10	16,16
		14,15	28,30	11,16	X,Y		18,23
				16,18	6,8		17,19
A69TL2	*Globalfiler*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
ADZBV4	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
AMM8W6	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
B3UQ92	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
B44VLQ	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
B8QEP9	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
B9MQNH	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
BHMDHZ	*GlobalFiler*						
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19

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TABLE 1

Item 3 - STR Results

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
BHNBPP	*Identifiler® Plus*					
3		17,19		14,17	11,12	7,9
	12,14			9,11	9,10	16
	14,15	28,30		X,Y	10,12	18,23
				6,8	8,11	17,19
BL8B66	*PowerPlex® 16*					
3				14,17	11,12	7,9
	12,14			9,11	9,10	16
		28,30		X,Y	10,12	18,23
	11	7,12		6,8	8,11	17,19
BMH8EF	*Identifiler® Plus*					
3		17,19		14,17	11,12	7,9
	12,14			9,11	9,10	16,16
	14,15	28,30		X,Y	10,12	18,23
				6,8	8,11	17,19
BNCXJV	*PowerPlex® Fusion*					
3	15,17.3	17,19	11,11	14,17	11,12	7,9
	12,14	13,13	18,23	9,11	9,10	16,16
	14,15	28,30	11,16	X,Y	10,12	18,23
	11,11	7,12		6,8	8,11	17,19
BT7U9L	*PowerPlex® Fusion*					
3	15,17.3	17,19	11	14,17	11,12	7,9
	12,14	13	18,23	9,11	9,10	16
	14,15	28,30	11,16	X,Y	10,12	18,23
	11	7,12		6,8	8,11	17,19
C9TUDQ	*COfiler® and Profiler Plus®*					
3				14,17	11,12	7,9
	12,14			9,11	9,10	16,16
		28,30		X,Y	10,12	18,23
				6,8	8,11	17,19
C9XCBP	*GlobalFiler*					
3	15,17.3	17,19	11	14,17	11,12	7,9
	12,14	13	18,23	9,11	9,10	16
	14,15	28,30	11,16	X,Y	10,12	18,23
			16,18	6,8	8,11	17,19
CEJ2XK	*PowerPlex® Fusion*					
3	15,17.3	17,19	11	14,17	11,12	7,9
	12,14	13	18,23	9,11	9,10	16
	14,15	28,30	11,16	X,Y	10,12	18,23
	11	7,12		6,8	8,11	17,19
CGQJWF	*Identifiler®*					
3		17,19		14,17	11,12	7,9
	12,14			9,11	9,10	16
	14,15	28,30		X,Y	10,12	18,23
				6,8	8,11	17,19

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TABLE 1

Item 3 - STR Results

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
CLF297	*GlobalFiler*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
CV8EAQ	*GlobalFiler*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
CYQEP8	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
D3JVE7	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
D7NLLL	*COfiler® and Profiler Plus®*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
DA7L22	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
DCC7P2	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
DLZXDE	*PowerPlex® CS7-ESX, GlobalFiler*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12	16,18	6,8	8,11	17,19
DMUQ9X	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

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TABLE 1

Item 3 - STR Results

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
E9TCNU	*Identifiler®*					
3		17,19		14,17	11,12	7,9
	12,14			9,11	9,10	16
	14,15	28,30		X,Y	10,12	18,23
				6,8	8,11	17,19
ECPVRD	*Identifiler® Plus*					
3		17,19		14,17	11,12	7,9
	12,14			9,11	9,10	16,16
	14,15	28,30		X,Y	10,12	18,23
				6,8	8,11	17,19
EHG63C	*GlobalFiler*					
3	15,17.3	17,19	11	14,17	11,12	7,9
	12,14	13	18,23	9,11	9,10	16
	14,15	28,30	11,16	X,Y	10,12	18,23
			16,18	6,8	8,11	17,19
EPEUJF	*Identifiler®*					
3		17,19		14,17	11,12	7,9
	12,14			9,11	9,10	16
	14,15	28,30		X,Y	10,12	18,23
				6,8	8,11	17,19
EQ9KPV	*Identifiler®*					
3		17,19		14,17	11,12	7,9
	12,14			9,11	9,10	16
	14,15	28,30		X,Y	10,12	18,23
				6,8	8,11	17,19
EQPW8Z	*GlobalFiler*					
3	15,17.3	17,19	11,11	14,17	11,12	7,9
	12,14	13,13	18,23	9,11	9,10	16,16
	14,15	28,30	11,16	X,Y	10,12	18,23
			16,18	6,8	8,11	17,19
EY2VYQ	*Globalfiler*					
3	15,17.3	17,19	11	14,17	11,12	7,9
	12,14	13	18,23	9,11	9,10	16
	14,15	28,30	11,16	X,Y	10,12	18,23
			16,18	6,8	8,11	17,19
F9KPQD	*Globalfiler*					
3	15,17.3	17,19	11	14,17	11,12	7,9
	12,14	13	18,23	9,11	9,10	16
	14,15	28,30	11,16	X,Y	10,12	18,23
			16,18	6,8	8,11	17,19
FJHUF6	*PowerPlex® Fusion*					
3	15,17.3	17,19	11,11	14,17	11,12	7,9
	12,14	13,13	18,23	9,11	9,10	16,16
	14,15	28,30	11,16	X,Y	10,12	18,23
	11,11	7,12		6,8	8,11	17,19

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TABLE 1

Item 3 - STR Results

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
FJKJK2	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
GCYJ7A	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
GFYVZP	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
GG96Q2	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
GKCZA4	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
GL4RNV	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
H444UB	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
HFWPWZ	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
HG8L6B	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

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TABLE 1

Item 3 - STR Results

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
HKQLLQ	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
HLZTNJ	*PowerPlex® 16 HS*						
	3				[14],17	11,12	7,9
		12,14			9,11	9,10	16,16
			[28],30		X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
HMW4JM	*PowerPlex®*						
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
HPHT4Y	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
HV876M	*PowerPlex® FUSION*						
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
HVNGL8	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
HVNMXV	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
J6VJJD	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
J74TAP	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

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TABLE 1

Item 3 - STR Results

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
J7Q3LE	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
JCEPGK	*COfiler® and Profiler Plus®*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
JKLGNU	*GlobalFiler*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
JMQC6B	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
JR7MHF	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
K4TBT6	*NGM SElect*						
	3	15,17.3	17,19	11,11	14,17		
		12,14	13,13	18,23		9,10	16,16
		14,15	28,30	11,16	X,Y		18,23
				16,18	6,8		17,19
K7K6RU	*Identifiler® Plus, NGM SElect*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
K97WYQ	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
K9BDXP	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

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TABLE 1

Item 3 - STR Results

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
KCQ2CU	*PowerPlex® 16 HS*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
KPU6WN	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
KVY48E	*COfiler® and Profiler Plus®*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
KYH3MU	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
L2LDVH	*COfiler® and Profiler Plus®*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
LAWEFH	*Globalfiler*						
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
LVV3KJ	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
MDFUJH	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
MFHRTQ	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19

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TABLE 1

Item 3 - STR Results

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
MGF3NT	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
MU2CE6	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
MW9WYY	*PowerPlex® FUSION*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
MZ6JRM	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
N3U63P	*GlobalFiler*						
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
N4HLCW	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
N4JD9J	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
N8JLCU	*GlobalFiler*						
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
NANAU6	*Identifiler® Plus (+)*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

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TABLE 1

Item 3 - STR Results

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
NE2VZQ	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
NGU26N	*PowerPlex®*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
NLFZCN	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
NMGVZZ	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
NRUG7L	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
NV6N8Q	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
NVRXK2	*IDPlex Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
P9CWP9	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
PEHQJ4	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

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TABLE 1

Item 3 - STR Results

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
PRLU7J	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
PTXNQQ	*PowerPlex® 16 HS*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
PXRQQJ	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
Q327XM	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
QQACPY	*PowerPlex® Fusion, GlobalFiler™*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12	16,18	6,8	8,11	17,19
QR43VD	*Globalfiler*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
QUBKTA	*COfiler® and Profiler Plus®*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
QVFBWH	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
QYFGDA	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

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TABLE 1

Item 3 - STR Results

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
R6LA86	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
R7FZDJ	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
RRXBG3	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
RZQKMR	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
TAQQVJ	*GlobalFiler*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
TCFY2E	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
TRV6BT	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
TT8YUY	*SURE ID*						
	3	15,17.3	17,19		14,17	11,12	7,9
		12,14		18,23	9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
TXKK2K	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19

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TABLE 1

Item 3 - STR Results

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
TXY7D8	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
TYWA7H	*Globalfiler, MiniFiler*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
TZKQFQ	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
UBZ39E	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
UH44BU	*PowerPlex® Fusion 5C*						
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
UHMP4K	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
UJWUG9	*COfiler® and Profiler Plus®*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
URP8EM	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
UTKQGN	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

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TABLE 1

Item 3 - STR Results

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
VN88Y8	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
VY8XHU	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
WBCD34	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
WRJC9L							
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
WXQ2QU	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
WYYD7B	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
XC6LPE	*GlobalFiler, MiniFiler*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
XDEMNA	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
XF6XLD	*GlobalFiler, MiniFiler*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19

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TABLE 1

Item 3 - STR Results

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
XHTDVL	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
XTCMJF	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
XULTYP	*AmpFISTR NGM-SElect*						
	3	15,17.3	17,19	11,11	14,17		
		12,14	13,13	18,23		9,10	16,16
		14,15	28,30	11,16	X,Y		18,23
				16,18	6,8		17,19
Y2FKH3	*PowerPlex® 16 HS*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
Y3DUD7	*Identifiler® Plus*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
Y3UR4K	*GlobalFiler*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
Y6XJXH	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
YGCCQY	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
YLQCMQ	*Identifiler®*						
	3		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

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TABLE 1

Item 3 - STR Results

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
Z6EVE3	*PowerPlex® 16*						
	3				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
Z6X2DT	*COfiler® and Profiler Plus® - Profiler® Plus*						
	3				14,17	11,12	7,9
		12,14			9,11		16,16
			28,30		X,Y		18,23
							17,19
ZGEJEC	*PowerPlex® Fusion*						
	3	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19

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TABLE 1

Item 3e - STR Results

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
4TCWW8	*GlobalFiler*						
	3e	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
62WMUJ	*Identifiler® Plus*						
	3e		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

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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

4TCWW8 *GlobalFiler*

3sp

62WMUJ *Identifiler® Plus*

3sp

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TABLE 1

Item 4 - STR Results

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
2F9QQN	*NGM SElect*						
	4	15,15.3,16,17	17,19,23,24	10,11,11.3	14,17		
		12,14	13,14,15	15,18,23		9,10,11,13	14,16,17
		13,14,15	28,30,31	11,15,16	X,Y		18,21,23,26
				13,16,17,18	6,8,9.3		14,17,18,19
9Y2ZQ7							
	4	[15],15.3,16	[17],[22],23,24	10,[11],11.3	14,17		
		12,14	[13],14,15	15,[18],23		[9],[10],11,13	14,[16],[18]
		13,14	28,[30],[31]	15,16	X,[Y]		[18],[20],21,[23],26
				[12],13,[16],17,[18]	6,[8],9.3		14,[17],18,[19]
EHG63C	*GlobalFiler*						
	4	15,15.3,16,17.3	17,19,23,24	10,11,11.3	14,17	11,12	7,8,9,10
		12,14	13,14,15	15,18,23	8,9,11	9,10,11,13	14,16,17
		13,14,15	28,30,31	11,15,16	X,X	10,11,12	18,21,23,26
				13,16,17,18	6,8,9.3	8,11	14,17,18,19
H444UB	*Identifiler® Plus*						
	4		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
K4TBT6	*NGM SElect*						
	4	[15],15.3,16,[17.3]	[17],[19],23,24	10,[11],11.3	14,17		
		12,14	[13],14,15	15,[18],23		[9],[10],11,13	14,[16],17
		13,14,[15]	28,[30],31	[11],15,16	X,[Y]		[18],21,[23],26
				13,[16],17,[18]	6,[8],9.3		14,[17],18,[19]
Z6X2DT	*COfiler® and Profiler Plus® - Profiler® Plus*						
	4				14,17	11,12	7,9
		12,14			9,11		16,16
			28,30		X,Y		18,23
							17,19

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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

NANAU6	*Identifiler® Plus (+)*					
	4BN		17,19,23,24	14,17	11,12	7,8,9,10
		12,14		8,9,11	9,10,11,13	14,16,17
		13,14,15	28,30,31	X,Y	10,11,12	18,21,23,26
				6,8,9.3	8,11	14,17,18,19

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TABLE 1

Item 4e - STR Results

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
2F9V4C	*PowerPlex® 16*						
	4e				14,17	11,12	7,8,9,10
		12,14			8,9,11	9,10,11,13	14,16,17
			28,30,31		X,Y	10,11,12	18,21,23,26
		9,11,12	7,11,12,18		6,8,9.3	8,11	14,17,18,19
2FV3QW	*Identifiler® Plus*						
	4e		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11	21,26
					6,9.3	8,11	14,18
2K6F8V	*PowerPlex® Fusion*						
	4e	15,15.3,16,17.3	19,23,24	10,11,11.3	14,17	12	8,9,10
		12,14	13,14,15	15,18,23	8,9,11	9,11,13	14,16,17
		13,14,15	28,31	15,16	X,Y	11	18,21,23,26
		9,12	11,18		6,8,9.3	8,11	14,18,19
2LZXAW	*Identifiler® Plus*						
	4e		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11	21,26
					6,9.3	8,11	14,18
2PJXPC	*PowerPlex® 16*						
	4e				14,17	12	8,10
		12,14			8,11	11,13	14,16,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,17,18
2QR7WC	*GlobalFiler*						
	4e	14.3,15,15.3,16,Q	22,23,24,Q	10,11,11.3,Q	13,14,16,17,Q	11,12,Q	7,8,9,10,Q
		11,12,13,14,Q	13,14,15,Q	14,15,22,23,Q	8,10,11,Q	9,10,11,13,Q	13,14,16,17,Q
		12,13,14,Q	27,28,30,31,Q	11,14,15,16,Q	X,Y	10,11,Q	20,21,23,25,26,Q
				12,13,16,17,Q	6,8,9.3,Q	8,11,Q	14,17,18,Q
2WW2FC	*PowerPlex® PP21*						
	4e	15,15.3,16,17.3	17,19,23,24		14,17	10,12	7,8,9,10
		12,14		15,18,23	8,9,11	9,10,11,13	14,16,17
		13,14,15	28,30,31		X,Y	11,11	18,21,23,26
		9,11,12	7,11,12,18		6,8,9.3	8,11	14,17,18,19
3744CW	*COfiler® and Profiler Plus®*						
	4e				14,17	12,12	8,[9],10
		12,14			8,[9],11	[9],[10],11,13	14,[16],17
			28,[30],31		X,X,[Y]	11,11,[12]	[18],21,[23],26
					6,[8],9.3	8,11	14,[17],18,[19]

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TABLE 1

Item 4e - STR Results

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
37YLEX	*Identifiler® Plus*						
	4e		23,24		14,17	12	8,[9],10
		12,14			8,[9],11	[10],11,13	14,[16],17
		13,14	28,[30],31		X	11	21,26
					6,9.3	8,11	14,18
38XP89	*GlobalFiler*						
	4e	14.3,15,15.3,16,17.3,Q	17,19,22,23,24,Q	10,11,11.3,Q	13,14,16,17,Q	11,12,Q	7,8,9,10,Q
		11,12,13,14,Q	13,14,15,Q	14,15,22,23,Q	8,9,10,11,Q	10,11,12,13,Q	13,14,16,17,Q
		12,13,14,Q	27,28,30,31,Q	14,15,16,Q	X,Y	10,11,12,Q	20,21,23,25,26,Q
				12,13,16,17,18,Q	6,9.3,Q	8,11,Q	14,17,18,19,Q
3HVPKD	*PowerPlex® 16 HS*						
	4e				14,17	12	8,10
		12,14			8,9,11	10,11,13	14,17
			28,31		X,Y	11	21,26
		9,12	11,18		6,9.3	8,11	14,18,19
3QPYNG	*PowerPlex® Fusion*						
	4e	15.3,16,17.3	17,19,23,24	10,11,11.3	14,17	12	8,10
		12,14	13,14,15	15,18,23	8,11	9,11,13	14,16,17
		13,14,15	28,30,31	15,16	X,Y	11,12	18,21,23,26
		9,11,12	7,11,12,18		6,8,9.3	8,11	14,18,19
3V3FKZ	*Globalfiler*						
	4e	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
3WG6NC	*GlobalFiler*						
	4e	15,15.3,16,17.3	17,19,23,24	10,11,11.3	14,17	11,12	7,8,9,10
		12,14	13,14,15	15,18,23	8,9,11	9,10,11,13	14,16,17
		13,14,15	28,30,31	11,15,16	X,Y	10,11,12	18,21,23,26
				13,16,17,18	6,8,9.3	8,11,Q	14,17,18,19
3ZA7M7	*Identifiler®*						
	4e		23,24		14,17	11,12	7,8,10
		12,14			8,11	11,13	14,16,17
		13,14	28,30,31		X	11	21,26
					6,9.3	8,11	14,17,18
3ZCWUN	*PowerPlex® Fusion 5C*						
	4e	15.3,16	19,23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,9,11	10,11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,11,12	7,11,12,18		6,9.3	8,11	14,18

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TABLE 1

Item 4e - STR Results

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
4EQL4A	*PowerPlex® 16*						
	4e				14,17	12	7,8,10
		12,14			8,11	9,11,13	14,16,17
			28,30,31		X,X	11	18,21,26
		9,12	11,18		6,9.3	8,11	14,18
4FL46B	*PowerPlex® 16*						
	4e				14,17	11,12	8,9,10
		12,14			8,9,11	10,11,13	14,16,17
			28,30,31		X,X	11	21,26
		9,11,12	11,18		6,8,9.3	8,11	14,17,18
4G24MF	*GlobalFiler*						
	4e	15,15.3,16,17.3	17,19,23,24	10,11,11.3	14,17	11,12	7,8,9,10
		12,14	13,14,15	15,18,23	8,9,11	9,11,13	14,16,17
		13,14	28,30,31	11,15,16	X,Y	10,11	18,21,23,26
				13,17,18	6,9.3	8,11	14,17,18,19
4M3FKX	*PowerPlex® Fusion 6C*						
	4e	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	[9],[10],11,13	14,[16],17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18	13,17	6,9.3	8,11	14,18
4M8Z9Z	*Identifiler®*						
	4e		[17],[19],23,24		14,17	12	8,10
		12,14			8,[9],11	[9],11,13	14,[16],17
		13,14	28,[30],31		X,[Y]	11	21,26
					6,[8],9.3	8,11	14,18,[19]
4P93WG	*PowerPlex® FUSION*						
	4e	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,(16),17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
4PBVR4	*Identifiler®*						
	4e		23,24		14,17	11,12	8,10
		12,14			8,11	11,13	14,16,17
		13,14	28,30,31		X	11	21,26
					6,9.3	8,11	14,18
4TCWW8	*GlobalFiler*						
	4e	15,15.3,16,17.3	17,19,23,24	10,11,11.3	14,16,17	11,12	7,8,9,10
		11,12,13,14,Q	13,14,15	14,15,18,22,23	8,9,11	9,10,11,12,13	14,15,16,17
		13,14,15	27,28,30,31,Q	11,14,15,16	X,Y	10,11,12	18,21,23,26
				13,16,17,18	6,8,9.3	8,11,Q	14,17,18,19

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TABLE 1

Item 4e - STR Results

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
62VR78	*PowerPlex® 16*						
	4e				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
62WMUJ	*Identifiler® Plus*						
	4e		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
68A8Z6	*Identifiler® Plus*						
	4e		[17],[19],23,24		14,17	12,12	8,[9],10
		12,14			8,[9],11	[9],11,13	14,[16],17
		13,14,[15]	28,[30],31		X,X,[Y]	11,11,[12]	[18],21,[23],26
					6,[8],9.3	8,11	14,[17],18
6KXAKH	*NGM Select*						
	4e	15.3,16	23,24	10,11.3	14,17		
		12,14	14,15	15,23		11,13	14,17
		13,14	28,31	15,16	X,X		21,26
				13,17	6,9.3		14,18
6LQ3G2	*PowerPlex® Fusion*						
	4e	15,15.3,16,17.3	17,23,24	10,11.3	14,17	11,12	7,8,9,10
		12,14	14,15	15,23	8,11	11,13	14,16,17
		13,14	28,30,31	15,16	X,X	11,11	18,21,23,26
		9,11,12	11,12,18		6,9.3	8,11	14,17,18
6M263Z	*Globalfiler*						
	4e	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
6YE6YT	*Identifiler® Plus*						
	4e		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11	21,26
					6,9.3	8,11	14,18
6YRYC9	*PowerPlex® 16*						
	4e				14,17	12	8,10
		12,14			8,11,[@]	11,13,[@]	14,17,[@]
			28,[30],31		X,X	11,[@]	21,26,[@]
		9,12	11,18		6,9.3,[@]	8,11	14,18,[@]
72D3MQ	*PowerPlex® Fusion*						
	4e	15,15.3,16,17.3	17,19,23,24	10,11,11.3	14,17	11,12	7,8,9,10
		12,14	13,14,15	15,18,23	8,9,11	9,10,11,13	14,16,17
		13,14,15	28,30,31	11,15,16	X,Y	10,11,12	18,21,23,26
		9,11,12	7,11,12,18		6,8,9.3	8,11	14,17,18,19

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Item 4e - STR Results

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
739LNR	*Identifiler® Plus*						
	4e		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11	21,26
					6,9.3	8,11	14,18
76E4MN	*Identifiler® Plus*						
	4e		17,19,23,24		14,17	11,12	7,8,9,10
		12,14			8,9,11	9,10,11,13	14,16,17
		13,14,15	28,30,31		X,Y	10,11,12	18,21,23,26
					6,8,9.3	8,11	14,17,18,19
779UT3	*Identifiler®*						
	4e		23,24		14,17	11,12	8,10
		12,14			8,11	11,13	14,16,17
		13,14	28,30,31		X	11	21,26
					6,9.3	8,11	14,18
7B2UAJ	*PowerPlex®*						
	4e	15.3,16	23,24		14,17	12	8,10
		12,14		15,23	8,11	11,13	14,17
		13,14	28,31		X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
7XDRQQ	*PowerPlex® Fusion*						
	4e	15,15.3,16	17,23,24	10,11,11.3	14,17	12	7,8,10
		12,14	13,14,15	15,23	8,9,11	9,10,11,13	14,16,17
		13,14	28,30,31	15,16	X,Y	10,11,12	18,21,23,26
		9,11,12	7,11,18		6,9.3	8,11	14,17,18,19
8BV4F7	*PowerPlex® 16*						
	4e				14,17	12	8,10
		12,14			8,11	10,11,13	14,16,17
			28,31		X,X	11	21,26
		9,12	11,12,18		6,9.3	8,11	14,18
8FPXD8	*PowerPlex® 16*						
	4e				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,30,31		X,Y	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
8LG6X2	*Identifiler®*						
	4e		23,24		14,17	11,12	7,8,10
		12,14			8,9,11	9,11,13	14,16,17
		13,14,15	28,30,31		X,Y	11,12	18,21,23,26
					6,8,9.3	8,11	14,18
8PZZY8	*PowerPlex® 16*						
	4e				14,17	12	8,10
		12,14			8,9,11	9,11,13	14,16,17
			28,30,31		X,Y	11	18,21,23,26
		9,11,12	11,18		6,8,9.3	8,11	14,18

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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
8UBDG7	*PowerPlex® 16*						
	4e				14,17	[11],12	[7],8,[9],10
		12,14			8,[9],11	[9],[10],11,13	14,16,17
			28,[30],31		X,[Y]	[10],11,[12]	[18],21,[23],26
		9,[11],12	[7],11,[12],18		6,[8],9.3	8,11	14,[17],18,[19]
8XTBBN	*Identifiler®*						
	4e		[17],[19],23,24		14,17	11,[12]	[7],8,[9],10
		12,14			8,[9],11	[9],11,13	14,[16],17
		13,14,[15]	28,[30],31		X,[Y]	11,[12]	[18],21,[23],26
					6,9.3	8,11	14,[17],18,[19]
97JFFA	*Identifiler®*						
	4e		[17],23,24		14,17	12	[7],8,[9],10
		12,14			8,[9],11	11,13	14,[16],17
		13,14	28,[30],31		X	11	[18],21,26
					6,9.3	8,11	14,[17],18,[19]
9C74CZ	*Identifiler®*						
	4e		23,24		14,17	11,12	8,9,10
		12,14			8,9,11	11,13	14,16,17
		13,14	28,30,31		X	11,12	21,26
					6,8,9.3	8,11	14,18
A69TL2	*Globalfiler*						
	4e	14.3,15,15.3,16,17.3,Q	17,19,22,23,24	10,11,11.3,Q	13,14,16,17,Q	10,11,12,Q	7,8,9,10
		11,12,13,14,Q	13,14,15,Q	14,15,22,23,Q	7,8,9,10,11,Q	9,10,11,12,13,Q	13,14,16,17,Q
		12,13,14,Q	27,28,30,31,Q	11,14,15,16,Q	X,Y	10,11,12,Q	18,21,23,26
				13,16,17,18	6,9.3,Q	8,11,Q	13,14,17,18,19,Q
ADZBV4	*PowerPlex® 16*						
	4e				14,17	[11],12	[7],8,[9],10
		12,14			8,11	11,13[@]	14,17,[@]
			28,31		X,X	11,[@]	21,26,[@]
		9,12,[@]	11,18		6,9.3,[@]	8,11	14,[17],18,[19]
AMM8W6	*Identifiler® Plus*						
	4e		[17],[19],23,24		14,17	[11],12	8,10
		12,14			8,[9],11	[10],11,13	14,[16],17
		13,14,[15]	28,[30],31		X,[Y]	11,[12]	21,[23],26
					6,[8],9.3	8,11	14,18
B3UQ92	*PowerPlex® 16*						
	4e				14,17	11,12	7,8,9,10
		12,14			8,9,11	9,10,11,13	14,16,17
			28,30,31		X,Y	10,11,12	18,21,23,26
		9,11,12	7,11,12,18		6,8,9.3	8,11	14,17,18,19

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Item 4e - STR Results

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
B44VLQ	*PowerPlex® Fusion*					
4e	15,15.3,16,17.3	17,19,23,24	10,11,11.3	14,17	11,12	7,8,9,10
	12,14	13,14,15	15,18,23	8,9,11	9,10,11,13	14,16,17
	13,14,15	28,30,31	11,15,16	X,Y	10,11,12	18,21,23,26
	9,11,12	7,11,12,18		6,8,9.3	8,11	14,17,18,19
B8QEP9	*PowerPlex® Fusion*					
4e	15.3,16	17,19,23,24	10,11,11.3	14,17	12	8,10
	12,14	14,15	15,23	8,9,11	9,11,13	14,17
	13,14	28,31	15,16	X	11	21,26
	9,12	11,18		6,8,9.3	8,11	14,18,19
B9MQNH	*Identifiler® Plus*					
4e		[19],23,24		14,17	12,12	8,10
	12,14			8,[9],11	[9],11,13	14,[16],17
	13,14	28,31		X,X	11,11	21,26
				6,9.3	8,11	14,18
BHMDHZ	*GlobalFiler*					
4e	14.3,15,15.3,16,Q	19,22,23,24,Q	9,10,11,11.3,Q	13,14,16,17,Q	11,12,Q	7,8,9,10,Q
	11,12,13,14,Q	13,14,15,Q	14,15,22,23,Q	8,9,10,11,Q	9,10,11,12,13,Q	13,14,16,17,Q
	12,13,14,Q	27,28,30,31,Q	11,14,15,16,Q	X,Y	10,11,Q	20,21,23,25,26,Q
			12,13,16,17,Q	6,9.3,Q	8,11,Q	13,14,17,18,19,Q
BHNBPP	*Identifiler® Plus*					
4e		[17],[19],23,24		14,17	[11],12	8,[9],10
	12,14			8,[9],11	[10],11,13	14,(16),17
	13,14,[15]	28,[30],31		X	[10],11,[12]	21,[23],26
				6,[8],9.3	8,11	14,[17],18,[19]
BL8B66	*PowerPlex® 16*					
4e				14,17	12	8,10
	12,14			8,11	11,13	14,17
		28,31		X,X	11	18,21,23,26
	9,11,12	11,12,18		6,8,9.3	8,11	14,18
BMH8EF	*Identifiler® Plus*					
4e		17,19,23,24		14,17	11,12	7,8,9,10
	12,14			8,9,11	9,10,11,13	14,16,17
	13,14,15	28,30,31		X,Y	10,11,12	18,21,23,26
				6,8,9.3	8,11	14,17,18,19
BNCXJV	*PowerPlex® Fusion*					
4e	15,15.3,16	17,19,23,24	10,11.3	14,17	11,12	8,10
	12,14	13,14,15	15,18,23	8,11	10,11,12,13	14,16,17
	13,14	28,30,31	15,16	X,Y	11,11	21,23,25,26
	9,12	11,18		6,8,9.3	8,11	14,17,18,19

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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
BT7U9L	*PowerPlex® Fusion*					
4e	15,15.3,16,17.3	17,19,23,24	10,11,11.3	14,17	12	7,8,9,10
	12,14	13,14,15	15,18,23	8,9,11	9,10,11,13	14,16,17
	13,14,15	28,30,31	11,15,16	X,Y	10,11,12	18,21,23,26
	9,11,12	7,11,12,18		6,8,9.3	8,11	14,17,18,19
C9TUDQ	*COfiler® and Profiler Plus®*					
4e				14,17	12,12	8,[9],10
	12,14			8,[9],11	11,13	14,[16],17
		28,[30],31		X,X,[Y]	11,11	[18],21,[23],26
				6,9.3	8,11	14,18
C9XCBP	*GlobalFiler*					
4e	15.3,16	23,24	10,[11],11.3	14,17	[11],12	8,10
	12,14	[13],14,15	15,23	8,11	11,13	14,[16],17
	13,14	28,31	15,16	X	11	[18],21,26
			13,[16],17	6,9.3	8,11	14,18
CEJ2XK	*PowerPlex® Fusion*					
4e	15.3,16	23,24	10,11.3	14,17	11,12	8,9,10
	12,14	13,14,15	15,23	8,11	11,13	14,16,17
	13,14	28,30,31	11,15,16	X	10,11	18,21,26
	9,11,12	11,18		6,9.3	8,11	14,18
CGQJWF	*Identifiler®*					
4e		23,24		14,17	12	8,10
	12,14			8,11	11,13	14,17
	13,14	28,31		X	11	21,26
				6,9.3	8,11	14,18
CLF297	*GlobalFiler*					
4e	15.3,16,17.3	17,19,23,24	10,11,11.3	14,17	11,12	7,8,9,10
	12,14	13,14,15	15,23	8,9,11	10,11,13	14,16,17
	13,14,15	28,31	11,15,16	X,Y	10,11	18,21,23,26
			13,17,18	6,9.3	8,11	14,17,18,19
CV8EAQ	*GlobalFiler*					
4e	15.3,16	23,24	10,11.3	14,17	12	8,10
	12,14	14,15	15,23	8,11	11,13	14,17
	13,14	28,31	15,16	X	11	21,26
			13,17	6,9.3	8,11	14,18
CYQEP8	*Identifiler®*					
4e		[19],23,24		14,17	[11],12	[7],8,[9],10
	12,14			8,[9],11	[9],[10],11,13	14,[16],17
	13,14,[15]	28,[30],31		X	11,[12]	[18],21,26
				6,9.3	8,11	14,18,[19]
D3JVE7	*PowerPlex® Fusion*					
4e	15,15.3,16,17.3	17,19,23,24	10,11,11.3	14,17	12	8,10
	12,14	13,14,15	15,18,23	8,9,11	9,11,13	14,16,17
	13,14,15	28,30,31	11,15,16	X,Y	11,12	18,21,23,26
	9,11,12	7,11,12,18		6,8,9.3	8,11	14,18,19

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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
D7NLLL	*COfiler® and Profiler Plus®*					
4e				14,17	12,12	8,[9],10
	12,14			8,[9],11	[9],[10],11,13	14,[16],17
		28,[30],31		X,X,[Y]	11,11,[12]	[18],21,26
				6,[8],9.3	8,11	14,[17],18
DA7L22	*Identifiler® Plus*					
4e		[17],23,24		14,17	12	8,[9],10
	12,14			8,11	[9],11,13	14,17
	13,14	28,[30],31		X	11,[12]	21,[23],26
				6,[8],9.3	8,11	14,18,[19]
DCC7P2	*PowerPlex® 16*					
4e				14,17	12	8,10
	12,14			8,11	11,13	14,17
		28,30,31		X,X	11	21,26
	9,12	11,18		6,9.3	8,11	14,18
DLZXDE	*PowerPlex® CS7-ESX, GlobalFiler*					
4e	15.3,16	23,24	10,11.3	14,17	12	8,10
	12,14	14,15	15,23	8,11	11,13	14,17
	13,14	28,31	15,16	X	11	21,26
	9,12	11,18	13,17	6,9.3	8,11	14,18
DMUQ9X	*Identifiler®*					
4e		17,23,24		14,17	11,12	7,8,9,10
	12,14			8,11	11,13	14,16,17
	13,14	28,30,31		X	11	21,26
				6,9.3	8,11	14,18,19
E9TCNU	*Identifiler®*					
4e		17,23,24		14,17	11,12	7,8,10
	12,14			8,9,11	10,11,13	14,16,17
	13,14	28,30,31		X,Y	11	18,21,26
				6,8,9.3	8,11	14,17,18
ECPVRD						
4e		17,19,23,24		14,17	11,12	7,8,9,10
	12,14			8,9,11	9,10,11,13	14,16,17
	13,14	28,30,31		X,X	10,11	18,21,23,26
				6,8,9.3	8,11	14,17,18
EPEUJF	*Identifiler®*					
4e		23,24		14,17	12	8,10
	12,14			8,11	11,13	14,17
	13,14	28,31		X	11	21,26
				6,9.3	8,11	14,18
EQ9KPV	*Identifiler®*					
4e		23,24		14,17	11,12	8,10
	12,14			8,11	11,13	14,16,17
	13,14	28,30,31		X	11	21,26
				6,9.3	8,11	14,17,18

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TABLE 1

Item 4e - STR Results

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
EQPW8Z	*GlobalFiler*						
	4e	15,15.3,16,Q	17,22,23,24,Q	10,11.3,Q	14,17,Q	11,12,Q	8,9,10,Q
		12,13,14,Q	13,14,15,Q	15,22,23,Q	8,11,Q	11,13,Q	14,16,17,Q
		13,14,Q	28,30,31,Q	15,16,Q	X	10,11,Q	21,26,Q
				13,16,17,18,Q	6,9.3,Q	8,11,Q	14,17,18,Q
EY2VYQ	*Globalfiler*						
	4e	[15],15.3,16	[17],23,24	10,[11],11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,[30],31	15,16	X,[Y]	11	[18],21,26
				13,17,[18]	6,9.3	8,11	14,18,[19]
F9KPQD	*Globalfiler*						
	4e	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
FJHUF6	*PowerPlex®*						
	4e	[15],15.3,16,[17.3]	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,[18],23	8,11	11,13	14,17
		13,14	28,[30],31	15,16	X,X,[Y]	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
FJKJK2	*Identifiler®*						
	4e		[17],23,24		14,17	12	8,10
		12,14			8,[9],11	[9],11,13	14,[16],17
		13,14	28,[30],31		X,[Y]	11,[12]	21,[23],26
					6,[8],9.3	8,11	14,[17],18,[19]
GCYJ7A	*Identifiler® Plus*						
	4e		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11	21,26
					6,9.3	8,11	14,18
GFYVZP	*PowerPlex® Fusion*						
	4e	15.3,16	19,23,24	10,11.3	14,17	11,12	8,9,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,30,31	15,16	X,X	11,11	21,23,26
		9,12	11,18		6,9.3	8,11	14,18
GG96Q2	*Identifiler®*						
	4e		[17],[19],23,24		14,17	[11],12	[7],8,[9],10
		12,14			8,[9],11	[9],[10],11,13	14,[16],17
		13,14,[15]	28,[30],31		X,[Y]	[10],11,[12]	[18],21,[23],26
					6,[8],9.3	8,11	14,[17],18
GKCZA4	*PowerPlex® Fusion*						
	4e	[15],15.3,16	[17],[19],23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	[9],11,13	14,[16],17
		13,14	28,31	15,16	X,X	[10],11,11	21,26
		9,12	11,18		6,[8],9.3	8,11	14,18,[19]

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TABLE 1

Item 4e - STR Results

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
GL4RNV	*Identifiler®*						
	4e		[17],[19],23,24		14,17	[11],12,12	7,8,9,10
		12,14			8,9,11	9,10,11,13	14,16,17
		13,14,[15]	28,30,31		X,X,[Y]	10,11,11,12	18,21,23,26
					6,[8],9.3	8,11	14,17,18,19
HFWPWZ	*Identifiler®*						
	4e		[17],[19],23,24		14,17	[11],12	8,10
		12,14			8,[9],11	[9],[10],11,13	14,[16],17
		13,14,[15]	28,[30],31		X,[Y]	11,[12]	[18],21,[23],26
					6,[8],9.3	8,11	14,[17],18,[19]
HG8L6B	*Identifiler®*						
	4e		[17],[19],23,24		14,17	[11],12	[7],8,10
		12,14			8,[9],11	[9],[10],11,13	14,[16],17
		13,14,[15]	28,[30],31		X,[Y]	11,[12]	[18],21,[23],26
					6,[8],9.3	8,11	14,[17],18,[19]
HKQLLQ	*Identifiler®*						
	4e		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,[Y]	11	21,26
					6,9.3	8,11	14,18
HLZTNJ	*PowerPlex® 16 HS*						
	4e				14,17	12,12	[7],8,10
		[12],14			8,11	[10],11,13	14,17
			28,31		X,X	[10],11	[18],21,[23],26
		9,12	[7],11,18		6,9.3	8,11	14,[17],18,[19]
HMW4JM	*PowerPlex®*						
	4e	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
HPHT4Y	*Identifiler®*						
	4e		[17],23,24		14,17	[11],12	[7],8,10
		12,14			8,[9],11	[10],11,13	14,17
		13,14,[15]	28,[30],31		X,[Y]	11,[12]	21,[23],26
					6,[8],9.3	8,11	14,18,[19]
HV876M	*PowerPlex® FUSION*						
	4e	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18

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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
HVNGL8	*Identifiler® Plus*						
	4e		17,19,23,24		14,17	12	8,10
		12,14			8,9,11	9,11,13	14,16,17
		13,14,15	28,30,31		X,Y	11,12	18,21,23,26
					6,8,9.3	8,11	14,17,18,19
HVNMXV	*PowerPlex® 16*						
	4e				14,17	11,12	8,10
		12,14			8,9,11	11,13	14,16,17
			28,30,31		X,X	11	21,26
		9,11,12	7,11,12,18		6,8,9.3	8,11	14,18
J6VJJD	*PowerPlex® Fusion*						
	4e	15,15.3,16,17.3	17,19,23,24	10,11,11.3	14,17	12	7,8,9,10
		12,14	13,14,15	15,18,23	8,9,11	9,10,11,13	14,16,17
		13,14,15	28,30,31	11,15,16	X,Y	10,11,12	18,21,23,26
		9,11,12	7,11,12,18		6,8,9.3	8,11	14,17,18,19
J74TAP	*Identifiler®*						
	4e		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
J7Q3LE	*Identifiler® Plus*						
	4e		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11	21,26
					6,9.3	8,11	14,18
JCEPGK	*COfiler® and Profiler Plus®*						
	4e				14,17	12,12	8,[9],10
		12,14			8,11	11,13	14,17
			28,31		X,X,[Y]	11,11	21,26
					6,9.3	8,11	14,18
JKLGNU	*GlobalFiler*						
	4e	14.3,15,15.3,16,Q	17,19,23,24	9,10,11,11.3,Q	13,14,16,17,Q	10,11,12,Q	7,8,9,10,Q
		11,12,13,14,Q	13,14,15,Q	14,15,18,22,23,Q	7,8,10,11,Q	9,10,11,12,13,Q	13,14,16,17,Q
		12,13,14,15,Q	27,28,30,31,Q	11,14,15,16,Q	X,Y	10,11,Q	18,20,21,23,25,26,Q
				13,15,16,17,18	6,9.3,Q	8,10,11,Q	13,14,17,18,19,Q
JMQC6B	*Identifiler®*						
	4e		23,24		14,17	[11],12	[7],8,[9],10
		12,14			8,[9],11	[10],11,13	14,[16],17
		13,14	28,[30],31		X,[Y]	11,[12]	[18],21,26
					6,9.3	8,11	14,[17],18

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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
JR7MHF	*Identifiler® Plus*					
4e		23,24		14,17	12	8,10
	12,14			8,11	11,13	14,17
	13,14	28,31		X,X	11	21,26
				6,9.3	8,11	14,18
K7K6RU	*Identifiler® Plus, NGM SElect*					
4e		[17],[19],23,24		14,17	12	8,[9],10
	12,14			8,[9],11	[9],11,13	14,[16],17
	13,14	28,[30],31		X,[Y]	11	21,26
				6,9.3	8,11	14,18,[19]
K97WYQ	*Identifiler®*					
4e		23,24		14,17	11,12	8,10
	12,14			8,9,11	11,13	14,17
	13,14	28,31		X	11	21,26
				6,9.3	8,11	14,18
K9BDXP	*Identifiler® Plus*					
4e		[17],[19],23,24		14,17	12,12	8,[9],10
	12,14			8,[9],11	[9],11,13	14,[16],17
	13,14,[15]	28,[30],31		X,X,[Y]	11,[12]	[18],21,[23],26
				6,[8],9.3	8,11	14,[17],18
KCQ2CU	*PowerPlex® 16 HS*					
4e				14,17	12	8,10
	12,14			8,11	9,11,13	14,16,17
		28,30,31		X	11,12	21,23,26
	9,12	7,11,18		6,8,9.3	8,11	14,17,18
KPU6WN	*Identifiler® Plus*					
4e		[17],[19],23,24		14,17	[11],12,12	[7],8,[9],10
	12,14			8,[9],11	[9],11,13	14,[16],17
	13,14,[15]	28,[30],31		X,X,[Y]	11,11,[12]	[18],21,[23],26
				6,[8],9.3	8,11	14,18,[19]
KVY48E	*COfiler® and Profiler Plus®*					
4e				14,17	12	8,10
	12,14			8,[9],11	[9],11,13	14,[16],17
		28,[30],31		X,[Y]	11,[12]	21,[23],26
				6,[8],9.3	8,11	14,18,[19]
KYH3MU	*Identifiler® Plus*					
4e		[17],[19],23,24		14,17	[11],12	[7],8,10
	12,14			8,11	[9],[10],11,13	14,[16],17
	13,14,[15]	28,[30],31		X,[Y]	11	[18],21,[23],26
				6,[8],9.3	8,11	14,[17],18,[19]

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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
L2LDVH	*COfiler® and Profiler Plus®*						
	4e				14,17	12,12	8,[9],10
		12,14			8,[9],11	[9],[10],11,13	14,[16],17
			28,[30],31		X,X,[Y]	11,11,[12]	[18],21,[23],26
					6,[8],9.3	8,11	14,[17],18
LAWEFH	*Globalfiler*						
	4e	[15],15.3,16,[17.3]	[17],[19],23,24	10,[11],11.3,[Q]	[13]14,[16],17,[Q]	[11],12,12[Q]	[7],8,[9],10
		[11],12,[13],14,[Q]	[13],14,15,[Q]	[14],15,[22],23,[Q]	8,[9],11,[Q]	[10],11,[12],13,[Q]	[13],14,[16],17,[Q]
		[12],13,14,[Q]	[27],28,[30],31,[Q]	[11],[14],15,16,[Q]	X,X,[Y]	[10],11,11,[12]	[18],21,[23],26
				[12],13,[16],17,[Q]	6,9.3,[Q]	8,[10],11,[Q]	[13],14,[17],18,[19],[Q]
LVV3KJ	*PowerPlex® Fusion*						
	4e	15,15.3,16	19,23,24	10,11,11.3	14,17	12,12	7,8,10
		12,14	14,15	15,23	8,9,11	9,11,13	14,16,17
		13,14	28,30,31	15,16	X,X	11,11	18,21,23,26
		9,12	11,18		6,8,9.3	8,11	14,17,18
MDFUJH	*Identifiler® Plus*						
	4e		23,24		14,17	12	8,10
		12,14			8,[9],11	11,13	14,[16],17
		13,14,[15]	28,31		X	11	[18],21,[23],26
					6,9.3	8,11	14,18,[19]
MFHRTQ	*PowerPlex® 16*						
	4e				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
MGF3NT	*PowerPlex® 16*						
	4e				14,17	12	8,10
		12,14			8,11	9,11,13	14,16,17
			28,30,31		X,X	11	21,26
		9,11,12	7,11,18		6,9.3	8,11	14,18
MU2CE6	*Identifiler® Plus*						
	4e		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,16,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,17,18
MW9WYY	*PowerPlex® FUSION*						
	4e	15.3,16,17.3	17,19,23,24	10,11,11.3	14,17	12	8,10
		12,14	14,15	15,18,23	8,9,11	9,11,13	14,16,17
		13,14,15	28,31	11,15,16	X,Y	11	18,21,23,26
		9,12	11,12,18		6,8,9.3	8,11	14,18,19

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WebCode Item		D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
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		D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
		Penta D	Penta E	SE33	TH01	TPOX	vWA
MZ6JRM	*Identifiler® Plus*						
	4e		[17],[19],23,24		14,17	[11],12,12	8,[9],10
		12,14			8,[9],11	[9],[10],11,13	14,[16],17
		13,14,[15]	28,[30],31		X,X,[Y]	[10],11,11,[12]	[18],21,[23],26
					6,[8],9.3	8,11	14,[17],18,[19]
N3U63P	*GlobalFiler*						
	4e	14.3,15,15.3,16,Q	17,19,22,23,24	9,10,10.3,11,11.3,Q	13,14,16,17,Q	11,12,Q	7,8,9,10,Q
		11,12,13,14,Q	13,14,15,Q	14,15,18,22,23,Q	7,8,10,11,Q	10,11,12,13,Q	13,14,16,17,Q
		12,13,14,15,Q	27,28,30,31,Q	11,14,15,16,Q	X,Y	10,11,Q	20,21,25,26,Q
				12,13,16,17,Q	6,9.3,Q	8,10,11,Q	13,14,17,18,19,Q
N4HLCW	*PowerPlex® Fusion*						
	4e	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,[16],17
		13,14	28,31	15,16	X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
N4JD9J	*Identifiler®*						
	4e		23,24		14,17	11,12	8,10
		12,14			8,11	11,13	14,16,17
		13,14	28,30,31		X	11	21,26
					6,9.3	8,11	14,18
N8JLCU	*GlobalFiler*						
	4e	15.3,16,[17.3]	23,24	10,[11],11.3	14,17	12,12	8,10
		12,14	14,15	15,[18],23	8,[9],11	11,13	14,17
		13,14,[15]	28,[30],31	15,16	X,X,[X],[Y]	11,11	[18],21,[23],26
				13,17,[18]	6,9.3	8,11	14,18
NE2VZQ	*PowerPlex® 16*						
	4e				14,17	11,12	7,8,9,10
		12,14			8,9,11	9,10,11,13	14,16,17
			28,30,31		X,Y	10,11,12	18,21,23,26
		9,11,12	7,11,12,18		6,8,9.3	8,11	14,18,19
NGU26N	*PowerPlex®*						
	4e	15.3,16	17,19,23,24	10,11,11.3	14,17	12	8,10
		12,14	13,14,15	15,18,23	8,9,11	9,11,13	14,16,17
		13,14,15	28,31	15,16	X,Y	11,12	18,21,23,26
		9,12	7,11,12,18		6,8,9.3	8,11	14,18,19
NLFZCN	*PowerPlex® 16*						
	4e				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18

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		D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
		Penta D	Penta E	SE33	TH01	TPOX	vWA
NMGVZZ	*PowerPlex® Fusion*						
	4e	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,18,23	8,11	11,13	14,17
		13,14	28,31	11,15,16	X,X	11,11	18,21,25,26
		9,12	11,18		6,9.3	8,11	14,18
NRUG7L	*Identifiler® Plus*						
	4e		[17],[19],23,24		14,17	12	8,[9],10
		12,14			8,[9],11	[9],11,13	14,[16],17
		13,14	28,[30],31		X,[Y]	[10],11,[12]	[18],21,[23],26
					6,[8],9.3	8,11	14,18
NV6N8Q	*PowerPlex® 16*						
	4e				14,17	12	8,10
		12,14			8,11	11,13	14,16,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
NVRXK2	*IDPlex Plus*						
	4e		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
P9CWP9	*Identifiler® Plus*						
	4e		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
PEHQJ4	*Identifiler®*						
	4e		[17],[19],23,24		14,17	[11],12	[7],8,[9],10
		12,14			8,[9],11	[9],[10],11,13	14,[16],17
		13,14,[15]	28,[30],31		X,[Y]	[10],11,[12]	[18],21,[23],26
					6,[8],9.3	8,11	14,[17],18,[19]
PRLU7J	*Identifiler®*						
	4e		17,23,24		14,17	12	8,10
		12,14			8,11	9,11,13	14,17
		13,14	28,30,31		X	11	21,26
					6,9.3	8,11	14,18
PTXNQQ	*PowerPlex® 16 HS*						
	4e				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,30,31		X,Y	11	21,26
		9,12	11,18		6,9.3	8,11	14,17,18
PXRQQJ	*Identifiler® Plus*						
	4e		[17],[19],23,24		14,17	[11],12,12	[7],8,[9],10
		12,14			8,[9],11	[9],11,13	14,[16],17
		13,14,[15]	28,[30],31		X,X,[Y]	11,11,[12]	[18],21,[23],26
					6,[8],9.3	8,11	14,[17],18

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TABLE 1

Item 4e - STR Results

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
Q327XM	*PowerPlex® 16*						
	4e				14,17	12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	11	21,26
		9,11,12	11,18		6,9.3	8,11	14,18
QQACPY	*PowerPlex® Fusion, GlobalFiler™*						
	4e	15.3,16	23,24	10,11.3	14,17	12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
		9,12	11,18	13,17	6,9.3	8,11	14,18
QR43VD	*Globalfiler*						
	4e	15.3,16	23,24	10,11.3	14,17	[11],12	8,10
		12,14	[13],14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X	11	21,26
				13,17	6,9.3	8,11	14,18
QUBKTA	*COfiler® and Profiler Plus®*						
	4e				14,17	12	[7],8,10
		12,14			8,11	11,13	14,[16],17
			28,31		X,X	11,[12]	21,26
					6,9.3	8,11	14,[17],18
QVFBWH	*Identifiler®*						
	4e		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
QYFGDA	*Identifiler® Plus*						
	4e		[17],23,24		14,17	[11],12	8,10
		12,14			8,[9],11	11,13	14,[16],17
		13,14	28,[30],31		X,[Y]	11,[12]	21,26
					6,[8],9.3	8,11	14,18
R6LA86	*PowerPlex® Fusion*						
	4e	15.3,16,17.3	19,23,24	10,11,11.3	14,17	11,12	7,8,9,10
		12,14	13,14,15	15,18,23	8,11	10,11,13	14,16,17
		13,14,15	28,30,31	11,15,16	X	10,11,12	18,21,23,26
		9,11,12	7,11,12,18		6,8,9.3	8,11	14,17,18
R7FZDJ	*Identifiler®*						
	4e		23,24		14,17	11,12	8,10
		12,14			8,11	10,11,13	14,16,17
		13,14	28,30,31		X	11	21,26
					6,9.3	8,11	14,18
RRXBG3	*Identifiler®*						
	4e		[17],[19],23,24		14,17	[11],12	[7],8,[9],10
		12,14			8,[9],11	[9],[10],11,13	14,[16],17
		13,14,[15]	28,[30],31		X,[Y]	[10],11,[12]	[18],21,[23],26
					6,[8],9.3	8,11	14,[17],18,[19]

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TABLE 1

Item 4e - STR Results

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
RZQKMR	*Identifiler®*						
	4e		[17],[19],23,24		14,17	[11],12	8,10
		12,14			8,[9],11	[9],11,13	14,[16],17
		13,14,[15]	28,[30],31		X,[Y]	11,[12]	[18],21,[23],26
					6,[8],9.3	8,11	14,[17],18,[19]
TAQQVJ	*GlobalFiler*						
	4e	15,15.3,16,17.3	17,19,23,24	10,11,11.3	14,17	11,12	7,8,9,10
		12,14	13,14,15	15,18,23	8,9,11	9,10,11,13	14,16,17
		13,14,15	28,30,31	11,15,16	X,Y	10,11,12	18,21,23,26
				13,16,17,18	6,8,9.3	8,11,Q	14,17,18,19
TCFY2E	*Identifiler®*						
	4e		23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	21,26
					6,9.3	8,11	14,18
TRV6BT	*PowerPlex® Fusion*						
	4e	15,15.3,16,17.3	17,19,23,24	10,11,11.3	14,17	12	7,8,9,10
		12,14	13,14,15	15,18,23	8,9,11	9,11,13	14,16,17
		13,14	28,30,31	11,15,16	X,Y	11,12	18,21,23,26
		9,11,12	7,11,12,18		6,8,9.3	8,11	14,18,19
TT8YUY	*SURE ID*						
	4e	15.3,15.3	23,24		14,17	12,12	8,10
		12,14		15,23	8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18
TXKK2K	*PowerPlex® 16*						
	4e				14,17	[11],12	8,10
		12,14			8,11	11,13	14,17
			28,31		X,X	[10],11	21,26
		9,12	11,18		6,9.3	8,11	14,18
TXY7D8	*Identifiler® Plus*						
	4e		[17],[19],23,24		14,17	[11],12	[7],8,10
		12,14			8,[9],11	[9],11,13	14,[16],17
		13,14	28,[30],31		X	11,[12]	[18],21,26
					6,[8],9.3	8,11	14,[17],18,[19]
TYWA7H	*Globalfiler*						
	4e	14.3,15,15.3,16,17.3,Q	17,19,22,23,24,Q	10,11,11.3,Q	13,14,16,17,Q	11,12,Q	7,8,9,10,Q
		11,12,13,14,Q	13,14,15,Q	14,15,18,22,23,Q	7,8,9,10,11,Q	10,11,12,13,Q	13,14,16,17,Q
		12,13,14,15,Q	27,28,30,31,Q	14,15,16,Q	X,Y	10,11,Q	18,20,21,23,25,26,Q
				12,13,16,17,18,Q	6,9.3,Q	8,11,Q	14,17,18,19,Q

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TABLE 1

Item 4e - STR Results

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
TZKQFQ	*PowerPlex® Fusion*						
	4e	15,15.3,16,17.3	17,19,23,24	10,11,11.3	14,17	11,12	8,10
		12,14	14,15	15,18,23	8,9,11	9,11,13	14,16,17
		13,14,15	28,30,31	15,16	X,Y	11,12	18,21,23,26
		9,11,12	7,11,12,18		6,8,9.3	8,11	14,18,19
UBZ39E	*Identifiler®*						
	4e		23,24		14,17	11,12	7,8,9,10
		12,14			8,11	11,13	14,16,17
		13,14	28,30,31		X	11	21,26
					6,9.3	8,11	14,18
UH44BU	*PowerPlex® Fusion 5C*						
	4e	15.3,16	23,24	10,11,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,16,17
		13,14	28,31	15,16	X,X	11,11	18,21,23,26
		9,12	11,18		6,8,9.3	8,11	14,18
UHMP4K							
	4e				14,17	12	7,8,10
		12,14			8,11	9,11,13	14,16,17
			28,30,31		X,X	11	21,26
		9,12	11,18		6,8,9.3	8,11	14,18
UJWUG9	*COfiler® and Profiler Plus®*						
	4e				14,17	[11],12	[7],8,[9],10
		12,14			8,[9],11	[9],[10],11,13	14,[16],17
			28,[30],31		X,[Y]	[10],11,[12]	[18],21,[23],26
					6,[8],9.3	8,11	14,[17],18,[19]
URP8EM	*PowerPlex® Fusion*						
	4e	15.3,16	23,24	10,11.3	14,17	[11],12,12	8,10
		12,14	[13],14,15	15,23	8,[9],11	[10],11,13	14,[16],17
		13,14	28,[30],31	15,16	X,X	11,11	21,26
		9,12	11,12,18		6,9.3	8,11	14,[17],18
UTKQGN	*Identifiler®*						
	4e		[17],[19],23,24		14,17	12	8,[9],10
		12,14			8,11	[9],[10],11,13	14,[16],17
		13,14,[15]	28,[30],31		X,[Y]	[10],11	21,[23],26
					6,[8],9.3	8,11	14,18,[19]
VN88Y8	*PowerPlex® 16*						
	4e				14,17	[11],12	8,10
		12,14			8,11	[10],11,13	14,17
			28,31		X,X	11,11	21,26
		9,12	11,18		6,9.3	8,11	14,18

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Item 4e - STR Results

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
VY8XHU	*Identifiler® Plus*						
	4e		23,24		14,17	12,12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X,X	11,11	21,26
					6,9.3	8,11	14,18
WBCD34	*Identifiler® Plus*						
	4e		[17],23,24		14,17	[11],12	[7],8,[9],10
		12,14			8,[9],11	[9],[10],11,13	14,[16],17
		13,14	28,[30],31		X	[10],11	[18],21,[23],26
					6,[8],9.3	8,11	14,[17],18
WRJC9L							
	4e	15.3,16	[17],[19],23,24	10,[11],11.3	14,17	12,12	8,10
		12,14	[13],14,15	15,[18],23	8,[9],11	11,13	14,[16],17
		13,14	28,[30],31	[11],15,16	X,X,[Y]	11,11	[18],21,[23],26
				13,17,[18]	6,9.3	8,11	14,[17],18,[19]
WXQ2QU	*PowerPlex® Fusion*						
	4e	15,15.3,16,17.3	17,19,23,24	10,11,11.3	14,17	11,12	7,8,9,10
		12,14	13,14,15	15,18,23	8,9,11	9,10,11,13	14,16,17
		13,14,15	28,30,31	11,15,16	X,Y	10,11,12	18,21,23,26
		9,11,12	11,12,18		6,8,9.3	8,11	14,17,18,19
WYYD7B	*Identifiler®*						
	4e		17,23,24		14,17	11,12	8,9,10
		12,14			8,9,11	11,13	14,17
		13,14	28,30,31		X	11,12	21,23,26
					6,8,9.3	8,11	14,18
XC6LPE	*GlobalFiler*						
	4e	15,15.3,16,17.3	17,19,23,24	10,11,11.3	14,17	11,12	7,8,9,10
		12,14	13,14,15	15,18,23	8,9,11	9,10,11,13	14,16,17
		13,14,15	28,30,31	11,15,16	X,Y	10,11,12	18,21,23,26
				13,16,17,18	6,8,9.3	8,11,Q	14,17,18,19
XDEMNA	*PowerPlex® 16*						
	4e				14,17	11,12	8,10
		12,14			8,11	10,11,13	14,16,17
			28,30,31		X,X	11	21,26
		9,11,12	11,18		6,9.3	8,11	14,18
XF6XLD	*GlobalFiler*						
	4e	15,15.3,16,17.3	17,19,23,24	10,11,11.3	14,17	11,12	7,8,9,10
		12,14	13,14,15	15,18,23	8,9,11	9,10,11,13	14,16,17
		13,14,15	28,30,31	11,15,16	X,Y	10,11,12	18,21,23,26
				13,16,17,18	6,8,9.3	8,11	14,17,18,19
XHTDVL	*PowerPlex® Fusion*						
	4e	15.3,16,17.3	23,24	10,11,11.3	14,17	12	8,10
		12,14	13,14,15	15,18,23	8,11	11,13	14,16,17
		13,14	28,30,31	15,16	X	11,12	18,21,26
		9,12	11,18		6,8,9.3	8,11	14,18

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TABLE 1

Item 4e - STR Results

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
XTCMJF	*PowerPlex® 16*						
	4e				14,17	12	8,10
		12,14			8,11	11,13	14,16,17
			28,31		X,X	11	21,26
		9,12	11,18		6,9.3	8,11	14,18
XULTYP	*Investigator ESSplex SE Plus*						
	4e	15.3,16	23,24	10,11.3	14,17		
		12,14	14,15	15,23		11,13	14,17
		13,14	28,31	15,16	X,X		21,26
				13,17	6,9.3		14,18
Y2FKH3	*PowerPlex® 16 HS*						
	4e				14,[17]	12,12	8,[9],10
		12,14			8,11	11,13	14,17
			28,[30],31		X,[Y]	[10],11,[12]	[18],21,26
		9,12	11,[12],18		6,9.3	8,[11]	14,[17],18,[19]
Y3DUD7	*Identifiler® Plus*						
	4e		[19],23,24		14,17	12	[7],8,[9],10
		12,14			8,11	11,13	14,[16],17
		13,14	28,[30],31		X,[Y]	11,[12]	[18],21,[23],26
					6,9.3	8,11	14,18,[19]
Y3UR4K	*GlobalFiler*						
	4e	15,15.3,16,17.3	17,23,24	10,11,11.3	14,17	12	8,9,10
		12,14	13,14,15	15,18,23	8,9,11	11,13	14,16,17
		13,14	28,30,31	15,16	X,Y	10,11,12	21,23,26
				13,17	6,9.3	8,11	14,18
Y6XJXH	*PowerPlex® Fusion*						
	4e	15.3,16	23,24	10,11.3	14,17	12,12	8,10
		12,14	14,15	15,23	8,11	11,13	14,17
		13,14	28,31	15,16	X,X	11,11	21,[25],26
		9,12	11,18		6,9.3	8,11	14,18
YGCCQY	*PowerPlex® Fusion*						
	4e	[15],15.3,16,[17.3]	[17],[19],23,24	10,[11],11.3	14,17	12	[7],8,10
		12,14	[13],14,15	15,[18],23	8,[9],11	[9],[10],11,13	14,[16],17
		13,14,[15]	28,[30],31	15,16	X,[Y]	11,[12]	[18],21,[23],26
		9,12	[7],11,18		6,[8],9.3	8,11	14,[17],18,[19]
YLQCMQ	*Identifiler®*						
	4e		[17],[19],23,24		14,17	12	8,10
		12,14			8,11	11,13	14,17
		13,14	28,31		X	11	[18],21,26
					6,9.3	8,11	14,18,[19]

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TABLE 1

Item 4e - STR Results

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
Z6EVE3	*PowerPlex® 16*						
	4e				14,17	[11],12	[7],8,[9],10
		12,14			8,[9],11	[9],[10],11,13	14,16,17
			28,[30],31		X,[Y]	[10],11,[12]	[18],21,[23],26
		9,[11],12	[7],11,[12],18		6,[8],9.3	8,11	14,[17],18,[19]
ZGEJEC	*PowerPlex® Fusion*						
	4e	15.3,16	17,19,23,24	10,11,11.3	14,17	12	8,10
		12,14	14,15	15,18,23	8,9,11	9,11,13	14,16,17
		13,14,15	28,30,31	15,16	X,Y	11,12	18,21,23,26
		9,12	11,12,18		6,8,9.3	8,11	14,18

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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

NANAU6	*Identifiler® Plus (+)*					
	4PC		17,19	14,17	11,12	7,9
		12,14		9,11	9,10	16,16
		14,15	28,30	X,Y	10,12	18,23
				6,8	8,11	17,19

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TABLE 1

Item 4sp - STR Results

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
2F9V4C	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
2FV3QW	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
2K6F8V	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
2LZXAW	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
2PJXPC	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
2QR7WC	*GlobalFiler*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
2WW2FC	*PowerPlex® PP21*						
	4sp	15,17.3	17,19		14,17	11,12	7,9
		12,14		18,23	9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
3744CW	*COfiler® and Profiler Plus®*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
37YLEX	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

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TABLE 1

Item 4sp - STR Results

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
38XP89	*GlobalFiler*						
	4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
3HVPKD	*PowerPlex® 16 HS*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,18,19
3QPYNG	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
3V3FKZ	*Globalfiler*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
3WG6NC	*GlobalFiler*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
3ZA7M7	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,18,19
3ZCWUN	*PowerPlex® Fusion 5C*						
	4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
4EQL4A	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
4FL46B	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,11,12	18,23
		11	7,12,18		6,8	8,11	17,19

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TABLE 1

Item 4sp - STR Results

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
4G24MF	*GlobalFiler*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,11,12	18,23
				16,18	6,8	8,11	14,17,18,19
4M3FKX	*PowerPlex® Fusion 6C*						
	4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12	16,18	6,8	8,11	17,19
4M8Z9Z	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
4P93WG	*PowerPlex® FUSION*						
	4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
4PBVR4	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
4TCWW8	*GlobalFiler*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
62VR78	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
62WMUJ	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
68A8Z6	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

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TABLE 1

Item 4sp - STR Results

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
6KXAKH							
	4sp	15,17.3	17,19	11,11	14,17		
		12,14	13,13	18,23		9,10	16,16
		14,15	28,30	11,16	X,Y		18,23
				16,18	6,8		17,19
6LQ3G2	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
6M263Z	*Globalfiler*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
6YE6YT	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
6YRYC9	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
72D3MQ	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
739LNR	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
76E4MN	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
779UT3	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

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TABLE 1

Item 4sp - STR Results

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
7B2UAJ	*PowerPlex®*						
	4sp	15,17.3	17,19		14,17	11,12	7,9
		12,14		18,23	9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
7XDRQQ	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
8BV4F7	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
8FPXD8	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
8LG6X2	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
8PZZY8	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
8UBDG7	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
8XTBBN	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
97JFFA	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

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TABLE 1

Item 4sp - STR Results

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
9C74CZ	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
A69TL2	*Globalfiler*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
ADZBV4	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
AMM8W6	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
B3UQ92	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
B44VLQ	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19,23	11	14,17	11,12	7,9
		12,14	13	15,18,23	9,11	9,10,13	16
		14,15	28,30,31	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
B8QEP9	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
B9MQNH	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
BHMDHZ	*GlobalFiler*						
	4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19

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TABLE 1

Item 4sp - STR Results

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
BHNBPP	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
BL8B66	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
BMH8EF	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
BNCXJV	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
BT7U9L	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
C9TUDQ	*COfiler® and Profiler Plus®*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
C9XCBP	*GlobalFiler*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
CEJ2XK	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
CGQJWF	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

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TABLE 1

Item 4sp - STR Results

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
CLF297	*GlobalFiler*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
CV8EAQ	*GlobalFiler*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
CYQEP8	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
D3JVE7	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
D7NLLL	*COfiler® and Profiler Plus®*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
DA7L22	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
DCC7P2	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
DLZXDE	*PowerPlex® CS7-ESX, GlobalFiler*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12	16,18	6,8	8,11	17,19
DMUQ9X	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

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TABLE 1

Item 4sp - STR Results

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
E9TCNU	*Identifiler®*					
4sp		17,19		14,17	11,12	7,9
	12,14			9,11	9,10	16
	14,15	28,30		X,Y	10,12	18,23
				6,8	8,11	17,19
ECPVRD						
4sp		17,19		14,17	11,12	7,9
	12,14			9,11	9,10	16,16
	14,15	28,30		X,Y	10,12	18,23
				6,8	8,11	17,19
EPEUJF	*Identifiler®*					
4sp		17,19		14,17	11,12	7,9
	12,14			9,11	9,10	16
	14,15	28,30		X,Y	10,12	18,23
				6,8	8,11	17,19
EQ9KPV	*Identifiler®*					
4sp		17,19		14,17	11,12	7,9
	12,14			9,11	9,10	16
	14,15	28,30		X,Y	10,12	18,23
				6,8	8,11	17,19
EQPW8Z	*GlobalFiler*					
4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
	12,14	13,13	18,23	9,11	9,10	16,16
	14,15	28,30	11,16	X,Y	10,12	18,23
			16,18	6,8	8,11	17,19
EY2VYQ	*Globalfiler*					
4sp	15,17.3	17,19	11	14,17	11,12	7,9
	12,14	13	18,23	9,11	9,10	16
	14,15	28,30	11,16	X,Y	10,12	18,23
			16,18	6,8	8,11	17,19
F9KPQD	*Globalfiler*					
4sp	15,17.3	17,19	11	14,17	11,12	7,9
	12,14	13	18,23	9,11	9,10	16
	14,15	28,30	11,16	X,Y	10,12	18,23
			16,18	6,8	8,11	17,19
FJHUF6	*PowerPlex®*					
4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
	12,14	13,13	18,23	9,11	9,10	16,16
	14,15	28,30	11,16	X,Y	10,12	18,23
	11,11	7,12		6,8	8,11	17,19
FJKJK2	*Identifiler®*					
4sp		17,19		14,17	11,12	7,9
	12,14			9,11	9,10	16
	14,15	28,30		X,Y	10,12	18,23
				6,8	8,11	17,19

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TABLE 1

Item 4sp - STR Results

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
GCYJ7A	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
GFYVZP	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
GG96Q2	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
GKCZA4	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19	11,11,[11.3]	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30,[31]	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
GL4RNV	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
HFWPWZ	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
HG8L6B	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
HKQLLQ	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
HLZTNJ	*PowerPlex® 16 HS*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19

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TABLE 1

Item 4sp - STR Results

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
HMW4JM	*PowerPlex®*						
	4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
HPHT4Y	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
HV876M	*PowerPlex® FUSION*						
	4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
HVNGL8	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
HVNMXV	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
J6VJJD	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
J74TAP	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
J7Q3LE	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
JCEPGK	*COfiler® and Profiler Plus®*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

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TABLE 1

Item 4sp - STR Results

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
JKLGNU	*GlobalFiler*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
JMQC6B	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
JR7MHF	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
K7K6RU	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
K97WYQ	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
K9BDXP	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
KCQ2CU	*PowerPlex® 16 HS*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
KPU6WN	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
KVY48E	*COfiler® and Profiler Plus®*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

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TABLE 1

Item 4sp - STR Results

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
KYH3MU	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
L2LDVH	*COfiler® and Profiler Plus®*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	[14],16,16,[17]
			28,30,[31]		X,Y	10,[11],12	18,23
					6,8	8,11	17,[18],19
LAWEFH	*Globalfiler*						
	4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
LVV3KJ	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
MDFUJH	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
MFHRTQ	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
MGF3NT	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
MU2CE6	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
MW9WYY	*PowerPlex® FUSION*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19

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TABLE 1

Item 4sp - STR Results

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
MZ6JRM	*Identifiler® Plus*					
4sp		17,19		14,17	11,12	7,9
	12,14			9,11	9,10	16,16
	14,15	28,30		X,Y	10,12	18,23
				6,8	8,11	17,19
N3U63P	*GlobalFiler*					
4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
	12,14	13,13	18,23	9,11	9,10	16,16
	14,15	28,30	11,16	X,Y	10,12	18,23
			16,18	6,8	8,11	17,19
N4HLCW	*PowerPlex® Fusion*					
4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
	12,14	13,13	18,23	9,11	9,10	16,16
	14,15	28,30	11,16	X,Y	10,12	18,23
	11,11	7,12		6,8	8,11	17,19
N4JD9J	*Identifiler®*					
4sp		17,19		14,17	11,12	7,9
	12,14			9,11	9,10	16
	14,15	28,30		X,Y	10,12	18,23
				6,8	8,11	17,19
N8JLCU	*GlobalFiler*					
4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
	12,14	13,13	18,23	9,11	9,10	16,16
	14,15	28,30	11,16	X,Y	10,12	18,23
			16,18	6,8	8,11	17,19
NE2VZQ	*PowerPlex® 16*					
4sp				14,17	11,12	7,9
	12,14			9,11	9,10	16
		28,30		X,Y	10,12	18,23
	11	7,12		6,8	8,11	17,19
NGU26N	*PowerPlex®*					
4sp	15,17.3	17,19	11	14,17	11,12	7,9
	12,14	13	18,23	9,11	9,10	16
	14,15	28,30	11,16	X,Y	10,12	18,23
	11	7,12		6,8	8,11	17,19
NLFZCN	*PowerPlex® 16*					
4sp				14,17	11,12	7,9
	12,14			9,11	9,10	16
		28,30		X,Y	10,12	18,23
	11	7,12		6,8	8,11	17,19
NMGVZZ	*PowerPlex® Fusion*					
4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
	12,14	13,13	18,23	9,11	9,10	16,16
	14,15	28,30	11,16	X,Y	10,12	18,23
	11,11	7,12		6,8	8,11	17,19

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TABLE 1

Item 4sp - STR Results

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
NRUG7L	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
NV6N8Q	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
NVRXK2	*IDPlex Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
P9CWP9	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
PEHQJ4	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
PRLU7J	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
PTXNQQ	*PowerPlex® 16 HS*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,18,19
PXRQQJ	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
Q327XM	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19

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TABLE 1

Item 4sp - STR Results

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
QQACPY	*PowerPlex® Fusion, GlobalFiler™*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12	16,18	6,8	8,11	17,19
QR43VD	*Globalfiler*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
QUBKTA	*COfiler® and Profiler Plus®*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
QVFBWH	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
QYFGDA	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
R6LA86	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
R7FZDJ	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
RRXBG3	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
RZQKMR	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

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TABLE 1

Item 4sp - STR Results

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
TAQQVJ	*GlobalFiler*					
4sp	15,17.3	17,19	11	14,17	11,12	7,9
	12,14	13	18,23	9,11	9,10	16
	14,15	28,30	11,16	X,Y	10,12	18,23
			16,18	6,8	8,11	17,19
TCFY2E	*Identifiler®*					
4sp		17,19		14,17	11,12	7,9
	12,14			9,11	9,10	16
	14,15	28,30		X,Y	10,12	18,23
				6,8	8,11	17,19
TRV6BT	*PowerPlex® Fusion*					
4sp	15,17.3	17,19	11	14,17	11,12	7,9
	12,14	13	18,23	9,11	9,10	16
	14,15	28,30	11,16	X,Y	10,12	18,23
	11	7,12		6,8	8,11	17,19
TT8YUY	*SURE ID*					
4sp	15,17.3	17,19		14,17	11,12	7,9
	12,14		18,23	9,11	9,10	16,16
	14,15	28,30		X,Y	10,12	18,23
	11,11	7,12		6,8	8,11	17,19
TXKK2K	*PowerPlex® 16*					
4sp				14,17	11,12	7,9
	12,14			9,11	9,10	16
		28,30		X,Y	10,12	18,23
	11	7,12		6,8	8,11	17,19
TXY7D8	*Identifiler® Plus*					
4sp		17,19		14,17	11,12	7,9
	12,14			9,11	9,10	16
	14,15	28,30		X,Y	10,12	18,23
				6,8	8,11	17,19
TYWA7H	*Globalfiler*					
4sp	15,17.3	17,19	11	14,17	11,12	7,9
	12,14	13	18,23	9,11	9,10	16
	14,15	28,30	11,16	X,Y	10,12	18,23
			16,18	6,8	8,11	17,19
TZKQFQ	*PowerPlex® Fusion*					
4sp	15,17.3	17,19	11	14,17	11,12	7,9
	12,14	13	18,23	9,11	9,10	16
	14,15	28,30	11,16	X,Y	10,12	18,23
	11	7,12		6,8	8,11	17,19
UBZ39E	*Identifiler®*					
4sp		17,19		14,17	11,12	7,9
	12,14			9,11	9,10	16
	14,15	28,30		X,Y	10,12	18,23
				6,8	8,11	17,19

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TABLE 1

Item 4sp - STR Results

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
UH44BU	*PowerPlex® Fusion 5C*						
	4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
UHMP4K							
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
UJWUG9	*COfiler® and Profiler Plus®*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
URP8EM	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
UTKQGN	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
VN88Y8	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
VY8XHU	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
WBCD34	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
WRJC9L							
	4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19

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TABLE 1

Item 4sp - STR Results

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
WXQ2QU	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
WYYD7B	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
XC6LPE	*GlobalFiler*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
XDEMNA	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
XF6XLD	*GlobalFiler*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
XHTDVL	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
XTCMJF	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
XULTYP	*Investigator ESSplex SE Plus*						
	4sp	15,17.3	17,19	11,11	14,17		
		12,14	13,13	18,23		9,10	16,16
		14,15	28,30	11,16	X,Y		18,23
				16,18	6,8		17,19
Y2FKH3	*PowerPlex® 16 HS*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19

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TABLE 1

Item 4sp - STR Results

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
Y3DUD7	*Identifiler® Plus*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
Y3UR4K	*GlobalFiler*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
Y6XJXH	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
YGCCQY	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
YLQCMQ	*Identifiler®*						
	4sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
Z6EVE3	*PowerPlex® 16*						
	4sp				14,17	11,12	7,9
		12,14			9,11	9,10	16,16
			28,30		X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
ZGEJEC	*PowerPlex® Fusion*						
	4sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8,9.3	8,11	17,19

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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

2K6F8V	*PowerPlex Fusion*	
	1	
2LZXAW	*Yfiler®*	
	1	
62WMUJ	*Yfiler®*	
	1	
6YE6YT	*Yfiler®*	
	1	
72D3MQ	*PowerPlex Fusion*	
	1	
739LNR	*Yfiler®*	
	1	
7XDRQQ	*PowerPlex® Fusion*	
	1	
BT7U9L	*PowerPlex Fusion*	
	1	
CEJ2XK	*PowerPlex Fusion*	
	1	
J6VJJD	*PowerPlex Fusion*	
	1	

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TABLE 2

Item 1 - YSTR Results

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	
JR7MHF	*Yfiler®*								
	1								
NRUG7L	*Yfiler®*								
	1								
R6LA86	*PowerPlex Fusion*								
	1								
YGCCQY	*PowerPlex Fusion*								
	1								

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TABLE 2

Item 2 - YSTR Results

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	
2F9QQN	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
2FV3QW	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
2K6F8V	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
2LZXAW	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
37YLEX	*Yfiler® Direct, GFE for Yindel only*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11	2	
38XP89	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11	2	
3HVPKD	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11		
3V3FKZ	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
4G24MF	*Yfiler® , GlobalFiler*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11	2	
4M3FKX	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11		

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TABLE 2

Item 2 - YSTR Results

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	
4M8Z9Z	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
4P93WG	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11		
62WMUJ	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
68A8Z6	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
6KXAKH	*Yfiler® Plus*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
			18	18	21		11		
6LQ3G2	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11		
6M263Z									
	2						11		
								2	
6YE6YT	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
6YRYC9	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11		
72D3MQ	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		

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TABLE 2

Item 2 - YSTR Results

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	
739LNR	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
76E4MN	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
7B2UAJ	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
			18	18	21		11		
7XDRQQ	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
8FPXD8	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
8UBDG7	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11		
8XTBBN	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
97JFFA	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
A69TL2	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11	2	
ADZBV4	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11		

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TABLE 2

Item 2 - YSTR Results

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	
AMM8W6	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
B44VLQ	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
B9MQNH	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
BBMXQ8	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
BHNBPP	*Yfiler® Direct, Globalfiler Express for Y Indel*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11	2	
BNCXJV	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11		
BT7U9L	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
C9XCBP	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
CDBUT7	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
CEJ2XK	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		

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TABLE 2

Item 2 - YSTR Results

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	
CLF297	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
CV8EAQ	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
D3JVE7	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
DA7L22	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
DLZXDE	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11	2	
EQPW8Z	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11	2	
EY2VYQ									
	2						11		
								2	
F9KPQD	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
FJHUF6	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11		
FJKJK2	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		

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TABLE 2

Item 2 - YSTR Results

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	
GCYJ7A	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
GFYVZP	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11		
GG96Q2	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
GKCZA4	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11		
HFWPWZ	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
HG8L6B	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
HKQLLQ	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
HLZTNJ	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
HV876M	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11		
HVNGL8	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		

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TABLE 2

Item 2 - YSTR Results

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	
J6VJJD	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
J74TAP	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
J7Q3LE	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
JMQC6B	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
JR7MHF	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
K4TBT6	*Yfiler® Plus*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
			18	18	21		11		
K9BDXP	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
KCQ2CU	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11		
KPU6WN	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
KYH3MU	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		

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TABLE 2

Item 2 - YSTR Results

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		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	
LAWEFH	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11	2	
LVV3KJ	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11		
MZ6JRM	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
N3U63P									
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11	2	
N4HLCW	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11		
NGU26N	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
NLFZCN	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
NRUG7L	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
NVRXK2	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11		
P9CWP9									
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		

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TABLE 2

Item 2 - YSTR Results

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
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		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	
PEHQJ4	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
PTXNQQ	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11		
PXRQQJ	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
QQACPY	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11	2	
QR43VD	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
QVFBWH	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
QYFGDA	*Yfiler® Direct, Y Indel from GFE*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11	2	
R6LA86	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
RRXBG3	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
RZQKMR	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		

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TABLE 2

Item 2 - YSTR Results

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		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	
TRV6BT	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
TT8YUY	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
TXKK2K	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11		
TXY7D8	*Yfiler® Direct, GlobalFiler Express YIndel*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11	2	
URP8EM	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11		
UTKQGN	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
VY8XHU	*PowerPlex® Y*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13					
WBCD34	*Yfiler® Direct, GFE for Y Indel*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11	2	
XF6XLD	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11	2	
Y2FKH3	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		

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TABLE 2

Item 2 - YSTR Results

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	
Y3UR4K	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		
Y6XJXH	*PowerPlex® Y 23*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18	25	12
		12	18	18	21	12	11		
YGCCQY	*Yfiler®*								
	2	16	12,16	13	30	24	11	11	13
		14	10	13	20	15	18		
					21		11		

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TABLE 2

Item 3 - YSTR Results

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	
2F9QQN	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
2FV3QW	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
2K6F8V	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
2LZXAW	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
37YLEX	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
38XP89	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12	2	
3HVPKD	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
3V3FKZ	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
4G24MF	*Yfiler® , GlobalFiler*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12	2	
4M3FKX	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		

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TABLE 2

Item 3 - YSTR Results

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	
4M8Z9Z	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
4P93WG	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
68A8Z6	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
6KXAKH	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12	2	
6LQ3G2	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
6M263Z									
	3						11		
								2	
6YE6YT	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
6YRYC9	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
72D3MQ	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
739LNR	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

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TABLE 2

Item 3 - YSTR Results

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		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	
76E4MN	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
7B2UAJ	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
			17	19	23		12		
7XDRQQ	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
8FPXD8	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
8UBDG7	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
8XTBBN	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
97JFFA	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
A69TL2	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12	2	
ADZBV4	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
AMM8W6	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

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TABLE 2

Item 3 - YSTR Results

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		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	
B44VLQ	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
B9MQNH	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
BHNBPP	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
BNCXJV	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
BT7U9L	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
C9XCBP	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
CEJ2XK	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
CLF297	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
D3JVE7	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
DA7L22	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

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TABLE 2

Item 3 - YSTR Results

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	
DLZXDE	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12	2	
EQPW8Z	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12	2	
EY2VYQ									
	3						11		
								2	
F9KPQD	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
FJHUF6	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
FJKJK2	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
GCYJ7A	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
GFYVZP	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
GG96Q2	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
GKCZA4	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		

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TABLE 2

Item 3 - YSTR Results

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	
HFWPWZ	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
HG8L6B	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
HKQLLQ	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
HLZTNJ	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
HV876M	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
HVNGL8	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
J6VJJD	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
J74TAP	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
J7Q3LE	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
JMQC6B	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

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TABLE 2

Item 3 - YSTR Results

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	
JR7MHF	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
K4TBT6	*Yfiler® Plus*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
			17	19	23		12		
K9BDXP	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
KCQ2CU	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
KPU6WN	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
KYH3MU	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
LAWEFH	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12	2	
LVV3KJ	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
MZ6JRM	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
N3U63P									
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12	2	

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TABLE 2

Item 3 - YSTR Results

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	
N4HLCW	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
NGU26N	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
NLFZCN	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
NRUG7L	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
NVRXK2									
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
P9CWP9	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
PEHQJ4	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
PTXNQQ	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
PXRQQJ	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
QQACPY	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12	2	

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TABLE 2

Item 3 - YSTR Results

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	
QR43VD	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
QVFBWH	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
QYFGDA	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
R6LA86	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
RRXBG3	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
TRV6BT	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
TT8YUY	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
TXKK2K	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
TXY7D8	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
URP8EM	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		

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TABLE 2

Item 3 - YSTR Results

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	
UTKQGN	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
VY8XHU	*PowerPlex® Y*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12					
WBCD34	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
XF6XLD	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12	2	
Y2FKH3	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
Y3UR4K	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
Y6XJXH	*PowerPlex® Y 23*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
YGCCQY	*Yfiler®*								
	3	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
ZGEJEC									
	3						11		

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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 3e - YSTR Results									
62WMUJ	*Yfiler®*								
	3e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

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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 3sp - YSTR Results									
62WMUJ	*Yfiler®* 3sp								

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TABLE 2

Item 4 - YSTR Results

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	
2F9QQN	*Yfiler®*								
	4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
6KXAKH	*Yfiler® Plus*								
	4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
			17	19	23		12		
7B2UAJ	*Yfiler®*								
	4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
			17	19	23		12		
K4TBT6	*Yfiler® Plus*								
	4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
			17	19	23		12		
NVRXK2	*PowerPlex® Y 23*								
	4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
TT8YUY	*Yfiler®*								
	4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
VY8XHU	*PowerPlex® Y*								
	4	14	11,14	12	28	24	11	13	13
		15	12	12					

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TABLE 2

Item 4e - YSTR Results

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	
2FV3QW	*Yfiler®*								
	4e								
2K6F8V	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
2LZXAW	*Yfiler®*								
	4e								
37YLEX	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
38XP89	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12	2	
3HVPKD	*PowerPlex® Y 23*								
	4e								
3V3FKZ	*Yfiler®*								
	4e								
4G24MF	*Yfiler® , GlobalFiler*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12	2	
4M3FKX	*PowerPlex® Y 23*								
	4e								
4P93WG	*PowerPlex® Y 23*								
	4e								

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TABLE 2

Item 4e - YSTR Results

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	
62WMUJ	*Yfiler®*								
	4e								
68A8Z6	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
6LQ3G2	*PowerPlex® Y 23*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
6M263Z									
	4e								
6YE6YT	*Yfiler®*								
	4e								
6YRYC9	*PowerPlex® Y 23*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
72D3MQ	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
739LNR	*Yfiler®*								
	4e								
76E4MN	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
7XDRQQ	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

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TABLE 2

Item 4e - YSTR Results

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	
8FPXD8	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
8UBDG7	*PowerPlex® Y 23*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
8XTBBN	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
97JFFA	*Yfiler®*								
	4e								
A69TL2	*Yfiler®*								
	4e								
								2	
ADZBV4	*PowerPlex® Y 23*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
AMM8W6	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
B44VLQ	*Yfiler®*								
	4e								
B9MQNH	*Yfiler®*								
	4e								
BHNBPP	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

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TABLE 2

Item 4e - YSTR Results

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	
BNCXJV	*PowerPlex® Y 23*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
BT7U9L	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
C9XCBP	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
CEJ2XK	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
CLF297									
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
CV8EAQ	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
D3JVE7	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
DA7L22	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
EQPW8Z	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
EY2VYQ									
	4e								
								[2]	

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TABLE 2

Item 4e - YSTR Results

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	
F9KPQD	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
FJHUF6	*PowerPlex® Y 23*								
	4e	bdl	bdl	bdl	bdl	24	11	13	13
		bdl	12	12	bdl	bdl	17	bdl	12
		bdl	17	bdl	23	bdl	bdl		
FJKJK2	*Yfiler®*								
	4e								
GCYJ7A	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
GFYVZP	*PowerPlex® Y 23*								
	4e								13
							17	21	
GG96Q2	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
GKCZA4	*PowerPlex® Y 23*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
HFWPWZ	*Yfiler®*								
	4e								
HG8L6B	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
HKQLLQ	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

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TABLE 2

Item 4e - YSTR Results

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	
HLZTNJ	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
HV876M	*PowerPlex® Y 23*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
HVNGL8	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
J6VJJD	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
J74TAP	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
J7Q3LE	*Yfiler®*								
	4e								
JMQC6B	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
JR7MHF	*Yfiler®*								
	4e								
K9BDXP	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
KCQ2CU	*PowerPlex® Y 23*								
	4e								

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TABLE 2

Item 4e - YSTR Results

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	
KPU6WN	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
KYH3MU	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
LAWEFH	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
LVV3KJ	*PowerPlex® Y 23*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
MZ6JRM	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12		17	17		
					23		12		
N3U63P									
	4e						11		
								2	
N4HLCW	*PowerPlex® Y 23*								
	4e								
NGU26N	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
NLFZCN	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
NRUG7L	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

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TABLE 2

Item 4e - YSTR Results

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	
P9CWP9	*Yfiler®*								
	4e								
PEHQJ4	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
PTXNQQ	*PowerPlex® Y 23*								
	4e								
PXRQQJ									
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
QQACPY	*PowerPlex® Y 23*								
	4e								
QR43VD	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
QVFBWH	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
QYFGDA	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
R6LA86	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
RRXBG3	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

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TABLE 2

Item 4e - YSTR Results

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	
TRV6BT	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
TXKK2K	*PowerPlex® Y 23*								
	4e	14	11,14	12	28		11	13	13
		15	12	12	19		17	21	12
			17		23		12		
TXY7D8	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
URP8EM	*PowerPlex® Y 23*								
	4e	14	11,14	12	28	24	11	13	13
		BDL	12	12	19	17	17	21	12
		12	17	19	23	10	12		
UTKQGN	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
WBCD34	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
XF6XLD	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12	2	
Y2FKH3	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
Y3UR4K	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
Y6XJXH	*PowerPlex® Y 23*								
	4e								

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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									
YGCCQY	*Yfiler®*								
	4e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

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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									
2FV3QW	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
2K6F8V	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
2LZXAW	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
37YLEX	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
38XP89	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12	2	
3HVPKD	*PowerPlex® Y 23*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
3V3FKZ	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
4G24MF	*Yfiler® , GlobalFiler*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12	2	
4M3FKX	*PowerPlex® Y 23*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
4M8Z9Z	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

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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									
4P93WG	*PowerPlex® Y 23*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
62WMUJ	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
68A8Z6	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
6LQ3G2	*PowerPlex® Y 23*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
6M263Z									
	4sp						11		
								2	
6YE6YT	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
6YRYC9	*PowerPlex® Y 23*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
72D3MQ	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
739LNR	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
76E4MN	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

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TABLE 2

Item 4sp - YSTR Results

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	
7XDRQQ	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
8FPXD8	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
8UBDG7	*PowerPlex® Y 23*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
8XTBBN	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
97JFFA	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
A69TL2	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12	2	
ADZBV4									
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
AMM8W6	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
B44VLQ	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
B9MQNH	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

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TABLE 2

Item 4sp - YSTR Results

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	
BHNBPP	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
BNCXJV	*PowerPlex® Y 23*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
BT7U9L	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
C9XCBP	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
CEJ2XK	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
CLF297									
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
CV8EAQ	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
D3JVE7	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
DA7L22	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
DLZXDE	*PowerPlex® Y 23*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12	2	

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TABLE 2

Item 4sp - YSTR Results

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	
EQPW8Z	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12	2	
EY2VYQ									
	4sp						11		
								2	
F9KPQD	*Yfiler®*								
	4sp								
FJHUF6	*PowerPlex® Y 23*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
FJKJK2	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
GCYJ7A	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
GFYVZP	*PowerPlex® Y 23*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
GG96Q2	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
GKCZA4	*PowerPlex® Y 23*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
HFWPWZ	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

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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									
HG8L6B	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
HKQLLQ	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
HLZTNJ	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
HV876M	*PowerPlex® Y 23*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
HVNGL8	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
J6VJJD	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
J74TAP	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
J7Q3LE	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
JMQC6B	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
JR7MHF	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

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TABLE 2

Item 4sp - YSTR Results

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	
K9BDXP	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
KCQ2CU	*PowerPlex® Y 23*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
KPU6WN	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
KYH3MU	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
LAWEFH	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12	2	
LVV3KJ	*PowerPlex® Y 23*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
MZ6JRM	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
N3U63P									
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12	2	
N4HLCW	*PowerPlex® Y 23*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
NGU26N	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

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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									
NLFZCN	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
NRUG7L	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
P9CWP9	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
PEHQJ4	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
PTXNQQ	*PowerPlex® Y 23*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
PXRQQJ									
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
QQACPY	*PowerPlex® Y 23*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12	2	
QR43VD	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
QVFBWH	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
QYFGDA	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

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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									
R6LA86	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
RRXBG3	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
TRV6BT	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
TXKK2K	*PowerPlex® Y 23*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
TXY7D8	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
URP8EM	*PowerPlex® Y 23*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
UTKQGN	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
WBCD34	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
XF6XLD	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12	2	
Y2FKH3	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

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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									
Y3UR4K	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
Y6XJXH	*PowerPlex® Y 23*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
YGCCQY	*Yfiler®*								
	4sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

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Additional DNA Results

TABLE 3

Locus	WebCode	Item 1	Item 2	Item 3	Item 3e	Item 3sp	Item 4	Item 4e	Item 4sp
D6S1043	2WW2FC	12,17	11,19						
DYF387S1	K4TBT6		35,38	36			36		
DYS391	2K6F8V		11	11					11
	2QR7WC		11	11					11
	3QPYNG		11	11				11	11
	3WG6NC		11	11				11	11
	3ZCWUN		11	11					10,11
	4TCWW8		11		11			11	11
	6LQ3G2		11	11					11
	72D3MQ		11	11				11	11
	7XDRQQ		11	11					11
	B44VLQ		11	11				11	11
	B8QEP9		11	11					11
	BHMDHZ		11	11				11	11
	BNCXJV		11	11					11
	BT7U9L		11	11				11	11
	CEJ2XK		11	11				11	11
	CLF297		11	11				11	11
	D3JVE7		11	11				11	11
	GFYVZP		11	11					11
	HMW4JM		11	11					11
	HV876M		11	11					11
	J6VJJD		11	11				11	11
	JKLGNU		11	11					11
	LVV3KJ		11	11					11
	MW9WYY		11	11				11	11
	N8JLCU		11	11					11
	NMGVZZ		11	11					10,11
	R6LA86		11	11				11	11
	TAQQVJ		11	11				11	11
	TYWA7H		11	11				11	11
	TZKQFQ		11	11					11
	UH44BU		11	11					11
	WRJC9L		11	11				[11]	11
	WXQ2QU		11	11				11	11
	XC6LPE		11	11				11	11
	XHTDVL		11	11					11
	Y3UR4K		11	11					11
	YGCCQY		11	11					11
	ZGEJEC		11	11				11	11
DYS449	K4TBT6		29	29			29		
DYS518	K4TBT6		39	39			39		

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TABLE 3

Locus	WebCode	Item 1	Item 2	Item 3	Item 3e	Item 3sp	Item 4	Item 4e	Item 4sp
DYS627	K4TBT6		22	21			21		
F13A01	DLZXDE	7	5,7	3.2,6				7	3.2,6
F13B	DLZXDE	8	9	10				8	10
FESFPS	DLZXDE	10,12	11,12	10				10,12	10
INDEL	CLF297		2	2				2	2
LPL	DLZXDE	11	10	10,11				11	10,11
PENTA C	DLZXDE	9,10	10,11	9,13				9,10	9,13
YINDEL	2QR7WC		2	2				2	2
	3WG6NC		2	2				2	2
	4TCWW8		2		2			2	2
	BHMDHZ		2	2					2
	JKLGNU		2	2					2
	N8JLCU		2	2					2
	QR43VD		2	2					2
	TAQQVJ		2	2				2	2
	TYWA7H		2	2				2	2
	WRJC9L		2	2				[2]	2
	XC6LPE		2	2				2	2
	Y3UR4K		2	2				2	2

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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

	Victim (Item 1)		Suspect (Item 2)			Victim (Item 1)		Suspect (Item 2)	
WebCode	Item 3	Item 4	Item 3	Item 4	WebCode	Item 3	Item 4	Item 3	Item 4
2F9QQN	No	Yes	No	No	4P93WG	No	Yes	No	No
2F9V4C	No	Yes	No	No	4PBVR4	No	Yes	No	No
2FV3QW	No	Yes	No	No	4TCWW8	No	Yes	No	No
2K6F8V	No	Yes	No	No	62VR78	No	Yes	No	No
2LZXAW	No	Yes	No	No	62WMUJ	No	Yes	No	No
2PJXPC	No	Yes	No	No	68A8Z6	No	Yes	No	No
2QR7WC	No	Yes	No	No	6KXAKH	No	No	No	No
2WW2FC	No	Yes	No	No	6LQ3G2	No	Yes	No	No
3744CW	No	Yes	No	No	6M263Z	No	Yes	No	No
37YLEX	No	Yes	No	No	6YE6YT	No	Yes	No	No
38XP89	No	Yes	No	No	6YRYC9	No	Yes	No	No
3HVPKD	No	Yes	No	No	72D3MQ	No	Yes	No	No
3QPYNG	No	Yes	No	No	739LNR	No	Yes	No	No
3V3FKZ	No	Yes	No	No	76E4MN	No	Yes	No	No
3WG6NC	No	Yes	No	No	779UT3	No	Yes	No	No
3ZA7M7	No	Yes	No	No	7B2UAJ	No	Yes	No	No
3ZCWUN	No	Yes	No	No	7XDRQQ	No	Yes	No	No
4EQL4A	No	Yes	No	No	8BV4F7	No	Yes	No	No
4FL46B	No	Yes	No	No	8FPXD8	No	Yes	No	No
4G24MF	No	Yes	No	No	8LG6X2	No	Yes	No	No
4M3FKX	No	Yes	No	No	8PZZY8	No	Yes	No	No
4M8Z9Z	No	Yes	No	No	8UBDG7	No	Yes	No	No

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TABLE 4

WebCode	Victim (Item 1) Item 3	Victim (Item 1) Item 4	Suspect (Item 2) Item 3	Suspect (Item 2) Item 4
8XTBBN	No	Yes	No	No
97JFFA	No	Yes	No	No
9C74CZ	No	Yes	No	No
9Y2ZQ7	No	Yes	No	No
A69TL2	No	Yes	No	No
ADZBV4	No	Yes	No	No
AMM8W6	No	Yes	No	No
B3UQ92	No	Yes	No	No
B44VLQ	No	Yes	No	No
B8QEP9	No	Yes	No	No
B9MQNH	No	Yes	No	No
BBMXQ8	No Interpretations Reported, DNA Analyzed for Database purposes only.			
BHMDHZ	No	Yes	No	No
BHNBPP	No	Yes	No	No
BL8B66	No	Yes	No	No
BMH8EF	No	Yes	No	No
BNCXJV	No	Yes	No	No
BT7U9L	No	Yes	No	No
C9TUDQ	No	Yes	No	No
C9XCBP	No	Yes	No	No
CDBUT7	No Interpretations Reported, DNA Analyzed for Database purposes only.			
CEJ2XK	No	Yes	No	No
CGQJWF	No	Yes	No	No
CLF297	No	Yes	No	No
CV8EAQ	No	Yes	No	No
CYQEP8	No	Yes	No	No
D3JVE7	No	Yes	No	No
D7NLLL	No	Yes	No	No
DA7L22	No	Yes	No	No
DCC7P2	No	Yes	No	No
DLZXDE	No	Yes	No	No
DMUQ9X	No	Yes	No	No
E9TCNU	No	Yes	No	No
ECPVRD	No	Yes	No	No
EHG63C	No	Yes	No	No
EPEUJF	No	Yes	No	No
EQ9KPV	No	Yes	No	No
EQPW8Z	No	Yes	No	No
EY2VYQ	No	Yes	No	No
F9KPQD	No	Yes	No	No
FJHUF6	No	Yes	No	No
FJKJK2	No	Yes	No	No
GCYJ7A	No	Yes	No	No
GFYVZP	No	Yes	No	No
GG96Q2	No	Yes	No	No
GKCZA4	No	Yes	No	No
GL4RNV	No	Yes	No	No
H444UB	No	No	No	No

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TABLE 4

WebCode	Victim (Item 1) Item 3	Victim (Item 1) Item 4	Suspect (Item 2) Item 3	Suspect (Item 2) Item 4
HFWPWZ	No	Yes	No	No
HG8L6B	No	Yes	No	No
HKQLLQ	No	Yes	No	No
HLZTNJ	No	Yes	No	No
HMW4JM	No	Yes	No	No
HPHT4Y	No	Yes	No	No
HV876M	No	Yes	No	No
HVNGL8	No	Yes	No	No
HVNMXV	No	Yes	No	No
J6VJJD	No	Yes	No	No
J74TAP	No	Yes	No	No
J7Q3LE	No	Yes	No	No
JCEPGK	No	Yes	No	No
JKLGNU	No	Yes	No	No
JMQC6B	No	Yes	No	No
JR7MHF	No	Yes	No	No
K4TBT6	No	Yes	No	No
K7K6RU	No	Yes	No	No
K97WYQ	No	Yes	No	No
K9BDXP	No	Yes	No	No
KCQ2CU	No	Yes	No	No
KPU6WN	No	Yes	No	No
KVY48E	No	Yes	No	No
KYH3MU	No	Yes	No	No
L2LDVH	No	Yes	No	No
LAWEFH	No	Yes	No	No
LVV3KJ	No	Yes	No	No
MDFUJH	No	Yes	No	No
MFHRTQ	No	Yes	No	No
MGF3NT	No	Yes	No	No
MU2CE6	No	Yes	No	No
MW9WYY	No	Yes	No	No
MZ6JRM	No	Yes	No	No
N3U63P	No	Yes	No	No
N4HLCW	No	Yes	No	No
N4JD9J	No	Yes	No	No
N8JLCU	No	Yes	No	No
NANAU6	No	Yes	No	No
NE2VZQ	No	Yes	No	No
NGU26N	No	Yes	No	No
NLFZCN	No	Yes	No	No
NMGVZZ	No	Yes	No	No
NRUG7L	No	Yes	No	No
NV6N8Q	No	Yes	No	No
NVRXK2	No	Yes	No	No
P9CWP9	No	Yes	No	No
PEHQJ4	No	Yes	No	No
PRLU7J	No	Yes	No	No

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TABLE 4

WebCode	Victim (Item 1) Item 3	Victim (Item 1) Item 4	Suspect (Item 2) Item 3	Suspect (Item 2) Item 4
PTXNQQ	No	Yes	No	No
PXRQQJ	No	Yes	No	No
Q327XM	No	Yes	No	No
QQACPY	No	Yes	No	No
QR43VD	No	Yes	No	No
QUBKTA	No	Yes	No	No
QVFBWH	No	Yes	No	No
QYFGDA	No	Yes	No	No
R6LA86	No	Yes	No	No
R7FZDJ	No	Yes	No	No
RRXBG3	No	Yes	No	No
RZQKMR	No	Yes	No	No
TAQQVJ	No	Yes	No	No
TCFY2E	No	Yes	No	No
TRV6BT	No	Yes	No	No
TT8YUY	No	Yes	No	No
TXKK2K	No	Yes	No	No
TXY7D8	No	Yes	No	No
TYWA7H	No	Yes	No	No
TZKQFQ	No	Yes	No	No
UBZ39E	No	Yes	No	No
UH44BU	No	Yes	No	No
UHMP4K	No	Yes	No	No
UJWUG9	No	Yes	No	No
URP8EM	No	Yes	No	No
UTKQGN	No	Yes	No	No
VJANVN	No Interpretations Reported, DNA Analyzed for Database purposes only.			
VN88Y8	No	Yes	No	No
VY8XHU	No	Yes	No	No
WBCD34	No	Yes	No	No
WRJC9L	No	Yes	No	No
WXQ2QU	No	Yes	No	No
WYYD7B	No	Yes	No	No
XC6LPE	No	Yes	No	No
XDEMNA	No	Yes	No	No
XF6XLD	No	Yes	No	No
XHTDVL	No	Yes	No	No
XTCMJF	No	Yes	No	No
XULTYP	No	Yes	No	No
Y2FKH3	No	Yes	No	No
Y3DUD7	No	Yes	No	No
Y3UR4K	No	Yes	No	No
Y6XJXH	No	Yes	No	No
YGCCQY	No	Yes	No	No
YLQCMQ	No	Yes	No	No
Z6EVE3	No	Yes	No	No
Z6X2DT	No	No	No	No
ZGEJEC	No	Yes	No	No

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Response Summary

Participants reporting DNA results: 188

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)?

Responses	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4
Yes	**0**	**182**	**0**	**0**
No	**185**	**3**	**185**	**185**
Inc	**0**	**0**	**0**	**0**

Participants not reporting Interpretation results: 3

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Additional Comments

TABLE 5

WebCode	Additional Comments
2FV3QW	1)Chelex extraction method was used to extract DNA from Item 1,2,3 and 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.
2K6F8V	NR: No Results. The DYS391 results listed in the additional DNA section were developed from the PowerPlex Fusion kit.
2LZXAW	1. Item 1, Item 2, Item 3 and Item 4 were extracted using Chelex extraction method, quantified using Quant6ifiler Human DNA Quantification Kit from Applied Biosystem and carried out by Real-Time PCR. 2. Item 1, Item 2, Item 3 and Item 4 were amplified using AmpFISTR Identifiler and Yfiler PCR Kit and electrophoresis were carried out using Genetic Analyzer 3130xL. 3. Reagent blank, positive control and negative control were carried out along with the analysis.
2QR7WC	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as “Q” alleles in the results.
3744CW	Spermatozoa were observed by microscopic examination of the sperm cell fraction of item 4.
38XP89	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as “Q” alleles in the results.
3WG6NC	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as “Q” alleles in the results.
3ZCWUN	For the sperm fraction from Item 4. Two peaks were produced at DYS391. The sample was re-amplified and the same two peaks were produced and confirmed.
4G24MF	YSTR analysis was not performed on Item 1 as no male DNA was indicated in the Quantitation results. YINDEL recorded in YFILER results table was obtained using GlobalFiler.
4P93WG	A differential extraction was performed on Item 4. The epithelial fraction was not tested with the Y23 kit because no male DNA was isolated in this item.
4TCWW8	Analysis of the sperm fraction from Item 3 was discontinued due to lack of sperm cells found upon microscopy. Item 2 was amplified using the MiniFiler Kit and the results were concordant with the alleles shared by this kit and the GlobalFiler kit. The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as “Q” alleles in the results.

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TABLE 5

WebCode	Additional Comments
68A8Z6	Item 1 not analyzed for Y-STR DNA.
6YE6YT	Item 1, 2, 3 and 4 were extracted using Chelex extraction method, quantified using Quantifiler Human DNA Quantification Kit from Applied Biosystem and carried out by 7500 Real-Time PCR System. Item 1, 2, 3 and 4 were amplified using AmpFlSTR Identifiler and Yfiler PCR Kit and electrophoresis carried out using Genetic Analyzer 3130xl. Reagent blank, positive and negative control were carried out along with the analysis.
6YRYC9	@ = additional information was observed under the reporting threshold of 200 RFUs.
72D3MQ	NR = No Results. DYS391 results in "Additional DNA" section are from the PowerPlex Fusion kit.
739LNR	Item 1, Item 2 Item 3 and Item 4 were extracted using chelex extraction method, and quantified using Human DNA Quantifiler Kit on Real Time PCR 7500 System. Then, amplify using Identifiler Plus and Yfiler. Electrophoresis were carried out on Genetic Analyzer 3130xl. Reagent Blank, Positive Control and Negative Control were carried out along through analysis.
76E4MN	Item 1, Item 2 and Item 3 were extracted using organic @ Phenol/Chloroform. Item 4 was extracted using Chelex method for differential extracted. Extracted DNA samples were amplified using Applied Biosystem AmpFLSTR Identifiler Plus (STR) and Yfiler (STR) kits. separations and detection of amplified products were performed using applied Biosystems 3130xL genetic analyzer and analysis was carried out by GeneMapper ID v3.2.1 software.
7XDRQQ	NR = No Results. Data for locus DYS319 on Additional DNA page produced using the PowerPlex® Fusion Kit.
8XTBBN	Item 4e presented an elevated stutter on D21S11.
A69TL2	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as “Q” alleles in the results.
ADZBV4	@ on DNA results page indicates additional peaks observed below reporting threshold of 200 rfus. All secondary results in the ecell fraction are consistent with the sperm donor.
BHMDHZ	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as “Q” alleles in the results.
BT7U9L	Data for locus DYS391 on Additional DNA page produced using the PowerPlex Fusion kit. NR = no results
C9TUDQ	Spermatozoa were observed on differential slide.
CEJ2XK	NR= No Results. DYS391 results reported in the "Additional DNA" section are from Powerplex Fusion kit
D7NLLL	Spermatozoa were detected on a slide prepared from item 4.
EHG63C	LR item 4 : item 1 + item 2 VS 2 unknown = 1,6 x E-19. LR item 4 : item 1 + item 3 VS 2 unknown = 1,8 x E+34
EQPW8Z	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.

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TABLE 5

WebCode	Additional Comments
FJHUF6	bdl=below detection limit
GFYVZP	DYS391 locus results listed under additional DNA testing are from Powerplex Fusion analysis. Spermatozoa were microscopically identified on the cell pellet slide prepared from the dried red stain on the victim's dress pants (Item 4).
GKCZA4	**The mixed blood-semen sample (Item 4) was MUCH better than in the past - the epithelial fraction yielded a lot more DNA (and gave a more robust DNA profile) than previous tests.
HG8L6B	ELEVATED STUTTER OBSERVED ON MARKER D21S11 ITEM 4E.
HKQLLQ	Y-STR analysis was not performed on Item 1 because no male DNA was detected using Quantifiler Duo.
HLZTNJ	Female references are not analyzed with YFiler; therefore, Item 1 was not tested using YFiler.
J6VJJD	Results for DYS391 in additional DNA results are from the PowerPlex Fusion Kit. Key: NR = No Results
J74TAP	Samples which did not produce a male DNA quantity using Quantifiler Duo were not tested with Yfiler
J7Q3LE	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 Applied Biosystems 3130xL Genetic Analyzer and analysis was carried out by GeneMapper ID v3.2.1 software.
JCEPGK	Spermatozoa were observed on a slide prepared from item 4.
JKLGNU	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as “Q” alleles in the results.
JMQC6B	An elevated stutter were detected in sperm fraction of Item # 4 in vWA marker, were allele 18 was marked as an elevated stutter.
JR7MHF	(i) chelex extraction method were used for Item 1, Item 2, Item 3 and Item 4. (ii) Human DNA Quantifier Kit on Real Time PCR 7500 System were used for quantification. (iii) Identifiler Plus and Y-Filer were used for amplification. (iv) Electrophoresis were carried out on Genetic Analyzer 3130xl. (v) Reagent Blank, Positive Control and Negative Control were carried out along through analysis.
K4TBT6	1) Identification of victim genotype in item 4 is based on peak height ratio evaluation, following lab's standard operating protocols and guidelines for interpretation. 2) Male DNA source typed from Item 3 cannot be excluded as the minor contributor of Item 4 mixture. This statement is based on the fact that all of the item 3 markers are represented in the mixture as minor contributor. Moreover Y haplotype from Item 3 perfectly matched with haplotype from mixed stain (item4). Last, in the Item 4 mixture no alleles different from the ones obtained from Item 3 and Item 2 have been typed.
KVY48E	Sperm cells were detected on a smear prepared from the male fraction of item 4.
L2LDVH	Spermatozoa were observed on the slide made prepared from item 4
LAWEFH	Probabilistic genotyping (STRmix) used for data analysis stutter peaks unfiltered. Alleles comprising genotypes with weightings of 99% or greater reported. Q = possible dropout allele.
MU2CE6	The sample (Item 4 - blood) appears to have multiple extra peaks per locus, including an extra peak at Amelogenin Y-allele bin. All extra peaks, but two (VWA, allele 17 & D18S51, allele 16) are either less than 60 RFUs, which is less than the peak amplitude threshold for heterozygous loci and/or less than 15% of the highest allele in the locus, as per our standard operating procedure at the laboratory, indicating that

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TABLE 5

WebCode	Additional Comments
	these alleles originate from the minor contributor.
MZ6JRM	Y-STR DNA was not done on Item 1. Due to the S fraction being complete and consistent with the result from fraction E, the E fraction was not analyzed further to obtain results at locus DYS448.
N3U63P	The answers in this CTS test were reported using probabilistic genotyping. All alleles deemed possible for any contributor to a mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as “Q” alleles in the results.
N4HLCW	The epithelial fraction of Item 4 was not analyzed for YSTRs because no male DNA was detected in the STR (autosomal) test results.
NMGVZZ	The partial foreign DNA results in the non-sperm fraction of Item 4 did not meet the lab's minimum requirement for interpretation. No comparisons would be made using these partial foreign DNA results.
QUBKTA	Spermatozoa were observed upon examination in sample 4 male fraction.
QVFBWH	YSTR analysis was not performed on sample 1 because no male DNA was detected using Quantifiler Duo.
R6LA86	"NR" = No Results. Data for locus DYS391 on the Additional DNA page was produced using PowerPlex Fusion.
RZQKMR	No interpretation of the Y-STR data from Item 2; for databasing purposes only.
TAQQVJ	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as “Q” alleles in the results. The MiniFiler results from Item 2 were concordant with the GlobalFiler results from Item 2.
TXKK2K	Item 4 ecell Y23 profile - partial in nature due to differential extraction procedure. Quant Duo results for male (Y) DNA - 0.007ng/µl; 15µl was amplified.
TYWA7H	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as “Q” alleles in the results.
UJWUG9	Spermatozoa were detected upon microscopic examination of sample 4 sperm cell fraction.
URP8EM	BDL = below detection limit
VY8XHU	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 unknown male different from male on item 2 (suspect) 4- Differential extraction was performed for item (4). The Genetic profile of the sperm refers to unknown male same as male on item 3 not the suspect, and The Genetic profile of the blood refers to the victim.
WXQ2QU	This proficiency test was performed in parts where Forensic Scientist, [name], performed the sampling, extraction, quantitation, amplification, capillary electrophoresis separation, and DNA interpretation. Quality Assurance Manager, [name], performed the data analysis portion of this proficiency test.
XC6LPE	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the

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TABLE 5

WebCode	Additional Comments
	potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results. Item 3 was also amplified with the MiniFiler amplification kit; the MiniFiler and GlobalFiler results were concordant at the duplicate loci.
XF6XLD	The answers in this CTS report were reported using probabilistic genotyping. All alleles deemed possible for any contributor to the mixture are being reported. With probabilistic genotyping, stutter alleles are considered as either allelic or stutter during the deconvolution of samples. This sometimes results in true stutter peaks being reported as possible alleles. In addition, probabilistic genotyping also considers the potential for allele drop-out. Possible missing alleles are reported as "Q" alleles in the results.
Y2FKH3	Female reference samples are not tested for Y-STRs
Y3UR4K	No male DNA detected for Item 1 using Plexor HY.
Y6XJXH	The 25 allele reported at FGA in the epithelial fraction of Item 4 is possibly elevated stutter at 15%. Testing for the presence of human blood was performed with the ABAcard HemaTrace test kit. This kit is known to cross-react with some species of the Mustelidae family and with higher primates. Sperms cells were identified through microscopic examination.
YGCCQY	NR = NO RESULTS. Data for locus DYS391 in "DNA Analysis - Additional DNA" section generated using the PowerPlex Fusion kit.
Z6X2DT	For stain 4 - only a QA1 (post coital) extraction was done. The stain was too small for an additional cutting for blood or duplicate for semen (this was according to the cutting analyst). Evidential value at our lab will determine that semen has more value on victims clothing.

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Appendix: Data Sheet

Collaborative Testing Services ~ Forensic Testing Program

Test No. 16-584: DNA-Semen

DATA MUST BE RECEIVED BY *September 6, 2016* TO BE INCLUDED IN THE REPORT

Participant Code: WebCode:

Accreditation Release Statement

CTS submits external proficiency test data directly to ASCLD/LAB, ANAB, and A2LA. 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, ANAB, and/or A2LA. (Accreditation Release section on the last page must be completed and submitted.)

☐ This participant's data is NOT intended for submission to ASCLD/LAB, ANAB or A2LA.

Scenario:

Police are investigating the sexual assault of a female victim. According to the statements made by the victim, as she was unlocking her apartment door she was accosted from behind and forced into her apartment. The victim fought back against the attacker, and managed to hit the attacker in the face with her handbag, which lacerated the attacker's forehead and caused substantial bleeding. The attacker then produced a knife and slashed the victim causing lacerations to her hands and arms. The attacker then physically subdued the victim and forced the victim to perform oral sex, after which the perpetrator fled the scene. Several days later, a suspect was identified using the apartment building's lobby security camera footage. Testing of the victim's Sexual Assault kit has already been performed and the results were negative. Investigators are now submitting additional evidence for analysis. Screening has been performed on both evidence samples with the following results: Item 3 (victim's scarf) was positive for blood and Item 4 (victim's dress pants) were positive for blood and semen. Also submitted are the known blood samples of the victim and the suspect.

Items Submitted (Sample Pack S4):

Item 1: Known blood from the female victim (white cloth)

Item 2: Known blood from the male suspect (white cloth)

Item 3: Questioned stain from victim's scarf (pink material)

Item 4: Questioned stain from victim's dress pants (dark grey material with white bow print)

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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**

Please return all pages of this data sheet.

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Part I (continued): DNA Results for Known Item1

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.).

☐ COfiler®/Profiler Plus®_____ ☐ PowerPlex® _____

☐ Identifiler® _____ Other_____

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
1						

ITEM	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
1						

ITEM	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
1						

ITEM	Penta D	Penta E	SE33	TH01	TPOX	vWA
1						

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.).

☐ Yfiler® _____ ☐ PowerPlex® Y _____

Other _____

ITEM	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
1								

ITEM	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
1								

ITEM	DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	Y Indel
1							

Please return all pages of this data sheet.

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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						

ITEM	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
2						

ITEM	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
2						

ITEM	Penta D	Penta E	SE33	TH01	TPOX	vWA
2						

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								

ITEM	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
2								

ITEM	DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	Y Indel
2							

Please return all pages of this data sheet.

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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.).

☐ COfiler®/Profiler Plus® _____ ☐ PowerPlex® _____

☐ Identifiler® _____ Other _____

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
3						

ITEM	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
3						

ITEM	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
3						

ITEM	Penta D	Penta E	SE33	TH01	TPOX	vWA
3						

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.).

☐ Yfiler® _____ ☐ PowerPlex® Y _____

Other _____

ITEM	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
3								

ITEM	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
3								

ITEM	DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	Y Indel
3							

Please return all pages of this data sheet.

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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.).

☐ COfiler®/Profiler Plus® _____ ☐ PowerPlex® _____

☐ Identifiler® _____ 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.).

☐ Yfiler® _____ ☐ PowerPlex® Y _____

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							

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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)?

	Victim (Item 1)		***Suspect (Item 2)***	
	Item 3	**Item 4**	**Item 3**	**Item 4**
Yes	☐	☐	☐	☐
No	☐	☐	☐	☐
Inconclusive	☐	☐	☐	☐

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.

Return Instructions: Data must be received via online data entry, fax (please include a cover sheet), or mail by *September 06, 2016* to be included in the report. Emailed data sheets are not accepted.

QUESTIONS?
TEL: +1-571-434-1925 (8 am - 4:30 pm EST)
EMAIL: forensics@cts-interlab.com
www.ctsforensics.com

Participant Code:

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

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. **16-584: DNA-Semen**

This release page must be completed and received by ***September 6, 2016*** to have this participant's submitted data included in the reports forwarded to the respective Accreditation Bodies.

Have the laboratory's designated individual complete the following steps
only if your laboratory is accredited in this testing/calibration discipline
by one or more of the following Accreditation Bodies.

Step 1: Provide the applicable Accreditation Certificate Number(s) for your laboratory

ASCLD/LAB Certificate No. _____

ANAB Certificate No. _____

A2LA Certificate No. _____

Step 2: Complete the Laboratory Identifying Information in its entirety

Signature and Title _____

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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