



## **DNA-Semen Test No. 21-5804**

### **Summary Report**

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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 210 participants and are compiled into the following tables:

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

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

## **Manufacturer's Information**

Each sample pack consisted of two known bloodstains on white cloth (Items 1 & 2), and two questioned stains; one on clean pink fabric (Item 3) and one on clean, off-white fabric (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 using human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. The stain in Item 4 was a mixture prepared from human whole blood and semen. The semen sample was first thawed and mixed 1:1 with TAE buffer, then mixed 1:1 with the blood. Item 1 (50  $\mu$ l) was created using blood collected from a female donor. Item 2 (50  $\mu$ l) was created using blood collected from a male donor. Item 3 (50  $\mu$ l) was created using blood from a female donor, but one different than that of Item 1. Item 4 (50  $\mu$ l) was created using a 1:1 mixture of blood from the female donor used in Item 1 and semen from the male donor used in Item 2. 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 6, 2021 following receipt of predistribution results.

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

**VERIFICATION:** All predistribution laboratories confirmed the manufacturer's expected associations. Consistent allelic results were reported for all STR and YSTR loci.

## Manufacturer's Information, continued

<b>Amelogenin and STR Results</b>						
<i>Results compiled from predistribution laboratories and a consensus of at least 10 participants.</i>						
<b>Item</b>	<b>D1S1656</b>	<b>D2S1338</b>	<b>D2S441</b>	<b>D3S1358</b>	<b>D5S818</b>	<b>D6S1043</b>
	<b>D7S820</b>	<b>D8S1179</b>	<b>D10S1248</b>	<b>D12S391</b>	<b>D13S317</b>	<b>D16S539</b>
	<b>D18S51</b>	<b>D19S433</b>	<b>D21S11</b>	<b>D22S1045</b>	<b>Amelogenin</b>	<b>CSF1PO</b>
	<b>FGA</b>	<b>Penta D</b>	<b>Penta E</b>	<b>SE33</b>	<b>TH01</b>	<b>TPOX</b>
	<b>vWA</b>	<b>DYS391</b>	<b>DYS570</b>	<b>DYS576</b>	<b>Y Indel</b>	
1	12,16	19,20	13,14	16,18	12,12	*
	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21	9,12	7,17	16,17	6,7	8,11
	16,16	NM	NM	NM	NM	
2	12,17	17,20	10,14	16,17	11,11	*
	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24	11,11	7,14	12,22.2	6,9	8,8
	16,18	11	20	18	2	
3	15,17.3	18,20	10,11	15,18	10,11	*
	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31,32.2	15,16	X,X	12,12
	19,26	9,10	11,11	20,29.2	8,9	8,9
	18,18	NM	NM	NM	NM	
4-Blood	12,16	19,20	13,14	16,18	12,12	*
	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21	9,12	7,17	16,17	6,7	8,11
	16,16	NM	NM	NM	NM	
4-Semen	12,17	17,20	10,14	16,17	11,11	*
	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24	11,11	7,14	12,22.2	6,9	8,8
	16,18	11	20	18	2	

<b>YSTR Results</b>									
<i>Results compiled from predistribution laboratories and a consensus of at least 10 participants.</i>									
<b>Item</b>	<b>DYF387S1</b>	<b>DYS19</b>	<b>DYS385</b>	<b>DYS389-I</b>	<b>DYS389-II</b>	<b>DYS390</b>	<b>DYS391</b>	<b>DYS392</b>	<b>DYS393</b>
	<b>DYS437</b>	<b>DYS438</b>	<b>DYS439</b>	<b>DYS448</b>	<b>DYS449</b>	<b>DYS456</b>	<b>DYS458</b>	<b>DYS460</b>	<b>DYS481</b>
	<b>DYS518</b>	<b>DYS533</b>	<b>DYS549</b>	<b>DYS570</b>	<b>DYS576</b>	<b>DYS627</b>	<b>DYS635</b>	<b>DYS643</b>	<b>Y GATA H4</b>
2	38,38	15	11,15	13	29	24	11	11	13
	14	11	10	19	33	16	15	11	23
	42	12	12	20	18	16	24	10	13
4-Semen	38,38	15	11,15	13	29	24	11	11	13
	14	11	10	19	33	16	15	11	23
	42	12	12	20	18	16	24	10	13

\* Results were not received by a minimum of 10 participants for the loci indicated.

NM - Non-Male profile, YSTR results not expected.

## **Summary Comments**

The 21-5804 DNA-Semen test is part of the DNA Sample Specific Series, where participants are advised of the body fluid(s) that made up the questioned stains. The test is designed to allow participants to assess their proficiency in the analysis of dried stains. Participants were supplied with two "known" bloodstains (Items 1 and 2) and two "questioned" stains (Items 3 and 4). Item 1 was created using blood collected from a female donor. Item 2 was created using blood collected from a male donor. Item 3 was created using blood from a female donor different from Item 1. Item 4 was created using a mixture of blood from the female donor used in Item 1 and semen from the male donor used in Item 2. (See Manufacturer's Information for preparation details)

Of the 210 participants that returned results, 197 reported DNA interpretations. Three participants did not respond, three stated that the samples were analyzed for database purposes only, and seven selected the "No Interpretations" option individually for all Interpretation questions.

For the Item 3 stain, all of the 195 responding participants excluded the victim (Item 1) and the suspect (Item 2) as possible contributors.

For the Item 4 stain, 188 participants included the victim (Item 1) and five excluded the victim as a possible contributor. Two participants reported "inconclusive" as to whether the victim was a possible contributor. All 197 responding participants included the suspect (Item 2) as a possible contributor to the Item 4 stain.

A total of 37 participants reported the use of Probabilistic Genotyping (PG) software on either solely the questioned items or all four items. Five of these participants reported additional alleles at several loci. Based on the interpretations described above, these inconsistencies did not appear to affect participant's conclusions.

Twenty-one additional participants reported allelic responses that differed from the consensus/predistribution results for one or more items. The breakdown of inconsistencies is as follows: six reported additional alleles, thirteen were missing alleles at one or more loci, and two reported allelic results that differed from the consensus. Most alleles were missed for the Item 4 mixture stain where the participant reported the full mixture profile (i.e., did not appear to separate the epithelial and sperm fractions). Of this grouping of participants, all were missing alleles from what was reported to be the consensus profile of the epithelial fraction.

# STR Amplification Kit(s) & Results

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

22CB48	Identifiler® Plus					
		19,20		16,18	12,12	
1		10,10	13,15		11,12	11,11
		14,18	14,14.2	29,29	X,X	7,12
		20,21			6,7	8,11
		16,16				
24DP2W	PowerPlex® Fusion					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17		6,7
		16	NR			8,11
26TPJZ	PowerPlex® Fusion 5C					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	OL,X,X
		20,21	9,12	7,17		6,7
		16,16				8,11
2A963Q	PowerPlex® Fusion					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17		6,7
		16				8,11
2FUAPZ	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16				8,11
2JDCHQ	PowerPlex® Fusion 6C					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17	16,17	6,7
		16				8,11

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

2LY79Z	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16				8,11
2UVWZ2	Investigator® 24plex					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16				8,11
3A3BWP	PowerPlex® Fusion 6C					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17	16,17	6,7
		16				8,11
3A4BV6	Investigator® 24plex					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16				8,11
3F9A7U	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16	NR			8,11
						NR
3JR2GW	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16	NR			8,11
						NR
3LDYKT	Identifiler® Plus					
			19,20		16,18	12
1		10	13,15			11,12
		14,18	14,14.2	29		X,X
		20,21				6,7
		16				8,11

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

3UAL2T	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16	NR			NR
49KXGR	Identifiler® Plus					
			19,20		16,18	12
1		10	13,15			11,12
		14,18	14,14.2	29		X,X
		20,21				6,7
		16				8,11
4BTW4L	PowerPlex® Fusion 5C					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17		6,7
		16				8,11
4BTYTQ	PowerPlex® Fusion 6C					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17	16,17	6,7
		16				8,11
4ERANQ	PowerPlex® Fusion 6C					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17	16,17	6,7
		16				8,11
4U4QVT	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16	NR			NR
4UJAD6	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16				8,11

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

4VH8ZT	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X,X
		20,21			16,17	6,7
		16	NM			NM
63F2NJ	PowerPlex® Fusion					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17		6,7
		16				8,11
678KDV	PowerPlex® Fusion 6C (STRmix)					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17	16,17	6,7
		16				8,11
6DBH9E	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11
6F49JY	Investigator® 24plex					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16				8,11
6KX4HL	PowerPlex® Fusion					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17		6,7
		16				8,11
6NXEAF	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

6T66DL	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11
6YGTDH	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11
79YU9H	PowerPlex® Fusion					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17		6,7
		16				8,11
7GR3VU	PowerPlex® Fusion 5C					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21	9,12	7,17		6,7
		16,16				8,11
7H42P3	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16				8,11
7QZUZH	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X,X
		20,21			16,17	6,7
		16	NR			NR
7UA2BU	PowerPlex® Fusion 5C					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21	9,12	7,17		6,7
		16,16				8,11

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

7UXHDJ	PowerPlex® Fusion 5C					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17		6,7	8,11
	16					
7WMJKR	PowerPlex® Fusion 5C					
	12,16	19,20	13,14	16,18	12,12	
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21	9,12	7,17		6,7	8,11
	16,16					
7ZMVGR	PowerPlex® Fusion 5C					
	12,16	19,20	13,14	16,18	12,12	
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21	9,12	7,17		6,7	8,11
	16,16					
86BQTV	Identifiler® Plus, Investigator® 24plex GO					
	12,16	19,20	13,14	16,18	12,12	N/A
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21	N/A	N/A	16,17	6,7	8,11
	16,16	N/A	N/A	N/A	N/A	
8APEB8	GlobalFiler™ Express					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16	NR			NR	
8MCQKW	GlobalFiler™ (mRMP by Familias 3)					
	12,16	19,20	13,14	16,18	12,12	
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21			16,17	6,7	8,11
	16,16					
93MMMV	Investigator® 24plex					
	12,16	19,20	13,14	16,18	12,12	
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21			16,17	6,7	8,11
	16,16					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

94G9E2	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16				8,11
96PJ9J	PowerPlex® Fusion 6C					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17	16,17	6,7
		16				8,11
97YK6Q	PowerPlex® Fusion					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17		6,7
		16	NR			8,11
9C6DYL	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11
9D2PYV	Identifiler®, PowerPlex® CS7, Investigator HDplex, SureID 23Comp					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29		X,X
		20,21	9,12	7,17	16,17	6,7
		16,16				8,11
9FNE8F	PowerPlex® Fusion 5c					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17		6,7
		16				8,11
9GFGRA	GlobalFiler™ Express					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16	NR			8,11
						NR

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

9JNP3E	PowerPlex® Fusion					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17	6,7	8,11
		16				
9KJ96G	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X,X
		20,21			16,17	6,7
		16	NR			NR
9LC2ZY	Identifiler® Plus					
			19,20		16,18	12,12
1		10,10	13,15			11,12
		14,18	14,14.2	29,29		X,X
		20,21				6,7
		16,16				8,11
9LU2UN	PowerPlex® ESX					
		12,16	19,20	13,14	16,18	
1			13,15	13,14	19,20	11
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				
9NKBUH	PowerPlex® Fusion 5C					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17	6,7	8,11
		16				
9U7DT8	GlobalFiler™ Express					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	NT	NT	16,17	6,7
		16	NR	NT	NT	NR
9WBN4P	PowerPlex® Fusion					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17	6,7	8,11
		16				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

9WHTM9	GlobalFiler™ Express					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16	No results			No results	
AAGCG6	GlobalFiler™ Direct					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					
ALUCDY	GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					
B6GA6N	PowerPlex® Fusion 5C					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17		6,7	8,11
	16	NR				
B7ETWH	PowerPlex® Fusion 6C					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17	16,17	6,7	8,11
	16					
BCHPQQ	PowerPlex® Fusion 5C					
	12,16	19,20	13,14	16,18	12,12	
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21	9,12	7,17		6,7	8,11
	16,16					
BFLBQA	GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

BJLW6	GlobalFiler™ Direct						
		12,16	19,20	13,14	16,18	12	
	1	10	13,15	13,14	19,20	11,12	11
		14,18	14,14.2	29	15	X	7,12
		20,21			16,17	6,7	8,11
	16						
BNCU73	GlobalFiler™, ArgusX-12						
		12,16	19,20	13,14	16,18	12	
	1	10	13,15	13,14	19,20	11,12	11
		14,18	14,14.2	29	15	X	7,12
		20,21			16,17	6,7	8,11
	16						
BPQKVD	PowerPlex® Fusion						
		12,16	19,20	13,14	16,18	12	
	1	10	13,15	13,14	19,20	11,12	11
		14,18	14,14.2	29	15	X	7,12
		20,21	9,12	7,17		6,7	8,11
	16						
BRFM3M	PowerPlex® Fusion 5C						
		12,16	19,20	13,14	16,18	12,12	
	1	10,10	13,15	13,14	19,20	11,12	11,11
		14,18	14,14.2	29,29	15,15	X,X	7,12
		20,21	9,12	7,17		6,7	8,11
	16,16						
BRT6WR	Investigator® 24plex GO!						
		12,16	19,20	13,14	16,18	12,12	N/A
	1	10,10	13,15	13,14	19,20	11,12	11,11
		14,18	14,14.2	29,29	15,15	X,X	7,12
		20,21	N/A	N/A	16,17	6,7	8,11
	16,16	N/A	N/A	N/A	N/A		
BVW48K	Investigator® 24plex GO						
		12,16	19,20	13,14	16,18	12,12	N/A
	1	10,10	13,15	13,14	19,20	11,12	11,11
		14,18	14,14.2	29,29	15,15	X,X	7,12
		20,21	N/A	N/A	16,17	6,7	8,11
	16,16	N/A	N/A	N/A	N/A		
BW79JN	PowerPlex® Fusion						
		12,16	19,20	13,14	16,18	12	
	1	10	13,15	13,14	19,20	11,12	11
		14,18	14,14.2	29	15	X	7,12
		20,21	9,12	7,17		6,7	8,11
	16	NR					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

C44BBR	PowerPlex® Fusion 6C					
	12,16	19,20	13,14	16,18	12,12	
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21	9,12	7,17	16,17	6,7	8,11
	16,16					
CFDTYN	GlobalFiler™					
	12,16	19,20	13,14	16,18	12,12	
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21			16,17	6,7	8,11
	16,16					
CGA66P	PowerPlex® Fusion 6C					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17	16,17	6,7	8,11
	16					
CL2HER	GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X,X	7,12
	20,21			16,17	6,7	8,11
	16					
CUVGED	PowerPlex® Fusion 5C					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17		6,7	8,11
	16					
CXDVMK	GlobalFiler™					
	12,16	19,20	13,14	16,18	12,12	
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21			16,17	6,7	8,11
	16,16	NR			NR	
D2TNBR	GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

DBGGPA	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X,X
		20,21			16,17	6,7
		16	NR			NR
DFQNZM	NGM					
		12,16	19,20	13,14	16,18	
1		10	13,15	13,14	19,20	11,11
		14,18	14,14.2	29,29	15,15	X,X
		20,21				6,7
		16,16				
DMTNLA	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11
DX9LJL	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16	-			-
E3MVWG	GlobalFiler™ (STRmix)					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11
E99V73	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11
EGZ7K4	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

EPEZRT	Investigator® 24plex					
	12,16	19,20	13,14	16,18	12,12	
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21			16,17	6,7	8,11
	16,16	ND				
EWVND9	GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X,X	7,12
	20,21			16,17	6,7	8,11
	16					
F6LGDL	GlobalFiler™					
	12,16	19,20	13,14	16,18	12,12	
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21			16,17	6,7	8,11
	16,16					
FFNP3J	GlobalFiler™					
	12,16	19,20	13,14	16,18	12,12	
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21			16,17	6,7	8,11
	16,16	NR			NR	
FKE2Z2	GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X,X	7,12
	20,21			16,17	6,7	8,11
	16					
FLP2YG	PowerPlex® Fusion 6C					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17	16,17	6,7	8,11
	16					
FNVFHF	PowerPlex® Fusion					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17		6,7	8,11
	16	NR				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

FQ4E4A	GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X,X	7,12
	20,21			16,17	6,7	8,11
	16					
FT4YEM	PowerPlex® Fusion, GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X,X	7,12
	20,21	9,12	7,17	16,17	6,7	8,11
	16					
FU3X23	GlobalFiler™ Direct					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					
FZ9QVX	GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					
GEBEPC	PowerPlex® Fusion 6C					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17	16,17	6,7	8,11
	16					
GJKLK	GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					
GYBR9J	PowerPlex® 16					
				16,18	12,12	
1	10,10	13,15			11,12	11,11
	14,18		29,29		X,X	7,12
	20,21	9,12	7,17		6,7	8,11
	16,16					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

HDUHXD	PowerPlex® Fusion 6C					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17	16,17	6,7	8,11
	16					
HFXHU4	GlobalFiler™, Argus X-12					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					
HK7Y6D	GlobalFiler™ (STRMIX)					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					
HTKM2Z	PowerPlex® Fusion 6C					
	12,16	19,20	13,14	16,18	12,12	
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21	9,12	7,17	16,17	6,7	8,11
	16,16	ND	ND	ND		
HXFECH	GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16	-			-	
J4EHEL	GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					
J6URJF	GlobalFiler™					
	12,16	19,20	13,14	16,18	12,12	
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21			16,17	6,7	8,11
	16,16					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

J7PAKG	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X,X
		20,21			16,17	6,7
		16				8,11
JA6VC4	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11
JDHP7E	PowerPlex® Fusion					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17		6,7
		16	NR			8,11
JG9JBW	GlobalFiler™ Express					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16	No Results			No Results
JKAKFY	PowerPlex® Fusion 6C					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17	16,17	6,7
		16				8,11
JYL7VJ	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16				8,11
KK4QCJ	GlobalFiler™ IQC					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16				8,11

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

KLWLW8	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11
KN428J	PowerPlex® Fusion 6C					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21	9,12	7,17	16,17	6,7
		16,16				8,11
KNLBWE	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16	NR			NR
KPVXR8	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11
KWBLKN	ID+					
			19,20		16,18	12
1		10	13,15			11,12
		14,18	14,14.2	29		X
		20,21				6,7
		16				8,11
L6N8U4	PowerPlex® Fusion					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17		6,7
		16				8,11
LDFP67	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16	--			--

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

LHQPFB	PowerPlex® 21, GlobalFiler™					
	12,16	19,20	13,14	16,18	12	17
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17	16,17	6,7	8,11
	16					
LLRVUG	GlobalFiler™ (TrueAllele)					
	12,16	19,20	13,14	16,18	12,12	
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21			16,17	6,7	8,11
	16,16					
LXLP6	PowerPlex® Fusion					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17		6,7	8,11
	16					
LXMWWL	Investigator® 24plex					
	12,16	19,20	13,14	16,18	12,12	
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21			16,17	6,7	8,11
	16,16					
M3X9EK	GlobalFiler™					
	12,16	19,20	13,14	16,18	12,12	
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21			16,17	6,7	8,11
	16,16	NR			NR	
M86WPZ	PowerPlex® Fusion					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17		6,7	8,11
	16					
MJFFZF	NGM SElect					
	12,16	19,20	13,14	16,18	N/A	N/A
1	N/A	13,15	13,14	19,20	N/A	11,11
	14,18	14,14.2	29,29	15,15	X,X	N/A
	20,21	N/A	N/A	16,17	6,7	N/A
	16,16	N/A	N/A	N/A	N/A	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

MPA463	PowerPlex® Fusion					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17		6,7
		16				8,11
MTM7TJ	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16	NR			NR
MUJGNL	GlobalFiler™ (STRmix)					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11
MVD693	PowerPlex® Fusion					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17		6,7
		16				8,11
N84JJJ	Identifiler® Plus					
			19,20		16,18	12,12
1		10,10	13,15			11,12
		14,18	14,14.2	29,29		X,X
		20,21				6,7
		16,16				8,11
N8HRND	PowerPlex® Fusion 6C					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17	16,17	6,7
		16				8,11
NAKWYD	PowerPlex® Fusion 5C					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21	9,12	7,17		6,7
		16,16				8,11

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

NG9BBY	GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					
NMYLKW	GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					
NGGZQH	Investigator® 24plex QS					
	12,16	19,20	13,14	16,18	12,12	
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21			16,17	6,7	8,11
	16,16					
NVCUQ6	PowerPlex® Fusion 6C					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17	16,17	6,7	8,11
	16					
NW4TZW	GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					
NW6H9Z	GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X,X	7,12
	20,21			16,17	6,7	8,11
	16	NR			NR	
NY8LY2	PowerPlex® Fusion					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17		6,7	8,11
	16					



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

NZ34WW	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11
PEHQHZ	PowerPlex® Fusion 5C					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17		6,7
		16				8,11
PFWTRT	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11
PK78CD	Investigator® 24plex					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16				8,11
PMR6EA	PowerPlex® Fusion 6C					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17	16,17	6,7
		16				8,11
PTGFTE	NGM SElect					
		12,16	19,20	13,14	16,18	
1			13,15	13,14	19,20	11,11
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16				
PWFYQ7	Identifiler® Plus					
			19,20		16,18	12,12
1		10,10	13,15			11,12
		14,18	14,14.2	29,29		X,X
		20,21				6,7
		16,16				8,11

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

PYN2M4	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16				8,11
Q4ETCC	Investigator® 24plex					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16				8,11
QBV6QC	Investigator® 24plex QS					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16				8,11
QXAXQQ	GlobalFiler™ (STRMix)					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11
R4W327	PowerPlex® Fusion 5C					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21	9,12	7,17		6,7
		16,16	N/A			8,11
RAJU9Y	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11
RHAJJ9	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16	F,F			8,11
						F,F

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

RZNXZ3	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X,X
		20,21	--	--	16,17	6,7
		16	NM	--	--	NM
T4BN9M	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11
THMBA4	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X,X
		20,21			16,17	6,7
		16	NM			NM
TL8FRY	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16	--			--
TMZ6CF	PowerPlex® PP21					
		12,16	19,20		16,18	12,12
1		10,10	13,15		19,20	11,12
		14,18	14,14.2	29,29		X,X
		20,21	9,12	7,17		6,7
		16,16				8,11
TW9Y89	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11
TXZ2TN	GlobalFiler™ Express					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16	No results			No results

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

U848RW	PowerPlex® Fusion 5C					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17		6,7	8,11
	16					
U84AG2	PowerPlex® Fusion 6C					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17	16,17	6,7	8,11
	16					
U8JTXR	GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					
U8MBZW	PowerPlex® Fusion					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17		6,7	8,11
	16					
UB2Y99	Investigator® 24plex GO!					
	12,16	19,20	13,14	16,18	12,12	N/A
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21	N/A	N/A	16,17	6,7	8,11
	16,16	N/A	N/A	N/A	N/A	
UDQ3PU	PowerPlex® Fusion					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17		6,7	8,11
	16					
UMFMUR	GlobalFiler™ Direct					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

UMXWL8	GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					
UMXWMT	PowerPlex® Fusion					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17		6,7	8,11
	16					
UNPZ9M	GlobalFiler™ Express					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16	No Result			No Result	
UTH4VZ	GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					
UTZ9FJ	GlobalFiler™, Argus X-12					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					
VD7R37	PowerPlex® Fusion 5C					
	12,16	19,20	13,14	16,18	12,12	
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21	9,12	7,17		6,7	8,11
	16,16					
VRJFXM	GlobalFiler™ Express					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16	NR			NR	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

VY3J34	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16				8,11
VZF7M4	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16	NR			8,11
						NR
W67PDZ	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X,X
		20,21	-	-	16,17	6,7
		16	NM	-	-	8,11
						NM
WBVHBL	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11
WK2886	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16				8,11
WKJBMH	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11
WN2HYX	PowerPlex® Fusion 5C					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21	9,12	7,17		6,7
		16	NR			8,11

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

WYWNW3	PowerPlex® CS7, ESX17, Fusion, GlobalFiler™, Verifiler Plus (GeneMapper™ ID-X 1,6 Client)					
	12,16	19,20	13,14	16,18	12	17
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17	16,17	6,7	8,11
	16					
X2KFQK	GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					
XM7AG7	PowerPlex® Fusion 6C					
	12,16	19,20	13,14	16,18	12,12	
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21	9,12	7,17	16,17	6,7	8,11
	16,16					
XULNLX	PowerPlex® Fusion 6C					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17	16,17	6,7	8,11
	16					
XVZYT	GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					
XWRF8J	GlobalFiler™ Express					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16	No results			No results	
XZTEN4	PowerPlex® Fusion 6C					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17	16,17	6,7	8,11
	16					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

Y3DQYT	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16	--			--
Y3ZWMY	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16	NR			NR
Y7DWFJ	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11
YE863V	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16	NR			NR
YFM4KZ	PowerPlex® Fusion 5C					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21	9,12	7,17		6,7
		16,16				8,11
YKDJ7L	GlobalFiler™					
		12,16	19,20	13,14	16,18	12
1		10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29	15	X
		20,21			16,17	6,7
		16				8,11
YKDNF3	GlobalFiler™					
		12,16	19,20	13,14	16,18	12,12
1		10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21			16,17	6,7
		16,16				8,11



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 1 - STR Results

YNRBXE	GlobalFiler™ Direct					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					
YXKLAV	PowerPlex® Fusion 6C					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17	16,17	6,7	8,11
	16					
Z7RN7F	GlobalFiler™ Direct					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					
ZCHXDT	GlobalFiler™					
	12,16	19,20	13,14	16,18	12,12	
1	10,10	13,15	13,14	19,20	11,12	11,11
	14,18	14,14.2	29,29	15,15	X,X	7,12
	20,21			16,17	6,7	8,11
	16,16	--			--	
ZGPLVZ	PowerPlex® Fusion 6C					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21	9,12	7,17	16,17	6,7	8,11
	16					
ZLLAAM	GlobalFiler™					
	12,16	19,20	13,14	16,18	12	
1	10	13,15	13,14	19,20	11,12	11
	14,18	14,14.2	29	15	X	7,12
	20,21			16,17	6,7	8,11
	16					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

22CB48	Identifiler® Plus					
		17,20		16,17	11,11	
2		8,11	10,15		8,12	10,11
		11,13	13,14	31,32.2	X,Y	10,10
		24,24			6,9	8,8
		16,18				
24DP2W	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24	11	7,14	6,9	8
		16,18	11			
26TPJZ	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12
		11,13	13,14	29,31,32.2	11,15	OL,X,Y
		24,24	11,11	7,14	6,9	8,8
		16,18	11			
2A963Q	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24	11	7,14	6,9	8
		16,18	11			
2FUAPZ	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24,24			12,22.2	6,9
		16,18	11			2
2JDCHQ	PowerPlex® Fusion 6C					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24	11	7,14	12,22.2	6,9
		16,18	11	20	18	8
2LY79Z	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24,24			12,22.2	6,9
		16,18	11			2

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

2UVWZ2	Investigator® 24plex					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			
3A3BWP	PowerPlex® Fusion 6C					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	12,22.2	6,9 8
		16,18	11	20	18	
3A4BV6	Investigator® 24plex					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			
3F9A7U	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
3JR2GW	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
3LDYKT	Identifiler® Plus					
			17,20		16,17	11
2		8,11	10,15			8,12 10,11
		11,13	13,14	31,32.2		X,Y 10
		24				6,9 8
		16,18				
3UAL2T	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

49KXGR	Identifiler® Plus					
		17,20		16,17	11	
2		8,11	10,15		8,12	10,11
		11,13	13,14	31,32.2	X,Y	10
		24			6,9	8
		16,18				
4BTW4L	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24	11	7,14	6,9	8
		16,18	11			
4BTYTQ	PowerPlex® Fusion 6C					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24	11	7,14	12,22.2	6,9
		16,18	11	20	18	
4ERANQ	PowerPlex® Fusion 6C					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24	11	7,14	12,22.2	6,9
		16,18	11	20	18	
4U4QVT	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24,24			12,22.2	6,9
		16,18	11			8,8
					2	
4UJAD6	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24,24			12,22.2	6,9
		16,18	11			8,8
					2	
4VH8ZT	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12
		11,13	13,14	31,31.2	11,15	X,Y
		24			12,22.2	6,9
		16,18	11			8
					2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

63F2NJ	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	6,9	8
		16,18	11			
678KDV	PowerPlex® Fusion 6C (STRmix)					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	12,22.2	6,9 8
		16,18	11	20	18	
6DBH9E	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11		2	
6F49JY	Investigator® 24plex					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			
6KX4HL	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	6,9	8
		16,18	11			
6NXEAF	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11		2	
6T66DL	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11		2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

6YGTDH	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
79YU9H	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14		6,9 8
		16,18	11			
7GR3VU	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24	11,11	7,14		6,9 8,8
		16,18	11			
7H42P3	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
7QZUZH	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
7UA2BU	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24	11,11	7,14		6,9 8,8
		16,18	11			
7UXHDJ	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14		6,9 8
		16,18	11			

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

7WMJKR	PowerPlex® Fusion 5C					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24	11,11	7,14		6,9	8,8
	16,18	11				
7ZMVGR	PowerPlex® Fusion 5C					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24	11,11	7,14		6,9	8,8
	16,18	11				
86BQTV	Identifiler® Plus, Investigator® 24plex QS					
	12,17	17,20	10,14	16,17	11,11	N/A
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24	N/A	N/A	12,22.2	6,9	8,8
	16,18	11	N/A	N/A	N/A	
8APEB8	GlobalFiler™ Express					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
8MCQKW	GlobalFiler™ (mRMP by Familias3)					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11			2	
93MMMV	Investigator® 24plex					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11				
94G9E2	GlobalFiler™					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

96PJ9J	PowerPlex® Fusion 6C					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18		
97YK6Q	PowerPlex® Fusion					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				
9C6DYL	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
9D2PYV	Identifiler®, PowerPlex® CS7, Investigator HDplex, SureID 23Comp					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2		X,Y	10,10
	24,24	11,11	7,14	12,22.2	6,9	8,8
	16,18					
9FNE8F	PowerPlex® Fusion 5c					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				
9GFGRA	GlobalFiler™ Express					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
9JNP3E	PowerPlex® Fusion					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

9KJ96G	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
9LC2ZY	Identifiler® Plus					
			17,20		16,17	11,11
2		8,11	10,15			8,12 10,11
		11,13	13,14	31,32.2		X,Y 10,10
		24,24				6,9 8,8
		16,18				
9LU2UN	PowerPlex® ESX					
		12,17	17,20	10,14	16,17	
2			10,15	15	15,22	10,11
		11,13	13,14	31,32.2	11,15	X,Y
		24			12,22.2	6,9
		16,18				
9NKBUH	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14		6,9 8
		16,18	11			
9U7DT8	GlobalFiler™ Express					
		12,17	17,20	10,14	16,17	11 NT
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	NT	NT	12,22.2	6,9 8
		16,18	11	NT	NT	2
9WBN4P	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14		6,9 8
		16,18	11			
9WHTM9	GlobalFiler™ Express					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

AAGCG6	GlobalFiler™ Direct					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
ALUCDY	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
B6GA6N	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14		6,9 8
		16,18	11			
B7ETWH	PowerPlex® Fusion 6C					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	12,22.2	6,9 8
		16,18	11	20	18	
BCHPQQ	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24	11,11	7,14		6,9 8,8
		16,18	11			
BFLBQA	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
BJLW6	GlobalFiler™ Direct					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

BNCU73	GlobalFiler™, ArgusX-12					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
BPQKVD	PowerPlex® Fusion					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				
BRFM3M	PowerPlex® Fusion 5C					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24	11,11	7,14		6,9	8,8
	16,18	11				
BRT6WR	Investigator® 24plex QS, FLEX PLEX					
	12,17	17,20	10,14	16,17	11,11	N/A
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24	N/A	7,14	12,22.2	6,9	8,8
	16,18	11	N/A	18	N/A	
BVW48K	Investigator® 24plex QS, FlexPlex 27					
	12,17	17,20	10,14	16,17	11,11	12,18
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24	n/a	7,14	12,22.2	6,9	8,8
	16,18	11	20	18	N/A	
BW79JN	PowerPlex® Fusion					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				
C44BBR	PowerPlex® Fusion 6C					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24	11,11	7,14	12,22.2	6,9	8,8
	16,18	11	20	18		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

CFDTYN	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
CGA66P	PowerPlex® Fusion 6C					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	12,22.2	6,9 8
		16,18	11	20	18	
CL2HER	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
CUVGED	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14		6,9 8
		16,18	11			
CXDVMK	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
D2TNBR	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
DBGGPA	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

DFQNZM	NGM					
		12,17	17,20	10,14	16,17	
2			10,15	15,15	15,22	10,11
		11,13	13,14	31,32.2	11,15	X,Y
		24,24			6,9	
		16,18				
DMTNLA	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11		2	
DX9LJL	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11		2	
E3MVWG	GlobalFiler™ (STRmix)					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11		2	
E99V73	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11		2	
EGZ7K4	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11		2	
EPEZRT	Investigator® 24plex					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

EWWND9	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
	2	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
	16,18	11			2	
F6LGDL	PowerPlex®, GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
	2	8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
	16,18	11			2	
FFNP3J	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
	2	8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
	16,18	11			2	
FKE2Z2	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
	2	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
	16,18	11			2	
FLP2YG	PowerPlex® Fusion 6C					
		12,17	17,20	10,14	16,17	11
	2	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	12,22.2	6,9 8
	16,18	11	20	18		
FNVFHF	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
	2	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14		6,9 8
	16,18	11				
FQ4E4A	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
	2	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
	16,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

FT4YEM	PowerPlex® Fusion, GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14	12,22.2	6,9	8
	16,18	11			2	
FU3X23	GlobalFiler™ Direct					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
FZ9QVX	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
GEBEPC	PowerPlex® Fusion 6C					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18		
GJKXLK	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
GYBR9J	PowerPlex® 16					
				16,17	11,11	
2	8,11	10,15			8,12	10,11
	11,13		31,32.2		X,Y	10,10
	24,24	11,11	7,14		6,9	8,8
	16,18					
HDUHXD	PowerPlex® Fusion 6C					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

HFXHU4	GlobalFiler™, Argus X-12					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
HK7Y6D	GlobalFiler™ (STRMIX)					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
HTKM2Z	PowerPlex® Fusion 6C					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24	11,11	7,14	12,22.2	6,9	8,8
	16,18	11	20	18		
HXFECH	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
J4EHEL	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
J6URJF	GlobalFiler™					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11			2	
J7PAKG	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

JA6VC4	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
JDHP7E	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14		6,9 8
		16,18	11			
JG9JBW	GlobalFiler™ Express					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
JKAKFY	PowerPlex® Fusion 6C					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	12,22.2	6,9 8
		16,18	11	20	18	
JYL7VJ	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
KK4QCJ	GlobalFiler™ IQC					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
KLWLW8	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

KN428J	PowerPlex® Fusion 6C					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24	11,11	7,14	12,22.2	6,9 8,8
		16,18	11	20	18	
KNLBWE	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
KPVXR8	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
KWBLKN	ID+					
			17,20		16,17	11
2		8,11	10,15			8,12 10,11
		11,13	13,14	31,32.2		X,Y 10
		24				6,9 8
		16,18				
L6N8U4	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14		6,9 8
		16,18	11			
LDFP67	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
LHQPF8	PowerPlex® 21, GlobalFiler™					
		12,17	17,20	10,14	16,17	11 12,18
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	12,22.2	6,9 8
		16,18	11			2

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

LLRVUG	GlobalFiler™ (TrueAllele)					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11			2	
LXLP6	PowerPlex® Fusion					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				
LXMWWL	Investigator® 24plex					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11				
M3X9EK	GlobalFiler™					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11			2	
M86WPZ	PowerPlex® Fusion					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				
MJFFZF	NGM SElect					
	12,17	17,20	10,14	16,17	N/A	N/A
2	N/A	10,15	15,15	15,22	N/A	10,11
	11,13	13,14	31,32.2	11,15	X,Y	N/A
	24,24	N/A	N/A	12,22.2	6,9	N/A
	16,18	N/A	N/A	N/A	N/A	
MPA463	PowerPlex® Fusion					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

MTM7TJ	GlobalFiler™					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11			2	
MUJGNL	GlobalFiler™ (STRmix)					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
MVD693	PowerPlex® Fusion					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				
N84JJJ	Identifiler® Plus					
		17,20		16,17	11,11	
2	8,11	10,15			8,12	10,11
	11,13	13,14	31,32.2		X,Y	10,10
	24,24				6,9	8,8
	16,18					
N8HRND	PowerPlex® Fusion 6C					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18		
NAKWYD	PowerPlex® Fusion 5C					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24	11,11	7,14		6,9	8,8
	16,18	11				
NG9BBY	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

NMYLKW	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
	2	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
	16,18	11			2	
NQGZQH	Investigator® 24plex QS					
		12,17	17,20	10,14	16,17	11,11
	2	8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
	16,18	11				
NVCUQ6	PowerPlex® Fusion 6C					
		12,17	17,20	10,14	16,17	11
	2	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	12,22.2	6,9 8
	16,18	11	20	18		
NW4TZW	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
	2	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
	16,18	11			2	
NW6H9Z	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
	2	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
	16,18	11			2	
NY8LY2	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
	2	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14		6,9 8
	16,18	11				
NZ34WW	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
	2	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
	16,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

PEHQHZ	PowerPlex® Fusion 5C					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				
PFWTRT	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
PK78CD	Investigator® 24plex					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11				
PMR6EA	PowerPlex® Fusion 6C					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18		
PTGFTE	NGM SElect					
	12,17	17,20	10,14	16,17		
2		10,15	15,15	15,22		10,11
	11,13	13,14	31,32.2	11,15	X,Y	
	24,24			12,22.2	6,9	
	16,18					
PWFYQ7	Identifiler® Plus					
		17,20		16,17	11,11	
2	8,11	10,15			8,12	10,11
	11,13	13,14	31,32.2		X,Y	10,10
	24,24				6,9	8,8
	16,18					
PYN2M4	GlobalFiler™					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

Q4ETCC	Investigator® 24plex					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11				
QBV6QC	Investigator® 24plex QS					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11				
QXAXQQ	GlobalFiler™ (STRMix)					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
R4W327	PowerPlex® Fusion 5C					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24	11,11	7,14		6,9	8,8
	16,18	11				
RAJU9Y	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
RHAJJ9	GlobalFiler™					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11,11			2,2	
RZNXZ3	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	--
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	--	--	12,22.2	6,9	8
	16,18	11	--	--	2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

T4BN9M	GlobalFiler™						
		12,17	17,20	10,14	16,17	11	
	2	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24			12,22.2	6,9	8
	16,18	11			2		
THMBA4	GlobalFiler™						
		12,17	17,20	10,14	16,17	11	
	2	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24			12,22.2	6,9	8
	16,18	11			2		
TL8FRY	GlobalFiler™						
		12,17	17,20	10,14	16,17	11,11	
	2	8,11	10,15	15,15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10,10
		24,24			12,22.2	6,9	8,8
	16,18	11			2		
TMZ6CF	PowerPlex® PP21						
		12,17	17,20		16,17	11,11	12,18
	2	8,11	10,15		15,22	8,12	10,11
		11,13	13,14	31,32.2		X,Y	10,10
		24,24	11,11	7,14		6,9	8,8
	16,18						
TW9Y89	GlobalFiler™						
		12,17	17,20	10,14	16,17	11	
	2	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24			12,22.2	6,9	8
	16,18	11			2		
TXZ2TN	GlobalFiler™ Express						
		12,17	17,20	10,14	16,17	11	
	2	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24			12,22.2	6,9	8
	16,18	11			2		
U848RW	PowerPlex® Fusion 5C						
		12,17	17,20	10,14	16,17	11	
	2	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24	11	7,14		6,9	8
	16,18	11					



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

U84AG2	PowerPlex® Fusion 6C					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18		
U8JTXR	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
U8MBZW	PowerPlex® Fusion					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				
UB2Y99	Investigator® 24plex QS, Flex Plex					
	12,17	17,20	10,14	16,17	11,11	12,18
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24	N/A	7,14	12,22.2	6,9	8,8
	16,18	11	20	18	N/A	
UDQ3PU	PowerPlex® Fusion					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				
UMFMUR	GlobalFiler™ Direct					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
UMXWL8	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

UMXWMT	PowerPlex® Fusion					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				
UNPZ9M	GlobalFiler™ Express					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
UTH4VZ	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
UTZ9FJ	GlobalFiler™, Argus X-12					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
VD7R37	PowerPlex® Fusion 5C					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24	11,11	7,14		6,9	8,8
	16,18	11				
VRJFXM	GlobalFiler™ Express					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
VY3J34	GlobalFiler™					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

VZF7M4	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
W67PDZ	GlobalFiler™					
		12,17	17,20	10,14	16,17	11 -
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	-	-	12,22.2	6,9 8
		16,18	11	-	-	2
WBVHBL	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
WK2886	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
WKJBMH	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
WN2HYX	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14		6,9 8
		16,18	11			
WYWNW3	PowerPlex® CS7, ESX17, Fusion, GlobalFiler™, Verifier Plus (GeneMapper™ ID-X 1,6 Client)					
		12,17	17,20	10,14	16,17	11 12,18
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	12,22.2	6,9 8
		16,18	11			2

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

X2KFQK	GlobalFiler™						
		12,17	17,20	10,14	16,17	11	
	2	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24			12,22.2	6,9	8
	16,18	11			2		
XM7AG7	PowerPlex® Fusion 6C						
		12,17	17,20	10,14	16,17	11,11	
	2	8,11	10,15	15,15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10,10
		24,24	11,11	7,14	12,22.2	6,9	8,8
	16,18	11	20	18			
XULNLX	PowerPlex® Fusion 6C						
		12,17	17,20	10,14	16,17	11	
	2	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18			
XVVZYT	GlobalFiler™						
		12,17	17,20	10,14	16,17	11	
	2	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24			12,22.2	6,9	8
	16,18	11			2		
XWRF8J	GlobalFiler™ Express						
		12,17	17,20	10,14	16,17	11	
	2	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24			12,22.2	6,9	8
	16,18	11			2		
XZTEN4	PowerPlex® Fusion 6C						
		12,17	17,20	10,14	16,17	11	
	2	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18			
Y3DQYT	GlobalFiler™						
		12,17	17,20	10,14	16,17	11,11	
	2	8,11	10,15	15,15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10,10
		24,24			12,22.2	6,9	8,8
	16,18	11			2		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

Y3ZWMY	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
Y7DWFJ	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
YE863V	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
YFM4KZ	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24	11,11	7,14		6,9 8,8
		16,18	11			
YKDJ7L	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
YKDNF3	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
2		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
YNRBXE	GlobalFiler™ Direct					
		12,17	17,20	10,14	16,17	11
2		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 2 - STR Results

YXKLAV	PowerPlex® Fusion 6C					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18		
Z7RN7F	GlobalFiler™ Direct					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
ZCHXDT	GlobalFiler™					
	12,17	17,20	10,14	16,17	11,11	
2	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11			2	
ZGPLVZ	PowerPlex® Fusion 6C					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18		
ZLLAAM	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
2	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

22CB48	Identifiler® Plus		18,20	15,18	10,11	
3		11,12	14,15		8,9	11,11
		14,17	11,12	31.2,32.2	X,X	12,12
		19,26			8,9	8,9
		18,18				
24DP2W	PowerPlex® Fusion		18,20	10,11	15,18	10,11
3		11,12	14,15	15	19,22	8,9
		14,17	11,12	31.2,32.2	15,16	X
		19,26	9,10	11	8,9	8,9
		18	NR			
26TPJZ	PowerPlex® Fusion 5C		18,20	10,11	15,18	10,11
3		11,12	14,15	14,15	19,22	8,9
		14,17	11,12	27,27.1,27.2,31.2,32.2	15,16	X,X
		19,26	9,10	11,11	8,9	8,9
		18,18				
2A963Q	PowerPlex® Fusion		18,20	10,11	15,18	10,11
3		11,12	14,15	15	19,22	8,9
		14,17	11,12	31.2,32.2	15,16	X
		19,26	9,10	11	8,9	8,9
		18				
2FUAPZ	GlobalFiler™		18,20	10,11	15,18	10,11
3		11,12	14,15	15,15	19,22	8,9
		14,17	11,12	31.2,32.2	15,16	X,X
		19,26			20,29.2	8,9
		18,18				
2JDCHQ	PowerPlex® Fusion 6C		18,20	10,11	15,18	10,11
3		11,12	14,15	15	19,22	8,9
		14,17	11,12	31.2,32.2	15,16	X
		19,26	9,10	11	20,29.2	8,9
		18				
2LY79Z	GlobalFiler™		18,20	10,11	15,18	10,11
3		11,12	14,15	15,15	19,22	8,9
		14,17	11,12	31.2,32.2	15,16	X,X
		19,26			20,29.2	8,9
		18,18				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

2UVWZ2	Investigator® 24plex					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					
3A3BWP	PowerPlex® Fusion 6C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11	20,29.2	8,9	8,9
	18					
3A4BV6	Investigator® 24plex					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					
3F9A7U	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18	NR			NR	
3JR2GW	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18	NR			NR	
3LDYKT	Identifiler® Plus					
		18,20		15,18	10,11	
3	11,12	14,15			8,9	11
	14,17	11,12	31.2,32.2		X,X	12
	19,26				8,9	8,9
	18					
3UAL2T	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18	NR			NR	



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

3Y6C6J	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
49KXGR	Identifiler® Plus					
		18,20		15,18	10,11	
3	11,12	14,15			8,9	11
	14,17	11,12	31.2,32.2		X,X	12
	19,26				8,9	8,9
	18					
4BTW4L	PowerPlex® Fusion 5C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18					
4BTYTQ	PowerPlex® Fusion 6C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11	20,29.2	8,9	8,9
	18					
4ERANQ	PowerPlex® Fusion 6C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11	20,29.2	8,9	8,9
	18					
4U4QVT	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18	NR			NR	
4UJAD6	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

4VH8ZT	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X,X	12
	19,26			20,29.2	8,9	8,9
	18	NM			NM	
63F2NJ	PowerPlex® Fusion					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18					
678KDV	PowerPlex® Fusion 6C (STRmix)					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11	20,29.2	8,9	8,9
	18					
6C6VVA	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
6DBH9E	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
6F49JY	Investigator® 24plex					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					
6KX4HL	PowerPlex® Fusion					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

6NXEAF	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
6T66DL	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
6YGTDH	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
79YU9H	PowerPlex® Fusion					
	15,17.3	18,20	10,11	15,18	10,11	
	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18					
7GR3VU	PowerPlex® Fusion 5C					
	15,17.3	18,20	10,11	15,18	10,11	
	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26	9,10	11,11		8,9	8,9
	18,18					
7H42P3	GlobalFiler™ (STRmix)					
	15,17.3	18,20	10,11	15,18	10,11	
	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					
7QZUZH	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X,X	12
	19,26			20,29.2	8,9	8,9
	18	NR		NR		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

7UA2BU	PowerPlex® Fusion 5C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26	9,10	11,11		8,9	8,9
	18,18					
7UXHDJ	PowerPlex® Fusion 5C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18					
7WMJKR	PowerPlex® Fusion 5C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26	9,10	11,11		8,9	8,9
	18,18					
7ZMVGR	PowerPlex® Fusion 5C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26	9,10	11,11		8,9	8,9
	18,18					
86BQTW	Identifiler® Plus, Investigator® 24plex QS					
	15,17.3	18,20	10,11	15,18	10,11	N/A
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26	N/A	N/A	20,29.2	8,9	8,9
	18,18	N/A	N/A	N/A	N/A	N/A
8APEB8	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18	NR			NR	
8MCQKW	GlobalFiler™ (mRMP by Familias3)					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

93MMM	Investigator® 24plex					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					
94G9E2	GlobalFiler™ (STRmix)					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					
96PJ9J	PowerPlex® Fusion 6C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11	20,29.2	8,9	8,9
	18					
97YK6Q	PowerPlex® Fusion					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18	NR				
9C6DYL	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
9D2PYV	Identifiler®, PowerPlex® CS7, Investigator HDplex, SureID 23Comp					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2		X,X	12,12
	19,26	9,10	11,11	20,29.2	8,9	8,9
	18,18					
9FNE8F	PowerPlex® Fusion 5c					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

9GFGRA	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18	NR			NR	
9JNP3E	PowerPlex® Fusion					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18					
9KJ96G	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X,X	12
	19,26			20,29.2	8,9	8,9
	18	NR			NR	
9LC2ZY	Identifiler® Plus					
		18,20		15,18	10,11	
3	11,12	14,15			8,9	11,11
	14,17	11,12	31.2,32.2		X,X	12,12
	19,26				8,9	8,9
	18,18					
9LU2UN	PowerPlex® ESX					
	15,17.3	18,20	10,11	15,18		
3		14,15	15	19,22		11
	14,17	11,12	31.2,32.2	15,16	X	
	19,26			20,29.2	8,9	
	18					
9NKBUH	PowerPlex® Fusion 5C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18					
9U7DT8	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	NT
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	NT	NT	20,29.2	8,9	8,9
	18	NR	NT	NT	NR	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

9WBN4P	PowerPlex® Fusion					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18					
9WHTM9	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18	No results			No results	
AAGCG6	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
ALUCDY	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
ARG3X9	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
B6GA6N	PowerPlex® Fusion 5C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18	NR				
B7ETWH	PowerPlex® Fusion 6C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11	20,29.2	8,9	8,9
	18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

BCHPQQ	PowerPlex® Fusion 5C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26	9,10	11,11		8,9	8,9
	18,18					
BFLBQA	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
BJLJW6	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
BNCU73	GlobalFiler™, ArgusX-12					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
BPQKVD	PowerPlex® Fusion					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18					
BRFM3M	PowerPlex® Fusion 5C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26	9,10	11,11		8,9	8,9
	18,18					
BRT6WR	Investigator® 24plex QS (FLEX PLEX)					
	15,17.3	18,20	10,11	15,18	10,11	12,16
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26	N/A	11,11	20,29.2	8,9	8,9
	18,18	N/A	N/A	N/A	N/A	



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

BVW48K	Investigator® 24plex QS, FlexPlex 27 I-Chip					
	15,17.3	18,20	10,11	15,18	10,11	N/A
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26	N/A	11,11	20,29.2	8,9	8,9
	18,18	N/A	N/A	N/A	N/A	
BW79JN	PowerPlex® Fusion					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18	NR				
C44BBR	PowerPlex® Fusion 6C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26	9,10	11,11	20,29.2	8,9	8,9
	18,18					
C8JJW7	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
CFDTYN	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					
CGA66P	PowerPlex® Fusion 6C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11	20,29.2	8,9	8,9
	18					
CL2HER	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X,X	12
	19,26			20,29.2	8,9	8,9
	18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

CUVGED	PowerPlex® Fusion 5C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18					
CXDVMK	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18	NR			NR	
D2TNBR	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
DBGGPA	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X,X	12
	19,26			20,29.2	8,9	8,9
	18	NR			NR	
DFQNZM	NGM					
	15,17.3	18,20	10,11	15,18		
3		14,15	15,15	19,22		11,11
	14,17	11,12	31.2,32.2	15,16	X,X	
	19,26				8,9	
	18,18					
DMTNLA	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
DX9LJL	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18	-			-	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

E3MVWG	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
E99V73	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
EGZ7K4	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
EPEZRT	Investigator® 24plex					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18	ND				
EWVND9	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X,X	12
	19,26			20,29.2	8,9	8,9
	18					
F6LGDL	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					
FFNP3J	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18	NR			NR	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

FKE2Z2	GlobalFiler™ (STRmix)					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X,X	12
	19,26			20,29.2	8,9	8,9
	18					
FLP2YG	PowerPlex® Fusion 6C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11	20,29.2	8,9	8,9
	18					
FNVFHF	PowerPlex® Fusion					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18	NR				
FQ4E4A	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X,X	12
	19,26			20,29.2	8,9	8,9
	18					
FT4YEM	PowerPlex® Fusion, GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X,X	12
	19,26	9,10	11	20,29.2	8,9	8,9
	18					
FU3X23	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
FZ9QVX	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

GEBEPC	PowerPlex® Fusion 6C						
		15,17.3	18,20	10,11	15,18	10,11	
	3	11,12	14,15	15	19,22	8,9	11
		14,17	11,12	31.2,32.2	15,16	X	12
		19,26	9,10	11	20,29.2	8,9	8,9
	18						
GF3DZ6	GlobalFiler™						
		15,17.3	18,20	10,11	15,18	10,11	
	3	11,12	14,15	15	19,22	8,9	11
		14,17	11,12	31.2,32.2	15,16	X	12
		19,26			20,29.2	8,9	8,9
	18						
GJKLK	GlobalFiler™						
		15,17.3	18,20	10,11	15,18	10,11	
	3	11,12	14,15	15	19,22	8,9	11
		14,17	11,12	31.2,32.2	15,16	X	12
		19,26			20,29.2	8,9	8,9
	18						
GYBR9J	PowerPlex® 16						
				15,18	10,11		
	3	11,12	14,15		8,9	11,11	
		14,17		31.2,32.2	X,X	12,12	
		19,26	9,10	11,11	8,9	8,9	
	18,18						
H DUH XD	PowerPlex® Fusion 6C						
		15,17.3	18,20	10,11	15,18	10,11	
	3	11,12	14,15	15	19,22	8,9	11
		14,17	11,12	31.2,32.2	15,16	X	12
		19,26	9,10	11	20,29.2	8,9	8,9
	18						
HFXHU4	GlobalFiler™, Argus X-12						
		15,17.3	18,20	10,11	15,18	10,11	
	3	11,12	14,15	15	19,22	8,9	11
		14,17	11,12	31.2,32.2	15,16	X	12
		19,26			20,29.2	8,9	8,9
	18						
HK7Y6D	GlobalFiler™						
		15,17.3	18,20	10,11	15,18	10,11	
	3	11,12	14,15	15	19,22	8,9	11
		14,17	11,12	31.2,32.2	15,16	X	12
		19,26			20,29.2	8,9	8,9
	18						

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

HTKM2Z	PowerPlex® Fusion 6C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26	9,10	11,11	20,29.2	8,9	8,9
	18,18	ND	ND	ND		
HXFECH	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18	-			-	
J4EHEL	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
J6URJF	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					
J7PAKG	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X,X	12
	19,26			20,29.2	8,9	8,9
	18					
JA6VC4	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
JDHP7E	PowerPlex® Fusion					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18	NR				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

JG9JBW	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18	No Results			No Results	
JKAKFY	PowerPlex® Fusion 6C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11	20,29.2	8,9	8,9
	18					
JYL7VJ	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					
KK4QCJ	GlobalFiler™ IQC					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					
KLWLW8	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
KN428J	PowerPlex® Fusion 6C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26	9,10	11,11	20,29.2	8,9	8,9
	18,18					
KNLBWE	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18	NR			NR	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

KPVXR8	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
KWBLKN	ID+					
		18,20		15,18	10,11	
	11,12	14,15			8,9	11
	14,17	11,12	31.2,32.2		X	12
	19,26				8,9	8,9
	18					
L6N8U4	PowerPlex® Fusion					
	15,17.3	18,20	10,11	15,18	10,11	
	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18					
LDFP67	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18	--		--		
LHQPF8	PowerPlex® 21, GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	12,16
	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11	20,29.2	8,9	8,9
	18					
LLRVUG	GlobalFiler™ (TrueAllele)					
	15,17.3	18,20	10,11	15,18	10,11	
	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					
LVXLP6	PowerPlex® Fusion					
	15,17.3	18,20	10,11	15,18	10,11	
	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18					



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

LXMWWL	Investigator® 24plex					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					
M3X9EK	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18	NR			NR	
M86WPZ	PowerPlex® Fusion					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18					
MJFFZF	NGM SElect					
	15,17.3	18,20	10,11	15,18	N/A	N/A
3	N/A	14,15	15,15	19,22	N/A	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	N/A
	19,26	N/A	N/A	20,29.2	8,9	N/A
	18,18	N/A	N/A	N/A	N/A	
MPA463	PowerPlex® Fusion					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18					
MTM7TJ	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,(9)
	18,18	NR			NR	
MUJGNL	GlobalFiler™ (STRmix)					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

MVD693	PowerPlex® Fusion					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18					
N84JJJ	Identifiler® Plus					
		18,20		15,18	10,11	
3	11,12	14,15			8,9	11,11
	14,17	11,12	31.2,32.2		X,X	12,12
	19,26				8,9	8,9
	18,18					
N8HRND	PowerPlex® Fusion 6C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11	20,29.2	8,9	8,9
	18					
NAKWYD	PowerPlex® Fusion 5C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26	9,10	11,11		8,9	8,9
	18,18					
NG9BBY	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
NMYLKW	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
NQGZQH	Investigator® 24plex QS					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

NVCUQ6	PowerPlex® Fusion 6C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11	20,29.2	8,9	8,9
	18					
NW4TZW	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
NW6H9Z	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X,X	12
	19,26			20,29.2	8,9	8,9
	18	NR			NR	
NY8LY2	PowerPlex® Fusion					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18					
PEHQHZ	PowerPlex® Fusion 5C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18					
PFWTRT	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
PK78CD	Investigator® 24plex					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

PMR6EA	PowerPlex® Fusion 6C (STRmix)					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11	20,29.2	8,9	8,9
	18					
PTGFTE	NGM SElect					
	15,17.3	18,20	10,11	15,18		
3		14,15	15,15	19,22		11,11
	14,17	11,12	31.2,32.2	15,16	X,X	
	19,26			20,29.2	8,9	
	18,18					
PWFYQ7	Identifiler® Plus					
		18,20		15,18	10,11	
3	11,12	14,15			8,9	11,11
	14,17	11,12	31.2,32.2		X,X	12,12
	19,26				8,9	8,9
	18,18					
PYN2M4	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					
Q4ETCC	Investigator® 24plex					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					
QBV6QC	Investigator® 24plex QS					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					
QXAXQQ	GlobalFiler™ (STRMix)					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

R4W327	PowerPlex® Fusion 5C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26	9,10	11,11		8,9	8,9
	18,18	N/A				
RAJU9Y	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
RHAJ9	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18	F,F			F,F	
RZNXZ3	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	--
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X,X	12
	19,26	--	--	20,29.2	8,9	8,9
	18	NM	--	--	NM	
THMBA4	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X,X	12
	19,26			20,29.2	8,9	8,9
	18	NM			NM	
TL8FRY	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18	--			--	
TMZ6CF	PowerPlex® PP21 (STRmix)					
	15,17.3	18,20		15,18	10,11	12,16
3	11,12	14,15		19,22	8,9	11,11
	14,17	11,12	31.2,32.2		X,X	12,12
	19,26	9,10	11,11		8,9	8,9
	18,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

TW9Y89	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
	11,12	14,15	15	19	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	26			20,29.2	8	8,9
18						
TXZ2TN	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
18	No results			No results		
U848RW	PowerPlex® Fusion 5C					
	15,17.3	18,20	10,11	15,18	10,11	
	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
18						
U84AG2	PowerPlex® Fusion 6C					
	15,17.3	18,20	10,11	15,18	10,11	
	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11	20,29.2	8,9	8,9
18						
U8JTXR	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
18						
U8MBZW	PowerPlex® Fusion					
	15,17.3	18,20	10,11	15,18	10,11	
	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
18						
UB2Y99	Investigator® 24plex QS, Flex Plex					
	15,17.3	18,20	10,11	15,18	10,11	12,16
	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	XX	12,12
	19,26	N/A	11,11	20,29.2	8,9	8,9
18,18	N/A	N/A	N/A	N/A	N/A	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

UDQ3PU	PowerPlex® Fusion					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18					
UMFMUR	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
UMXWL8	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
UMXWMT	PowerPlex® Fusion					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18					
UNPZ9M	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18	No Result			No Result	
UTH4VZ						
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
UTZ9FJ	GlobalFiler™, Argus X-12					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

VD7R37	PowerPlex® Fusion 5C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26	9,10	11,11		8,9	8,9
	18,18					
VRJFXM	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18	NR			NR	
VY3J34	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					
VZF7M4	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18	NR			NR	
W67PDZ	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	-
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X,X	12
	19,26	-	-	20,29.2	8,9	8,9
	18	NM	-	-	NM	
WBVHBL	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
WK2886	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

WN2HYX	PowerPlex® Fusion 5C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11		8,9	8,9
	18	NR				
WYWNW3	PowerPlex® CS7, ESX17, Fusion, GlobalFiler™, Verifiler Plus (GeneMapper™ ID-X 1,6 Client)					
	15,17.3	18,20	10,11	15,18	10,11	12,16
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11	20,29.2	8,9	8,9
	18					
X2KFQK	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
XM7AG7	PowerPlex® Fusion 6C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26	9,10	11,11	20,29.2	8,9	8,9
	18,18					
XULNLX	PowerPlex® Fusion 6C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11	20,29.2	8,9	8,9
	18					
XVZYT	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
XWRF8J	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18	No results			No results	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

XZTEN4	PowerPlex® Fusion 6C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11	20,29.2	8,9	8,9
	18					
Y3ZWMY	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18	NR			NR	
Y7DWFJ	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
YE863V	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18	NR			NR	
YFM4KZ	PowerPlex® Fusion 5C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26	9,10	11,11		8,9	8,9
	18,18					
YKDJ7L	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
YKDNF3	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 3 - STR Results

YNRBXE	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
YXKLAV	PowerPlex® Fusion 6C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11	20,29.2	8,9	8,9
	18					
Z7RN7F	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
ZCHXDT	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18	--			--	
ZGPLVZ	PowerPlex® Fusion 6C					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26	9,10	11	20,29.2	8,9	8,9
	18					
ZLLAAM	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					
ZUX8GE	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3	11,12	14,15	15	19,22	8,9	11
	14,17	11,12	31.2,32.2	15,16	X	12
	19,26			20,29.2	8,9	8,9
	18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	<b>D1S1656</b>	<b>D2S1338</b>	<b>D2S441</b>	<b>D3S1358</b>	<b>D5S818</b>	<b>D6S1043</b>
	<b>D7S820</b>	<b>D8S1179</b>	<b>D10S1248</b>	<b>D12S391</b>	<b>D13S317</b>	<b>D16S539</b>
	<b>D18S51</b>	<b>D19S433</b>	<b>D21S11</b>	<b>D22S1045</b>	<b>Amelogenin</b>	<b>CSF1PO</b>
	<b>FGA</b>	<b>Penta D</b>	<b>Penta E</b>	<b>SE33</b>	<b>TH01</b>	<b>TPOX</b>
	<b>vWA</b>	<b>DYS391</b>	<b>DYS570</b>	<b>DYS576</b>	<b>Y Indel</b>	

Item 3e - STR Results

Y3DQYT	GlobalFiler™					
	15,17.3	18,20	10,11	15,18	10,11	
3e	11,12	14,15	15,15	19,22	8,9	11,11
	14,17	11,12	31.2,32.2	15,16	X,X	12,12
	19,26			20,29.2	8,9	8,9
	18,18	--			--	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	<b>D1S1656</b>	<b>D2S1338</b>	<b>D2S441</b>	<b>D3S1358</b>	<b>D5S818</b>	<b>D6S1043</b>
	<b>D7S820</b>	<b>D8S1179</b>	<b>D10S1248</b>	<b>D12S391</b>	<b>D13S317</b>	<b>D16S539</b>
	<b>D18S51</b>	<b>D19S433</b>	<b>D21S11</b>	<b>D22S1045</b>	<b>Amelogenin</b>	<b>CSF1PO</b>
	<b>FGA</b>	<b>Penta D</b>	<b>Penta E</b>	<b>SE33</b>	<b>TH01</b>	<b>TPOX</b>
	<b>vWA</b>	<b>DYS391</b>	<b>DYS570</b>	<b>DYS576</b>	<b>Y Indel</b>	

Item 3sp - STR Results

Y3DQYT GlobalFiler™

3sp


TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4 - STR Results

2FUAPZ	GlobalFiler™					
		12,16,17	17,19,20	10,14	16,17	11
4		8,10,11	10,13,15	15	15,19,22	8,11,12
		11,13,14	13,14,14.2	29,31,32.2	11,15	X,Y
		20,24			12,17,22.2	6,9
		16,18	11			8
						2
2LY79Z	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17	11,12
4		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,22.2	6,9
		16,18	11			8
						2
8MCQKW	GlobalFiler™ (mRMP by Familias3)					
		12,17	17,20	10,14	16,17	11,11
4		8,11	10,15	15,15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24,24			12,22.2	6,9
		16,18	11			8,8
						2
9WBN4P	PowerPlex® Fusion					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17		6,7,9
		16,18	11			8,11
C44BBR	PowerPlex® Fusion 6C (STRmix)					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9
		16,18	11	20	18	8,11
CFDTYN	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			8,11
						2
DX9LJL	GlobalFiler™					
		12,16,17	17,19,20	10,14	16,17	11,12
4		8,10,11	10,13,15	13,15	15,19,22	8,11,12
		11,13,18	13,14	31,32.2	11,15	X,Y
		20,24			12,16,22.2	6,9
		16,18	11			8,11
						2

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4 - STR Results

F6LGDJ	PowerPlex®, GlobalFiler™					
	12,16,17	17,19,20	10,14	16,17,18	11	
4	8,10,11	10,13,15	15	15,19,22	8,11,12	10,11
	11,13,14	13,14	29,31,32.2	11,15	X,Y	10
	21,24			12,17,22.2	6,7,9	8
	16,18	11			2	
J6URJF	GlobalFiler™					
	12,16,17	17,19,20	10,14	16,17,18	11,12	
4	8,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14	13,14,14.2	29,31,32.2	11,15	X,Y	10
	20,21,24			12,16,17,22.2	6,7,9	8
	16,18	11			2	
JYL7VJ	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
KN428J	PowerPlex® Fusion 6C (STRmix)					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4	8,10,11	10,13,15	13,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11	7,14,17	12,16,17,22.2	6,7,9	8,11
	16,18	11	20	18		
PTGFTE	NGM SElect					
	12,16,17	[17],19,20	10,13,14	16,17,18		
4		[10],13,15	13,14,15	[15],19,20,[22]		[10],11
	[11,13],14,18	13,14,14.2	29,[31,32.2]	[11],15	X,Y	
	20,21,24			[12],16,17,[22.2]	6,7,[9]	
	16,[18]					
VY3J34	GlobalFiler™					
	12,17	17,20	10,14	16,17	11,12	
4	8,10,11	10,15	13,15	15,20,22	8,12	10,11
	11,13,14	13,14	29,31,32.2	11,15	X,Y	10
	20,24			12,17,22.2	6,9	8
	16,18	11			2	
WK2886	GlobalFiler™					
	12,16,17	17,20	10,14	16,17,18	11	
4	8,10,11	10,15	13,15	15,19,20,22	8,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	10,12
	20,21,24			12,16,22.2	6,9	8
	16,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4 - STR Results

Item	Kit	1	2	3	4	5	6
WYWNW3	PowerPlex® CS7, ESX17, Fusion, GlobalFiler™, Verifiler Plus (GeneMapper™ ID-X 1,6 Client)	12,17	17,20	10,14	16,17	11	12,18
		8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24	11	7,14	12,22.2	6,9	8
		16,18	11			2	
XM7AG7	PowerPlex® Fusion 6C (STRmix)	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
		8,10,11	10,13,15	13,15	15,19,20,22	8,11,12	10,11
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
		20,21,24	9,11	7,14,17	12,16,17,22.2	6,7,9	8,11
		16,18	11	20	18		
YKDNF3	GlobalFiler™	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
		20,21,24			12,16,17,22.2	6,7,9	8,11
		16,18	11			2	



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

22CB48	Identifiler® Plus	17,19,20		16,17,18	11,12	
4e		8,10,11	10,13,15		8,11,12	11
		11,13,14,18	13,14,14.2	29,31,32.2	X,Y	7,10,12
		20,21,24			6,7,9	8,11
		16,18				
24DP2W	PowerPlex® Fusion	17,19,20	10,13,14	16,17,18	11,12	
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17		6,7,9
		16,18	11			8,11
26TPJZ	PowerPlex® Fusion 5C	17,19,20	10,13,14	16,17,18	11,12	
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,30,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17		6,7,9
		16,18	11			8,11
2A963Q	PowerPlex® Fusion	17,19,20	10,13,14	16,17,18	11,12	
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17		6,7,9
		16,18	11			8,11
2JDCHQ	PowerPlex® Fusion 6C (STRmix)	17,19,20	10,13,14	16,17,18	11,12	
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9
		16,18	11	20	18	8,11
2UVWZ2	Investigator® 24plex	17,19,20	10,13,14	16,17,18	11,12	
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			8,11
3A3BWP	PowerPlex® Fusion 6C (STRmix)	17,19,20	10,13,14	16,17,18	11,12	
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9
		16,18	11	20	18	8,11

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

3A4BV6	Investigator® 24plex					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11				
3F9A7U	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
3JR2GW	GlobalFiler™					
	12,16,[17]	[17],19,20	[10],13,14	16,[17],18	[11],12	
4e	[8],10,[11]	[10],13,15	13,14,15	[15],19,20,[22]	[8],11,12	[10],11
	[11],[13],14,18	[13],14,14.2	29,[31],[32.2]	[11],15	X,[Y]	7,[10],12
	20,21,[24]			[12],16,17,[22.2]	6,7,[9]	8,11
	16,[18]	11			2	
3LDYKT	Identifiler® Plus					
		17,19,20		16,17,18	11,12	
4e	8,10,11	10,13,15			8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2		X,Y	7,10,12
	20,21,24				6,7,9	8,11
	16,18					
3UAL2T	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
3Y6C6J	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11,12
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
49KXGR	Identifiler® Plus					
		17,19,20		16,17,18	11,12	
4e	8,10,11	10,13,15			8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2		X,Y	7,10,12
	20,21,24				6,7,9	8,11
	16,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

4BTW4L	PowerPlex® Fusion 5C					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18	11				
4BTYTQ	PowerPlex® Fusion 6C (STRmix)					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9	8,11
	16,18	11	20	18		
4ERANQ	PowerPlex® Fusion 6C (STRmix)					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9	8,11
	16,18	11	20	18		
4U4QVT	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
4UJAD6	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,[Y]	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
4VH8ZT	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
63F2NJ	PowerPlex® Fusion					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

678KDV	PowerPlex® Fusion 6C (STRmix)					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9	8,11
	16,18	11	20	18		
6C6VVA	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
6DBH9E	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
6F49JY	Investigator® 24plex					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11				
6KX4HL	PowerPlex® Fusion					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18	11				
6NXEAF	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
6T66DL	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

6YGTDH	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			2
79YU9H	PowerPlex® Fusion					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17		6,7,9
		16,18	11			8,11
7GR3VU	PowerPlex® Fusion 5C					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17		6,7,9
		16,18	11			8,11
7H42P3	GlobalFiler™ (STRmix)					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			2
7QZUZH	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			2
7UA2BU	PowerPlex® Fusion 5C					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,X
		20,21,24	9,11,12	7,14,17		6,7,9
		16,18	11			8,11
7UXHDJ	PowerPlex® Fusion 5C					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17		6,7,9
		16,18	11			8,11

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

7WMJKR	PowerPlex® Fusion 5C					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17	6,7,9	7,10,12
	16,18	11			8,11	
7ZMVGR	PowerPlex® Fusion 5C					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17	6,7,9	7,10,12
	16,18	11			8,11	
86BQTV	Identifiler® Plus, Investigator® 24plex QS					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	N/A	N/A	12,16,17,22.2	6,7,9
	16,18	11	N/A	N/A	7,10,12	
					8,11	
					N/A	
8APEB8	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
	16,18	11			7,10,12	
					8,11	
					2	
93MMMV	Investigator® 24plex					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
	16,18	11			7,10,12	
					8,11	
94G9E2	GlobalFiler™ (STRmix)					
		12,16,17	17,18,19,20	10,13,14	15,16,17,18	11,12
	4e	8,10,11	10,13,14,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,13.2,14,14.2	29,31,32.2	11,14,15,16	X,Y
		20,21,24			12,16,17,22.2	6,7,9
	15,16,18	11			7,10,12	
					8,11,Q	
					2	
96PJ9J	PowerPlex® Fusion 6C (STRmix)					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9
	16,18	11	20	18	7,10,12	
					8,11	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

97YK6Q	PowerPlex® Fusion					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18	11				
9C6DYL	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,22	8,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10
	20,21,24			12,16,17,22.2	6,9	8,11
	16,18	11			2	
9D2PYV	Identifiler®, PowerPlex® CS7, Investigator HDplex, SureID 23Comp					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2		X,Y	7,10,12
	20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9	8,11
	16,18					
9FNE8F	PowerPlex® Fusion 5c					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18	11				
9GFGRA	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
9JNP3E	PowerPlex® Fusion					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18	11				
9KJ96G	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

9LC2ZY	Identifiler® Plus					
		17,19,20		16,17,18	11,12	
4e		8,10,11	10,13,15		8,11,12	10,11
		11,13,14,18	13,14,14.2	29,31,32.2	X,Y	7,10,12
		20,21,24			6,7,9	8,11
		16,18				
9LU2UN	PowerPlex® ESX					
		12,16,17	17,19,20	10,13,14	16,17,18	
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	10,11
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18				
9NKBUH	PowerPlex® Fusion 5C					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17		6,7,9
		16,18	11			8,11
9U7DT8	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	NT	NT	12,16,17,22.2	6,7,9
		16,18	11	NT	NT	8,11
					2	
9WHTM9	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			8,11
					2	
AAGCG6	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			8,11
					2	
ALUCDY	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			8,11
					2	



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

ARG3X9	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			2
B6GA6N	PowerPlex® 5C					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17		6,7,9
		16,18	11			8,11
B7ETWH	PowerPlex® Fusion 6C (STRmix)					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9
		16,18	11	20	18	8,11
BCHPQQ	PowerPlex® Fusion 5C					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17		6,7,9
		16,18	11			8,11
BFLBQA	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			2
BJLW6	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			2
BNCU73	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			2

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

BPQKVD	PowerPlex® Fusion					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18	11				
BRFM3M	PowerPlex® Fusion 5C					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,14,18	13,14,14.2	29,31	15,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18	11				
BRT6WR	Investigator® 24plex QS					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	N/A
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	N/A	N/A	12,16,17,22.2	6,7,9	8,11
	16,18	11	N/A	N/A	N/A	
BVW48K	Investigator® 24plex QS					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	N/A
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	N/A	N/A	12,16,17,22.2	6,7,9	8,11
	16,18	11	N/A	N/A	N/A	
BW79JN	PowerPlex® Fusion					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18	11				
C8JJW7	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
CGA66P	PowerPlex® Fusion 6C (STRmix)					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9	8,11
	16,18	11	20	18		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

CL2HER	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			2
CUVGED	PowerPlex® Fusion 5C					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17		6,7,9
		16,18	11			8,11
CXDVMK	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			8,11
D2TNBR	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			8,11
DBGGPA	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			8,11
DFQNZM	NGM					
		12,16,17	17,19,20	10,13,14	16,17,18	
4e			10,13,15	13,14,15	15,19,20,22	10,11
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24				6,7,9
		16,18				
DMTNLA	GlobalFiler™ (STRmix)					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			8,11
						2

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

E3MVWG	GlobalFiler™ (STRmix)						
		12,16,[17]	[17],19,20	[10],13,14	16,[17],18	[11],12	
	4e	[8],10,[11]	[10],13,15	13,14,[15]	[15],19,20,[22]	[8],11,12	11
		[11],[13],14,18	[13],14,14.2	29,[31],[32.2]	[11],15	X,[Y]	7,[10],12
		20,21,[24]			[12],16,17,[22.2]	6,7,[9]	8,11
	16,[18]	11			2		
E99V73	GlobalFiler™						
		12,16,17	17,19,20	10,13,14	16,17,18	11,12	
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
		20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2		
EGZ7K4	GlobalFiler™						
		12,16,17	17,19,20	10,13,14	16,17,18	11,12	
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
		20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2		
EPEZRT	Investigator® 24plex						
		12,16,17	17,19,20	10,13,14	16,17,18	11,12	
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,X	7,10,12
		20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11					
EWWND9	GlobalFiler™						
		12,16,17	17,19,20	10,13,14	16,17,18	11,12	
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
		20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2		
FFNP3J	GlobalFiler™						
		12,16,[17]	[17],19,20	[10],13,14	16,[17],18	[11],12	
	4e	[8],10,[11]	[10],13,15	13,14,15	[15],19,20,[22]	[8],11,12	[10],11
		[11],[13],14,18	[13],14,14.2	29,[31],[32.2]	[11],15	X,[Y]	7,10,12
		20,21,24			[12],16,17,[22.2]	6,7,[9]	8,[11]
	16,[18]	11			2		
FKE2Z2	GlobalFiler™ (STRmix)						
		12,15,16,17,Q	17,18,19,20,Q	10,13,14	15,16,17,18	11,12	
	4e	8,10,11	10,13,14,15	12,13,14,15	15,19,20,22	8,10,11,12	10,11,Q
		11,13,14,18	13,14,14.2	29,31,32.2	11,14,15,16,Q	X,Y	7,10,11,12,Q
		20,21,24			12,16,17,22.2	6,7,9,Q	8,11,Q
	15,16,18,Q	11			2		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

FLP2YG	PowerPlex® Fusion 6C (STRmix)					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9	8,11
	16,18	11	20	18		
FNVFHF	PowerPlex® Fusion					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18	11				
FQ4E4A	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
FT4YEM	PowerPlex® Fusion, GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
FU3X23	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
FZ9QVX	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
GEBEPC	PowerPlex® Fusion 6C (STRmix)					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9	8,11
	16,18	11	20	18		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

GF3DZ6	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
GJKLK	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
GYBR9J				16,17,18	11,12	
4e	8,10,11	10,13,15			8,11,12	10,11
	11,13,14,18		29,31,32.2		X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18					
HDUHXD	PowerPlex® Fusion 6C (STRmix)					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9	8,11
	16,18	11	20	18		
HFXHU4	GlobalFiler™, Argus X-12					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
HK7Y6D	GlobalFiler™ (STRMIX)					
	12,16,[17]	[17],19,20	[10],13,14	16,[17],18	[11],12	
4e	[8],10,[11]	[10],13,15	13,14,[15]	[15],19,20,[22]	[8],11,12	[10],11
	[11],[13],14,18	[13],14,14.2	29,[31,32.2]	[11],15	X,[Y]	7,[10],12
	20,21,[24]			[12],16,17,[22.2]	6,7,[9]	8,11
	16,[18]	11			2	
HTKM2Z	PowerPlex® Fusion 6C					
	12,16,[17]	[17],19,20	[10],13,14	16,[17],18	[11],12,12	
4e	[8],10,10,[11]	[10],13,15	13,14,[15]	[15],19,20,[22]	[8],11,12	[10],11,11
	[11],[13],14,18	[13],14,14.2	29,29,[31],[32.2]	[11],15,15	X,X,[Y]	7,[10],12
	20,21,[24]	9,[11],12	7,[14],17	[12],16,17,[22.2]	6,7,[9]	8,11
	16,16,[18]	[11]	[20]	[18]		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

HXFECH	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
	16,18	11			2	
J4EHEL	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
	16,18	11			2	
J7PAKG	GlobalFiler™ (ARMED XPERT)					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
	16,18	11			2	
JA6VC4	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
	16,18	11			2	
JDHP7E	PowerPlex® Fusion					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17		6,7,9
	16,18	11			8,11	
JG9JBW	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
	16,18	11			2	
JKAKFY	PowerPlex® Fusion 6C (STRmix (Version 2.7))					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9
	16,18	11	20	18	8,11	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

KK4QCJ	GlobalFiler™ IQC					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
	4e 8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
KLWLW8	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
	4e 8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
KNLBWE	GlobalFiler™					
	12,[16],[17]	[17],19,20	[10],13,14	16,[17],[18]	[11],12	
	4e 10,[11]	[10],13,15	13,14,[15]	19,20,[22]	[8],11,12	[10],11
	[11],[13],14,18	[13],14,14.2	29,[31]	[11],15	X,[Y]	7,[10],12
	20,21,[24]			[12],16,17,[22.2]	6,7,[9]	8,11
	16,[18]	11			2	
KPVXR8	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
	4e 8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
KWBLKN	ID+					
		19,20		16,18	12	
	4e 10	13,15			11,12	11
	14,18	14,14.2	29		X	7,12
	20,21				6,7	8,11
	16					
L6N8U4	PowerPlex® Fusion					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
	4e 8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18	11				
LDFP67	GlobalFiler™					
	12,16,[17]	[17],19,20	[10],13,14	16,[17],18	11,12	
	4e [8],10,[11]	10,13,15	13,14,[15]	[15],19,20,[22]	[8],11,12	[10],11
	[11],[13],14,18	[13],14,14.2	29,[31,32.2]	[11],15	X,Y	7,10,12
	20,21,[24]			[12],16,17,[22.2]	6,7,9	8,11
	16,[18]	11			2	



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

LHQPFB	PowerPlex® 21, GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	12,17,18
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
LLRVUG	GlobalFiler™ (TrueAllele)					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
LXLP6	PowerPlex® Fusion					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18	11				
LXMWWL	Investigator® 24plex					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11				
M3X9EK	GlobalFiler™					
	12,16,[17]	[17],[19],20	[10],[13],14	16,[17],18	[11],12	
4e	[8],10,[11]	[10],13,15	13,14,[15]	[15],19,20,[22]	[8],11,12	[10],11
	[11],[13],14,18	[13],14,14.2	29,[31],[32.2]	[11],15	X,[Y]	7,[10],12
	20,21,[24]			[12],16,17,[22.2]	6,7,[9]	8,[11]
	16,[18]	11			2	
M86WPZ	PowerPlex® Fusion					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18	11				
MJFFZF	NGM SElect					
	12,16,17	17,19,20	10,13,14	16,17,18	N/A	N/A
4e	N/A	10,13,15	13,14,15	15,19,20,22	N/A	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	N/A
	20,21,24	N/A	N/A	12,16,17,22.2	6,7,9	N/A
	16,18	N/A	N/A	N/A	N/A	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

MPA463	PowerPlex® Fusion					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17		6,7,9
	16,18	11				
MTM7TJ	GlobalFiler™					
		12,16,(17)	(17),19,20	(10),13,14	16,(17),18	(11),12
	4e	(8),10,(11)	13,15	13,14,(15)	19,20	11,12
		(11),(13),14,18	(13),14,14.2	29,29	(11),15	X,(Y)
		20,21,(24)			(12),16,17,(22.2)	6,7,(9)
	16,16	11			NR	
MUJGNL	GlobalFiler™ (STRmix)					
		12,15,16,17	17,18,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,12,13,15	12,13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,14,15,16	X,Y
		19,20,21,24			12,16,17,22.2	6,7,9
	15,16,18	11			2	
MVD693	PowerPlex® Fusion					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17		6,7,9
	16,18	11				
N84JJJ	Identifiler® Plus					
			17,19,20		16,17,18	11,12
	4e	8,10,11	10,13,15			8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2		X,Y
		20,21,24				6,7,9
	16,18				8,11	
N8HRND	PowerPlex® Fusion 6C					
		12,16	19,20	13,14	16,18	12,12
	4e	10,10	13,15	13,14	19,20	11,12
		14,18	14,14.2	29,29	15,15	X,X
		20,21	9,12	7,17	16,17	6,7
	16,16				8,11	
NAKWYD	PowerPlex® Fusion 5C					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17		6,7,9
	16,18	11			8,11	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

NG9BBY	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
	16,18	11			2	
NMYLKW	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
	16,18	11			2	
NQGZQH	Investigator® 24plex QS					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
	16,18	11			8,11	
NVCUQ6	PowerPlex® Fusion 6C (STRmix)					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9
	16,18	11	20	18	8,11	
NW4TZW	GlobalFiler™ (STRmix)					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
	16,18	11			2	
NW6H9Z	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
	16,18	11			2	
NY8LY2	PowerPlex® Fusion					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
	4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17		6,7,9
	16,18	11			8,11	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

PEHQHZ	PowerPlex® Fusion 5C					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18	11				
PFWTRT	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
PK78CD	Investigator® 24plex					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11				
PMR6EA	PowerPlex® Fusion 6C (STRmix)					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9	8,11
	16,18	11	20	18		
PWFYQ7	Identifiler® Plus					
		17,19,20		16,17,18	11,12	
4e	8,10,11	10,13,15			8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2		X,Y	7,10,12
	20,21,24				6,7,9	8,11
	16,18					
PYN2M4	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
Q4ETCC	Investigator® 24plex					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

QBV6QC	Investigator® 24plex QS					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11				
QXAXQQ	GlobalFiler™ (STRMix)					
	12,16,17	17,18,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,14,15,16	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	15,16,18	11			2	
R4W327	PowerPlex® Fusion 5C					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18	11				
RAJU9Y	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
RHAJ9	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
RZNXZ3	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	--
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	--	--	12,16,17,22.2	6,7,9	8,11
	16,18	11	--	--	2	
THMBA4	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

TL8FRY	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
TMZ6CF	PowerPlex® PP21 (STRmix)					
	12,16,17	17,19,20		16,17,18	11,12	12,17,18
4e	8,10,11	10,13,15		15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2		X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18					
TW9Y89	GlobalFiler™					
	12,[16],17	17,[19],20	10,[13],14	16,17,[18]	11,[12]	
4e	8,10,11	10,[13],15	[13,14],15	15,[19,20],22	8,12	10,11
	11,13,[14,18]	13,14	[29],31,32.2	11,15	X,Y	[7],10,[12]
	[20,21],24			12,[16,17],22.2	6,9	8,[11]
	16,18	11			2	
TXZ2TN	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
U848RW	PowerPlex® Fusion 5C					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	11
	11,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18	11				
U84AG2	PowerPlex® Fusion 6C (STRmix)					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9	8,11
	16,18	11	20	18		
U8JTXR	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

U8MBZW	PowerPlex® Fusion					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18	11				
UB2Y99	Investigator® 24plex QS					
	12,[16],[17]	[17],19,20	[10],13,14	16,[17],18	[11],12	N/A
4e	[8],10,[11]	[10],13,15	13,14,[15]	[15],19,20,[22]	[8],11,12	[10],11
	[11],[13],14,18	[13],14,14.2	29,[31],[32.2]	[11],15	X,[Y]	7,[10],[12]
	20,21,[24]	N/A	N/A	[12],16,17,[22.2]	6,7,[9]	8,[11]
	16,[18]	11	N/A	N/A	N/A	
UDQ3PU	PowerPlex® Fusion					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18	11				
UMFMUR	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
UMXWL8	GlobalFiler™					
	12,16,[17]	[17],19,20	[10],13,14	16,[17],18	[11],12	
4e	[8],10,[11]	[10],13,15	13,14,[15]	[15],19,20,[22]	[8],11,12	11
	[11],14,18	[13],14,14.2	29,[31,32.2]	[11],15	X,[Y]	7,[10],12
	20,21,[24]			[12],16,17,[22.2]	6,7,[9]	8,11
	16,[18]				[2]	
UMXWMT	PowerPlex® Fusion					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18	11				
UNPZ9M	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

UTH4VZ	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
	4e 8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
UTZ9FJ	GlobalFiler™, Argus X-12					
	12,16,[17]	[17],19,20	[10],13,14	16,[17],18	11,12	
	4e [8],10,[11]	[10],13,15	13,14,15	15,19,20,22	[8],11,12	[10],11
	[11],[13],14,18	[13],14,14.2	29,[31],[32.2]	[11],15	X,[Y]	7,[10],12
	20,21,24			[12],16,17,[22.2]	6,7,[9]	8,11
	16,[18]	11			2	
VD7R37	PowerPlex® Fusion 5C					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
	4e 8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18	11				
VRJFXM	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
	4e 8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
VZF7M4	GlobalFiler™					
	12,16,[17]	[17],19,20	[10],13,14	16,[17],18	[11],12	
	4e [8],10,[11]	[10],13,15	13,14,[15]	[15],19,20,[22]	[8],11,12	11,11
	[11],[13],14,18	[13],14,14.2	29,[31],[32.2]	[11],15	X,[Y]	7,[10],12
	20,21,[24]			[12],16,17,[22.2]	6,7,[9]	8,11
	16,[18]	11			2	
W67PDZ	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	-
	4e 8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	-	-	12,16,17,22.2	6,7,9	8,11
	16,18	11	-		2	
WBVHBL	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
	4e 8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

WN2HYX	PowerPlex® Fusion 5C					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17		6,7,9	8,11
	16,18	11				
X2KFQK	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
XULNLX	PowerPlex® Fusion 6C (STRmix)					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9	8,11
	16,18	11	20	18		
XVZYT	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
XWRF8J	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
XZTEN4	PowerPlex® Fusion 6C (STRmix)					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9	8,11
	16,18	11	20	18		
Y3DQYT	GlobalFiler™					
	12,16,[17]	[17],19,20	[10],13,14	16,[17],18	11,12	
4e	[8],10,[11]	[10],13,15	13,14,[15]	[15],19,20,[22]	[8],11,12	[10],11
	[11],[13],14,18	[13],14,14.2	29,[31],[32.2]	[11],15	X,[Y]	7,[10],12
	20,21,[24]			[12],16,17,[22.2]	6,7,[9]	8,11
	16,[18]	[11]			[2]	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

Y3ZWMY	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			2
Y7DWFJ	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			2
YE863V	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			2
YFM4KZ	PowerPlex® Fusion 5C					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17		6,7,9
		16,18	11			8,11
YKD7L	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			2
YNRBXE	GlobalFiler™					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24			12,16,17,22.2	6,7,9
		16,18	11			2
YXKLAV	PowerPlex® Fusion 6C (STRmix)					
		12,16,17	17,19,20	10,13,14	16,17,18	11,12
4e		8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12
		11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y
		20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9
		16,18	11	20	18	8,11

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4e - STR Results

Z7RN7F	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	10,11			2	
ZCHXDT	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
ZGPLVZ	PowerPlex® Fusion 6C (STRmix)					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24	9,11,12	7,14,17	12,16,17,22.2	6,7,9	8,11
	16,18	11	20	18		
ZLLAAM	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	11			2	
ZUX8GE	GlobalFiler™					
	12,16,17	17,19,20	10,13,14	16,17,18	11,12	
4e	8,10,11	10,13,15	13,14,15	15,19,20,22	8,11,12	10,11
	11,13,14,18	13,14,14.2	29,31,32.2	11,15	X,Y	7,10,12
	20,21,24			12,16,17,22.2	6,7,9	8,11
	16,18	10,11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

22CB48	Identifiler® Plus					
		17,20		16,17	11,11	
4sp		8,11	10,15		8,12	10,11
		11,13	13,14	31,32.2	X,Y	10,10
		24,24			6,9	8,8
		16,18				
24DP2W	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24	11	7,14	6,9	8
		16,18	11			
26TPJZ	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11,11
4sp		8,11	10,15	15,15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24,24	11,11	7,14	6,9	8,8
		16,18	10,11			
2A963Q	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24	11	7,14	6,9	8
		16,18	11			
2JDCHQ	PowerPlex® Fusion 6C (STRmix)					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24	11	7,14	12,22.2	6,9
		16,18	11	20	18	8
2UVWZ2	Investigator® 24plex					
		12,17	17,20	10,14	16,17	11,11
4sp		8,11	10,15	15,15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24,24			12,22.2	6,9
		16,18	11			8,8
3A3BWP	PowerPlex® Fusion 6C (STRmix)					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24	11	7,14	12,22.2	6,9
		16,18	11	20	18	8

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

3A4BV6	Investigator® 24plex					
		12,17	17,20	10,14	16,17	11,11
4sp		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			
3F9A7U	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
4sp		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
3JR2GW	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
4sp		8,11	10,15	[13],15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
3LDYKT	Identifiler® Plus					
			17,20		16,17	11
4sp		8,11	10,15			8,12 10,11
		11,13	13,14	31,32.2		X,Y 10
		24				6,9 8
		16,18				
3UAL2T	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
4sp		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
3Y6C6J	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
49KXGR	Identifiler® Plus					
			17,20		16,17	11
4sp		8,11	10,15			8,12 10,11
		11,13	13,14	31,32.2		X,Y 10
		24				6,9 8
		16,18				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

4BTW4L	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14		6,9 8
		16,18	11			
4BTYTQ	PowerPlex® Fusion 6C (STRmix)					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	12,22.2	6,9 8
		16,18	11	20	18	
4ERANQ	PowerPlex® Fusion 6C (STRmix)					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	12,22.2	6,9 8
		16,18	11	20	18	
4U4QVT	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
4sp		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
4UJAD6	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
4sp		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
4VH8ZT	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
63F2NJ	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14		6,9 8
		16,18	11			

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

678KDV	PowerPlex® Fusion 6C (STRmix)					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18		
6C6VVA	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
6DBH9E	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
6F49JY	Investigator® 24plex					
	12,17	17,20	10,14	16,17	11,11	
4sp	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11				
6KX4HL	PowerPlex® Fusion					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				
6NXEAF	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
6T66DL	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

6YGTDH	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
79YU9H	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14		6,9 8
		16,18	11			
7GR3VU	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11,11
4sp		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24	11,11	7,14		6,9 8,8
		16,18	11			
7H42P3	GlobalFiler™ (STRmix)					
		12,17	17,20	10,14	16,17	11,11
4sp		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
7QZUZH	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
7UA2BU	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11,11
4sp		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24	11,11	7,14		6,9 8,8
		16,18	11			
7UXHDJ	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14		6,9 8
		16,18	11			



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

7WMJKR	PowerPlex® Fusion 5C						
		12,17	17,20	10,14	16,17	11,11	
	4sp	8,11	10,15	15,15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10,10
		24,24	11,11	7,14		6,9	8,8
	16,18	11					
7ZMVGR	PowerPlex® Fusion 5C						
		12,17	17,20	10,14	16,17	11,11	
	4sp	8,11	10,15	15,15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10,10
		24,24	11,11	7,14		6,9	8,8
	16,18	11					
86BQTV	Identifiler® Plus, Investigator® 24plex QS						
		12,17	17,20	10,14	16,17	11,11	N/A
	4sp	8,11	10,15	15,15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10,10
		24,24	N/A	N/A	12,22.2	6,9	8,8
	16,18	11	N/A	N/A	N/A		
8APEB8	GlobalFiler™						
		12,17	17,20	10,14	16,17	11	
	4sp	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24			12,22.2	6,9	8
	16,18	11			2		
93MMMV	Investigator® 24plex						
		12,17	17,20	10,14	16,17	11,11	
	4sp	8,11	10,15	15,15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10,10
		24,24			12,22.2	6,9	8,8
	16,18	11					
94G9E2	GlobalFiler™ (STRmix)						
		12,17	17,20	10,14	16,17	11,11	
	4sp	8,11	10,15	15,15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10,10
		24,24			12,22.2	6,9	8,8
	16,18	11			2		
96PJ9J	PowerPlex® Fusion 6C (STRmix)						
		12,17	17,20	10,14	16,17	11	
	4sp	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18			

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

97YK6Q	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14		6,9 8
		16,18	11			
9C6DYL	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
9D2PYV	Identifiler®, PowerPlex® CS7, Investigator HDplex, SureID 23Comp					
		12,17	17,20	10,14	16,17	11,11
4sp		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2		X,Y 10,10
		24,24	11,11	7,14	12,22.2	6,9 8,8
		16,18				
9FNE8F	PowerPlex® Fusion 5c					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14		6,9 8
		16,18	11			
9GFGRA	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
9JNP3E	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14		6,9 8
		16,18	11			
9KJ96G	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

9LC2ZY	Identifiler® Plus					
		17,20		16,17	11,11	
4sp		8,11	10,15		8,12	10,11
		11,13	13,14	31,32.2	X,Y	10,10
		24,24			6,9	8,8
		16,18				
9LU2UN	PowerPlex® ESX					
		12,17	17,20	10,14	16,17	
4sp			10,15	15	15,22	10,11
		11,13	13,14	31,32.2	11,15	X,Y
		24		12,22.2	6,9	
		16,18				
9NKBUH	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24	11	7,14	6,9	8
		16,18	11			
9U7DT8	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24	NT	NT	12,22.2	6,9
		16,18	11	NT	NT	2
9WHTM9	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24			12,22.2	6,9
		16,18	11			2
AAGCG6	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24			12,22.2	6,9
		16,18	11			2
ALUCDY	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12
		11,13	13,14	31,32.2	11,15	X,Y
		24			12,22.2	6,9
		16,18	11			2

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

ARG3X9	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
B6GA6N	PowerPlex® 5C					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14		6,9 8
		16,18	11			
B7ETWH	PowerPlex® Fusion 6C (STRmix)					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	12,22.2	6,9 8
		16,18	11	20	18	
BCHPQQ	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11,11
4sp		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24	11,11	7,14		6,9 8,8
		16,18	11			
BFLBQA	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
BJLW6	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
BNCU73	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

BPQKVD	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	6,9	8
	16,18	11				
BRFM3M	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11,11
	4sp	8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	29,31,32.2	11,15	X,Y 10,10
		24,24	11,11	7,14	6,9	8,8
	16,18	11				
BRT6WR	Investigator® 24plex QS					
		12,17	17,20	10,14	16,17	11,11 N/A
	4sp	8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24	N/A	N/A	12,22.2	6,9 8,8
	16,18	11	N/A	N/A	N/A	
BVW48K	Investigator® 24plex QS					
		12,17	17,20	10,14	16,17	11,11 N/A
	4sp	8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24	N/A	N/A	12,22.2	6,9 8,8
	16,18	11	N/A	N/A	N/A	
BW79JN	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	6,9	8
	16,18	11				
C8JJW7	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
	16,18	11			2	
CGA66P	PowerPlex® Fusion 6C (STRmix)					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	12,22.2	6,9 8
	16,18	11	20	18		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

CL2HER	GlobalFiler™						
		12,17	17,20	10,14	16,17	11	
	4sp	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24			12,22.2	6,9	8
	16,18	11			2		
CUVGED	PowerPlex® Fusion 5C						
		12,17	17,20	10,14	16,17	11	
	4sp	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24	11	7,14		6,9	8
	16,18	11					
CXDVMK	GlobalFiler™						
		12,17	17,20	10,14	16,17	11,11	
	4sp	8,11	10,15	15,15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10,10
		24,24			12,22.2	6,9	8,8
	16,18	11			2		
D2TNBR	GlobalFiler™						
		12,17	17,20	10,14	16,17	11	
	4sp	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24			12,22.2	6,9	8
	16,18	11			2		
DBGGPA	GlobalFiler™						
		12,17	17,20	10,14	16,17	11	
	4sp	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24			12,22.2	6,9	8
	16,18	11			2		
DFQNZM	NGM						
		12,17	17,20	10,14	16,17		
	4sp		10,15	15,15	15,22		10,11
		11,13	13,14	31,32.2	11,15	X,Y	
		24,24				6,9	
	16,18						
DMTNLA	GlobalFiler™ (STRmix)						
		12,17	17,20	10,14	16,17	11	
	4sp	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24			12,22.2	6,9	8
	16,18	11			2		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

E3MVWG	GlobalFiler™ (STRmix)					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
E99V73	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
EGZ7K4	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
EPEZRT	Investigator® 24plex					
	12,17	17,20	10,14	16,17	11,11	
4sp	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11				
EWVND9	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
FFNP3J	GlobalFiler™					
	12,17	17,20	10,14	16,17	11,11	
4sp	8,11	10,15	[13],15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11			2	
FKE2Z2	GlobalFiler™ (STRmix)					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

FLP2YG	PowerPlex® Fusion 6C (STRmix)					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18		
FNVFHF	PowerPlex® Fusion					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				
FQ4E4A	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
FT4YEM	PowerPlex® Fusion, GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14	12,22.2	6,9	8
	16,18	11			2	
FU3X23	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
FZ9QVX	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
GEBEPC	PowerPlex® Fusion 6C (STRmix)					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18		



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

GF3DZ6	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
	16,18	11			2	
GJKXLK	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
	16,18	11			2	
GYBR9J				16,17	11,11	
	4sp	8,11	10,15		8,12	10,11
		11,13		31,32.2		X,Y 10,10
		24,24	11,11	7,14		6,9 8,8
		16,18				
H DUHXD	PowerPlex® Fusion 6C (STRmix)					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	12,22.2	6,9 8
	16,18	11	20	18		
HFXHU4	GlobalFiler™, Argus X-12					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
	16,18	11			2	
HK7Y6D	GlobalFiler™ (STRMIX)					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
	16,18	11			2	
HTKM2Z	PowerPlex® Fusion 6C					
		12,17	17,20	10,14	16,17	11,11
	4sp	8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24	11,11	7,14	12,22.2	6,9 8,8
	16,18	11	20	18		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

HXFECH	GlobalFiler™						
		12,17	17,20	10,14	16,17	11	
	4sp	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24			12,22.2	6,9	8
	16,18	11			2		
J4EHEL	GlobalFiler™						
		12,17	17,20	10,14	16,17	11	
	4sp	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24			12,22.2	6,9	8
	16,18	11			2		
J7PAKG	GlobalFiler™ (ARMED XPERT)						
		12,17	17,20	10,14	16,17	11	
	4sp	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24			12,22.2	6,9	8
	16,18	11			2		
JA6VC4	GlobalFiler™						
		12,17	17,20	10,14	16,17	11	
	4sp	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24			12,22.2	6,9	8
	16,18	11			2		
JDHP7E	PowerPlex® Fusion						
		12,17	17,20	10,14	16,17	11	
	4sp	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24	11	7,14		6,9	8
	16,18	11					
JG9JBW	GlobalFiler™						
		12,17	17,20	10,14	16,17	11	
	4sp	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24			12,22.2	6,9	8
	16,18	11			2		
JKAKFY	PowerPlex® Fusion 6C (STRmix (Version 2.7))						
		12,17	17,20	10,14	16,17	11	
	4sp	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18			

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

KK4QCJ	GlobalFiler™ IQC						
		12,17	17,20	10,14	16,17	11,11	
	4sp	8,11	10,15	15,15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10,10
		24,24			12,22.2	6,9	8,8
	16,18	11			2		
KLWLW8	GlobalFiler™						
		12,17	17,20	10,14	16,17	11	
	4sp	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24			12,22.2	6,9	8
	16,18	11			2		
KNLBWE	GlobalFiler™						
		12,17	17,20	10,14	16,17	11,11	
	4sp	8,11	10,15	15,15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10,10
		24,24			12,22.2	6,9	8,8
	16,18	11			2		
KPVXR8	GlobalFiler™						
		12,17	17,20	10,14	16,17	11	
	4sp	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24			12,22.2	6,9	8
	16,18	11			2		
KWBLKN	ID+						
			17,20		16,17	11	
	4sp	8,11	10,15			8,12	10,11
		11,13	13,14	31,32.2		X,Y	10
		24				6,9	8
	16,18						
L6N8U4	PowerPlex® Fusion						
		12,17	17,20	10,14	16,17	11	
	4sp	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24	11	7,14		6,9	8
	16,18	11					
LDFP67	GlobalFiler™						
		12,17	17,20	10,14	16,17	11,11	
	4sp	8,11	10,15	15,15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10,10
		24,24			12,22.2	6,9	8,8
	16,18	11			2		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

LHQPFB	PowerPlex® 21, GlobalFiler™						
		12,17	17,20	10,14	16,17	11	12,18
	4sp	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24	11	7,14	12,22.2	6,9	8
	16,18	11			2		
LLRVUG	GlobalFiler™ (TrueAllele)						
		12,17	17,20	10,14	16,17	11	
	4sp	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15,(17)	X,Y	10
		24			12,22.2	6,9	8
	16,18	11			2		
LVXLP6	PowerPlex® Fusion						
		12,17	17,20	10,14	16,17	11	
	4sp	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24	11	7,14		6,9	8
	16,18	11					
LXMWWL	Investigator® 24plex						
		12,17	17,20	10,14	16,17	11,11	
	4sp	8,11	10,15	15,15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10,10
		24,24			12,22.2	6,9	8,8
	16,18	11					
M3X9EK	GlobalFiler™						
		12,17	17,20	10,14	16,17	11,11	
	4sp	8,11	10,15	15,15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10,10
		24,24			12,22.2	6,9	8,8
	16,18	11			2		
M86WPZ	PowerPlex® Fusion						
		12,17	17,20	10,14	16,17	11	
	4sp	8,11	10,15	15	15,22	8,12	10,11
		11,13	13,14	31,32.2	11,15	X,Y	10
		24	11	7,14		6,9	8
	16,18	11					
MJFFZF	NGM SElect						
		12,17	17,20	10,14	16,17	N/A	N/A
	4sp	N/A	10,15	15,15	15,22	N/A	10,11
		11,13	13,14	31,32.2	11,15	X,Y	N/A
		24,24	N/A	N/A	12,22.2	6,9	N/A
	16,18	N/A	N/A	N/A	N/A		

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

MPA463	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	6,9	8
	16,18	11				
MTM7TJ	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
	4sp	8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
	16,18	11			2	
MUJGNL	GlobalFiler™ (STRmix)					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
	16,18	11			2	
MVD693	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	6,9	8
	16,18	11				
N84JJJ	Identifiler® Plus					
			17,20		16,17	11,11
	4sp	8,11	10,15			8,12 10,11
		11,13	13,14	31,32.2		X,Y 10,10
		24,24				6,9 8,8
	16,18					
N8HRND	PowerPlex® Fusion 6C					
		12,17	17,20	10,14	16,17	11,11
	4sp	8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24	11,11	7,14	12,22.2	6,9 8,8
	16,18	11	20	18		
NAKWYD	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11,11
	4sp	8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24	11,11	7,14		6,9 8,8
	16,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

NG9BBY	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
	16,18	11			2	
NMYLKW	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
	16,18	11			2	
NQGZQH	Investigator® 24plex QS					
		12,17	17,20	10,14	16,17	11,11
	4sp	8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
	16,18	11				
NVCUQ6	PowerPlex® Fusion 6C (STRmix)					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	12,22.2	6,9 8
	16,18	11	20	18		
NW4TZW	GlobalFiler™ (STRmix)					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
	16,18	11			2	
NW6H9Z	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
	16,18	11			2	
NY8LY2	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14		6,9 8
	16,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

PEHQHZ	PowerPlex® Fusion 5C					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				
PFWTRT	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
PK78CD	Investigator® 24plex					
	12,17	17,20	10,14	16,17	11,11	
4sp	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11				
PMR6EA	PowerPlex® Fusion 6C (STRmix)					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18		
PWFYQ7	Identifiler® Plus					
		17,20		16,17	11,11	
4sp	8,11	10,15			8,12	10,11
	11,13	13,14	31,32.2		X,Y	10,10
	24,24				6,9	8,8
	16,18					
PYN2M4	GlobalFiler™					
	12,17	17,20	10,14	16,17	11,11	
4sp	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11			2	
Q4ETCC	Investigator® 24plex					
	12,17	17,20	10,14	16,17	11,11	
4sp	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

QBV6QC	Investigator® 24plex QS					
	12,17	17,20	10,14	16,17	11,11	
4sp	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11				
QXAXQQ	GlobalFiler™ (STRMix)					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
R4W327	PowerPlex® Fusion 5C					
	12,17	17,20	10,14	16,17	11,11	
4sp	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24	11,11	7,14		6,9	8,8
	16,18	11				
RAJU9Y	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
RHAJJ9	GlobalFiler™					
	12,17	17,20	10,14	16,17	11,11	
4sp	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11,11			2,2	
RZNXZ3	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	--
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	--	--	12,22.2	6,9	8
	16,18	11	--	--	2	
THMBA4	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

TL8FRY	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
4sp		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
TMZ6CF	PowerPlex® PP21 (STRmix)					
		12,17	17,20		16,17	11,11 12,18
4sp		8,11	10,15		15,22	8,12 10,11
		11,13	13,14	31,32.2		X,Y 10,10
		24,24	11,11	7,14		6,9 8,8
		16,18				
TW9Y89	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
TXZ2TN	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
U848RW	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14		6,9 8
		16,18	11			
U84AG2	PowerPlex® Fusion 6C (STRmix)					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	12,22.2	6,9 8
		16,18	11	20	18	
U8JTXR	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

U8MBZW	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	6,9	8
		16,18	11			
UB2Y99	Investigator® 24plex QS					
		12,17	17,20	10,14	16,17	11,11 N/A
4sp		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24	N/A	N/A	12,22.2	6,9 8,8
		16,18	11	N/A	N/A	N/A
UDQ3PU	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	6,9	8
		16,18	11			
UMFMUR	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
UMXWL8	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
UMXWMT	PowerPlex® Fusion					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	6,9	8
		16,18	11			
UNPZ9M	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

UTH4VZ	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
	16,18	11			2	
UTZ9FJ	GlobalFiler™, Argus X-12					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
	16,18	11			2	
VD7R37	PowerPlex® Fusion 5C					
		12,16,17	17,20	10,14	16,17	11,11
	4sp	8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24	11,11	7,14		6,9 8,8
	16,18	11				
VRJFXM	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
	16,18	11			2	
VZF7M4	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
	4sp	8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
	16,18	11			2	
W67PDZ	GlobalFiler™					
		12,17	17,20	10,14	16,17	11 -
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	-	-	12,22.2	6,9 8
	16,18	11	-	-	2	
WBVHBL	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
	4sp	8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
	16,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

WN2HYX	PowerPlex® Fusion 5C					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				
X2KFQK	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
XULNLX	PowerPlex® Fusion 6C (STRmix)					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18		
XVVZYT	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
XWRF8J	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
XZTEN4	PowerPlex® Fusion 6C (STRmix)					
	12,17	17,20	10,14	16,17	11	
4sp	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18		
Y3DQYT	GlobalFiler™					
	12,17	17,20	10,14	16,17	11,11	
4sp	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

Y3ZWMY	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
4sp		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
Y7DWFJ	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
YE863V	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
4sp		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
YFM4KZ	PowerPlex® Fusion 5C					
		12,17	17,20	10,14	16,17	11,11
4sp		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24	11,11	7,14		6,9 8,8
		16,18	11			
YKDJ7L	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
YNRBXE	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
YXKLAV	PowerPlex® Fusion 6C (STRmix)					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	12,22.2	6,9 8
		16,18	11	20	18	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	

## Item 4sp - STR Results

Z7RN7F	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
ZCHXDT	GlobalFiler™					
		12,17	17,20	10,14	16,17	11,11
4sp		8,11	10,15	15,15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10,10
		24,24			12,22.2	6,9 8,8
		16,18	11			2
ZGPLVZ	PowerPlex® Fusion 6C (STRmix)					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24	11	7,14	12,22.2	6,9 8
		16,18	11	20	18	
ZLLAAM	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2
ZUX8GE	GlobalFiler™					
		12,17	17,20	10,14	16,17	11
4sp		8,11	10,15	15	15,22	8,12 10,11
		11,13	13,14	31,32.2	11,15	X,Y 10
		24			12,22.2	6,9 8
		16,18	11			2

# YSTR Amplification Kit(s) & Results

TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 1 - YSTR Results

ETX6AN	Yfiler™								
		No result	No result	No result	No result	No result	No result	No result	No result
1		No result	No result	No result	No result	No result	No result	No result	No result
							No result		No result
MJFFZF	PowerPlex® Y 23								
1									

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 2 - YSTR Results</b>									
22CB48	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
24DP2W	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
2FUAPZ	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
2LY79Z	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
3F9A7U	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
3LDYKT	Yfiler™								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		23
							24		13
3UAL2T	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
49KXGR	Yfiler™								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		23
							24		13
4U4QVT	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
4VH8ZT	Yfiler™								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		23
							24		13
63F2NJ	Yfiler™								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		23
							24		13
6DBH9E	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13



TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 2 - YSTR Results</b>									
6NXEAF	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
6T66DL	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
6YGTDH	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
7QZUZH	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
86BQTW	Yfiler™								
	N/A	15	11,15	13	29	24	11	11	13
2	14	11	10	19	N/A	16	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	24	N/A	13
8APEB8	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
8MCQKW	Yfiler™								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		
							24		13
94G9E2	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
97YK6Q	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
9GFGRA	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
9KJ96G	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
9LU2UN	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		23
		12	12	20	18		24	10	13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 2 - YSTR Results</b>									
9U7DT8	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12	NT	20	18	16	24	NT	13
9WBN4P	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
9WHTM9	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
AAGCG6	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
B6GA6N	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
BFLBQA	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
BFY3JQ	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
BNCU73	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
BW79JN	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
CFDTYN	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
CL2HER	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
CXDVMK	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 2 - YSTR Results</b>									
DX9LJL	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
EGZ7K4	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
EPEZRT	Investigator Argus Y-28 QS								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12	12	20	18	16	24	10	13
ETX6AN	Yfiler™								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		13
							24		13
EWVND9	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
F6LGDL	PowerPlex® Y								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
FFNP3J	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
FNVFHF	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
FQ4E4A	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
FT4YEM	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
GJKXLK	Yfiler™								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
GYBR9J	Yfiler™, PowerPlex® Y 23								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 2 - YSTR Results</b>									
HFHXU4	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
HXFECB	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
J6URJF	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
J7PAKG	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
JA6VC4	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
JDHP7E	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
JG9JBW	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
JKAKFY	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
JYL7VJ	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
KK4QCJ	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
KLWLW8	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
KPVXR8	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 2 - YSTR Results</b>									
LHQPFB	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
LLRVUG	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
M86WPZ	Yfiler™								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		
							24		13
MJFFZF	PowerPlex® Y 23								
	N/A	15	11,15	13	29	24	11	11	13
2	14	11	10	19	N/A	16	15	N/A	23
	N/A	12	12	20	18	N/A	24	10	13
N84JJJ	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
NG9BBY	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
NMYLKW	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
PTGFTE	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
PWFYQ7	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
QBV6QC	Yfiler™								
		15	11,15	13	29	24	11	11	13
2	14	11	10	19		16	15		
							24		13
QXAXQQ	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
RAJU9Y	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

TABLE 2

WebCode		Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
RZNXZ3	Yfiler™									
	--	15	11,15	13	29	24	11	11	13	
2	14	11	10	19	--	16	15	--	--	
	--	--	--	--	--	--	24	--	13	
THMBA4	Yfiler™									
		15	11,15	13	29	24	11	11	13	
2	14	11	10	19		16	15			
							24		13	
TXZ2TN	Yfiler™ Plus									
	38	15	11,15	13	29	24	11	11	13	
2	14	11	10	19	33	16	15	11	23	
	42	12		20	18	16	24		13	
U8JTXR	Yfiler™ Plus									
	38	15	11,15	13	29	24	11	11	13	
2	14	11	10	19	33	16	15	11	23	
	42	12		20	18	16	24		13	
UNPZ9M	Yfiler™ Plus									
	38	15	11,15	13	29	24	11	11	13	
2	14	11	10	19	33	16	15	11	23	
	42	12		20	18	16	24		13	
UTZ9FJ	Yfiler™ Plus									
	38	15	11,15	13	29	24	11	11	13	
2	14	11	10	19	33	16	15	11	23	
	42	12		20	18	16	24		13	
VRJFXM	Yfiler™ Plus									
	38	15	11,15	13	29	24	11	11	13	
2	14	11	10	19	33	16	15	11	23	
	42	12		20	18	16	24		13	
VY3J34	PowerPlex® Y 23									
		15	11,15	13	29	24	11	11	13	
2	14	11	10	19		16	15		23	
		12	12	20	18		24	10	13	
W67PDZ	Yfiler™									
	-	15	11,15	13	29	24	11	11	13	
2	14	11	10	19	-	16	15	-	-	
	-	-	-	-	-	-	24	-	13	
WBVHBL	Yfiler™ Plus									
	38	15	11,15	13	29	24	11	11	13	
2	14	11	10	19	33	16	15	11	23	
	42	12		20	18	16	24		13	
WK2886	PowerPlex® Y 23									
		15	11,15	13	29	24	11	11	13	
2	14	11	10	19		16	15		23	
		12	12	20	18		24	10	13	
WKJBMH	Yfiler™ Plus									
	38	15	11,15	13	29	24	11	11	13	
2	14	11	10	19	33	16	15	11	23	
	42	12		20	18	16	24		13	

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 2 - YSTR Results</b>									
WN2HYX	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
X2KFQK	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
XVZYT	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
XWRF8J	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
Y3ZWMY	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
Y7DWFJ	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
YE863V	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
YKD7L	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
YKDNF3	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
Z7RN7F	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
ZLLAAM	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
2	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 3 - YSTR Results</b>									
24DP2W	Yfiler™ Plus								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
3F9A7U	Yfiler™ Plus								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
3UAL2T	Yfiler™ Plus								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
49KXGR	Yfiler™								
3	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
4U4QVT	Yfiler™ Plus								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
6NXEAF	Yfiler™ Plus								
3									
97YK6Q	Yfiler™ Plus								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
9GFGRA	Yfiler™ Plus								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
B6GA6N	Yfiler™ Plus								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
BW79JN	Yfiler™ Plus								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
CXDVMK	Yfiler™ Plus								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
ETX6AN	Yfiler™								
3	No result	No result	No result	No result	No result	No result	No result	No result	No result
	No result	No result	No result	No result	No result	No result	No result	No result	No result
							No result		No result



TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 3 - YSTR Results

FNVFHF	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
JDHP7E	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
MJFFZF	PowerPlex® Y 23								
	[Redacted]								
	[Redacted]								
QBV6QC	Yfiler™								
	No Result	No Result	No Result	No Result	No Result	No Result	No Result	No Result	No Result
	No Result	No Result	No Result	No Result	No Result	No Result	No Result	No Result	No Result
3	No Result	No Result	No Result	No Result	No Result	No Result	No Result	No Result	No Result
	No Result	No Result	No Result	No Result	No Result	No Result	No Result	No Result	No Result
	No Result	No Result	No Result	No Result	No Result	No Result	No Result	No Result	No Result
WN2HYX	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
Y3ZWMY	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
YE863V	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4 - YSTR Results</b>									
2FUAPZ		15	11,15	13	29	24	11	11	13
4	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
2LY79Z	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
4	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
8MCQKW	Yfiler™								
		15	11,15	13	29	24	11	11	13
4	14	11	10	19		16	15		
							24		13
9WBN4P	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
4	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
CFDTYN	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
4	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
DX9LJL	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
4	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
F6LGDL	PowerPlex® Y								
		15	11,15	13	29	24	11	11	13
4	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
J6URJF	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
4	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
JYL7VJ		15	11,15	13	29	24	11	11	13
4	38	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
PTGFTE		15	11,15	13	29	24	11	11	13
4	38	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
Q4ETCC		15	11,15	13	29	24	11	11	13
4	38	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
VY3J34	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
4	14	11	10	19		16	15		23
		12	12	20	18		24	10	13

TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 4 - YSTR Results

WK2886	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
4	14	11	10	19		16	15		23
		12	12	20	18		24	10	13

TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 4e - YSTR Results

22CB48	PowerPlex® Y 23								
4e									
24DP2W	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
3F9A7U	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
3LDYKT	Yfiler™								
		15	11,15	13	29	24	11	11	13
4e	14	11	10	19		16	15		
							24		13
3UAL2T	Yfiler™ Plus								
	38	15	NR	13	29	24	11	11	13
4e	14	11	NR	NR	33	16	15	NR	23
	42	NR		NR	18	16	24		NR
3Y6C6J	Yfiler™ Plus								
4e									
49KXGR	Yfiler™								
		15	11,15	13	29	24	11	11	13
4e	14	11	10	19		16	15		
							24		13
4U4QVT	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
4VH8ZT	Yfiler™								
		15	11,15	13	29	24	11	11	13
4e	14	11	10	19		16	15		
							24		13
63F2NJ	Yfiler™								
		15	11,15	13	29	24	11	11	13
4e	14	11	10	19		16	15		
							24		13
6DBH9E	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
6NXEAF	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4e - YSTR Results</b>									
6T66DL	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
6YGTDH	Yfiler™ Plus								
4e									
7QZUZH	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
4e	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
86BQTW	Yfiler™								
	N/A	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	N/A	16	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	24	N/A	13
8APEB8	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
94G9E2	Yfiler™ Plus								
4e									
97YK6Q	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
9GFGRA	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
9KJ96G	PowerPlex® Y 23								
4e									
9LU2UN	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
4e	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
9U7DT8	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12	NT	20	18	16	24	NT	13
9WHTM9	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 4e - YSTR Results

AAGCG6	Yfiler™ Plus								
4e	[REDACTED]								
B6GA6N	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
BFLBQA	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
BFY3JQ	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
BNCU73	Yfiler™ Plus								
4e	[REDACTED]								
BW79JN	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
C8JJW7	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
CL2HER	Yfiler™ Plus								
4e	[REDACTED]								
CXDVMK	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
EGZ7K4	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
EPEZRT	Investigator Argus Y-28 QS								
		15	11,15	13	28	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12	12	20	18	16	24	10	13
ETX6AN	Yfiler™								
		15	11,15	13	29	24	11	11	13
4e	14	11	10	19		16	15		13
							24		13

TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 4e - YSTR Results

EWVND9	PowerPlex® Y 23								
4e									
FFNP3J	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
FNVFHF	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
FQ4E4A	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
4e	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
FT4YEM	Yfiler™ Plus								
4e									
GJKXLK	Yfiler™								
4e									
GYBR9J	PowerPlex® Y 23								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
HFXHU4	Yfiler™ Plus								
4e									
HXFECH	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
JA6VC4	Yfiler™ Plus								
	38	15	11	13		24	11	11	13
4e		11		19	33	16	15	11	23
	42			20	18	16	24		13
JDHP7E	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
JG9JBW	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4e - YSTR Results</b>									
JKAKFY	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
KK4QCJ	Yfiler™ Plus								
	38		11,15						13
4e			10		33				23
		12							
KLWLW8	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
KPVXR8	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
LHQPFB	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
LLRVUG	Yfiler™ Plus								
4e									
M86WPZ	Yfiler™								
		15	11,15	13	29	24	11	11	13
4e	14	11	10	19		16	15		
							24		13
MJFFZF	PowerPlex® Y 23								
	N/A	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	N/A	16	15	N/A	23
	N/A	12	12	20	18	N/A	24	10	13
NG9BBY	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
NMYLKW	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
PWFYQ7	Yfiler™ Plus								
4e									
QBV6QC	Yfiler™								
		15	11,15	13	29	24	11	11	13
4e	14	11	10	19		16	15		
							24		13



TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 4e - YSTR Results

QXAXQQ	Yfiler™ Plus								
4e									
RAJU9Y	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
RZNXZ3	Yfiler™								
	--	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	--	16	15	--	--
	--	--	--	--	--	--	24	--	13
THMBA4	Yfiler™								
		15	11,15	13	29	24	11	11	13
4e	14	11	10	19		16	15		
							24		13
TXZ2TN	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
U8JTXR	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
UNPZ9M	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
UTZ9FJ	Yfiler™ Plus								
4e									
VRJFXM	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
W67PDZ	Yfiler™								
	-	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	-	16	15	-	-
	-	-	-	-	-	-	24	-	13
WBVHBL	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
WN2HYX	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

TABLE 2

WebCode	Amplification Kit								
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

## Item 4e - YSTR Results

X2KFQK	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
XVVZYT	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
XWRF8J	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
Y3ZWMY	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
Y7DWFJ	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
YE863V	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
YKDJ7L	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
Z7RN7F	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
ZLLAAM	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4e	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
ZUX8GE	Yfiler™ Plus								
4e									

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4sp - YSTR Results</b>									
22CB48	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	18	16	15	24	23
		12	12	20	18	16	24	10	13
24DP2W	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
3F9A7U	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
3LDYKT	Yfiler™								
		15	11,15	13	29	24	11	11	13
4sp	14	11	10	19		16	15		
							24		13
3UAL2T	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
3Y6C6J	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
49KXGR	Yfiler™								
		15	11,15	13	29	24	11	11	13
4sp	14	11	10	19		16	15		
							24		13
4U4QVT	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
4VH8ZT	Yfiler™								
		15	11,15	13	29	24	11	11	13
4sp	14	11	10	19		16	15		
							24		13
63F2NJ	Yfiler™								
		15	11,15	13	29	24	11	11	13
4sp	14	11	10	19		16	15		
							24		13
6DBH9E	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
6NXEAF	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4sp - YSTR Results</b>									
6T66DL	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
6YGTDH	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
7QZUZH	PowerPlex® Y 23								
4sp									
86BQTW	Yfiler™								
	N/A	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	N/A	16	15	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	24	N/A	13
8APEB8	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
94G9E2	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
97YK6Q	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
9GFGRA	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
9KJ96G	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
4sp	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
9LU2UN	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
4sp	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
9U7DT8	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12	NT	20	18	16	24	NT	13
9WHTM9	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4sp - YSTR Results</b>									
AAGCG6	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
B6GA6N	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
BFLBQA	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
BFY3JQ	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
BNCU73	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
BW79JN	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
C8JJW7	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
CL2HER	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
CXDVMK	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
EGZ7K4	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
EPEZRT	Investigator Argus Y-28 QS								
		15	11,15	13	28	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12	12	20	18	16	24	10	13
ETX6AN	Yfiler™								
		15	11,15	13	29	24	11	11	13
4sp	14	11	10	19		16	15		13
							24		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4sp - YSTR Results</b>									
EWVND9	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
4sp	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
FFNP3J	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
FNVFHF	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
FQ4E4A	PowerPlex® Y 23								
4sp									
FT4YEM	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
GJKXLK	Yfiler™								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
GYBR9J	PowerPlex® Y 23								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
HFXHU4	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
HXFECH	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
J7PAKG									
		15	11,15	13	29	24	11	11	13
4sp	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
JA6VC4	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
JDHP7E	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4sp - YSTR Results</b>									
JG9JBW	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
JKAKFY	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
KK4QCJ	Yfiler™ Plus								
		15		13	29	24	11	11	
4sp	14	11		19		16	15	11	
	42			20	18	16	24		13
KLWLW8	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
KPVXR8	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
LHQPFB	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
LLRVUG	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
M86WPZ	Yfiler™								
		15	11,15	13	29	24	11	11	13
4sp	14	11	10	19		16	15		23
							24		13
MJFFZF	PowerPlex® Y 23								
	N/A	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	N/A	16	15	N/A	23
	N/A	12	12	20	18	N/A	24	10	13
N84JJJ	Yfiler™ Plus								
		15	11,15	13	29	24	11	11	13
4sp	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
NG9BBY	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
NMYLKW	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4sp - YSTR Results</b>									
PWFYQ7	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
QBV6QC	Yfiler™								
		15	11,15	13	29	24	11	11	13
4sp	14	11	10	19		16	15		
							24		13
QXAXQQ	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
RAJU9Y	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
RZNXZ3	Yfiler™								
	--	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	--	16	15	--	--
	--	--	--	--	--	--	24	--	13
THMBA4	Yfiler™								
		15	11,15	13	29	24	11	11	13
4sp	14	11	10	19		16	15		
							24		13
TXZ2TN	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
U8JTXR	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
UNPZ9M	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
UTZ9FJ	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
VRJFXM	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
W67PDZ	Yfiler™								
	-	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	-	16	15	-	-
	-	-	-	-	-	-	24	-	13



TABLE 2

WebCode		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
<b>Item 4sp - YSTR Results</b>									
WBVHBL	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
WN2HYX	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
X2KFQK	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
XVZYT	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
XWRF8J	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
Y3ZWMY	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
Y7DWFJ	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
YE863V	Yfiler™ Plus								
	38,38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
YKDJ7L	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
Z7RN7F	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
ZLLAAM	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
ZUX8GE	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
4sp	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

# Additional DNA Results

## TABLE 3

Additional DNA results found to be concordant at a pre-existing locus are retained solely within the applicable tables. Non-concordant results and results for loci not found elsewhere will remain in this table.

Locus	WebCode	Item 1	Item 2	Item 3	Item 3e	Item 3sp	Item 4	Item 4e	Item 4sp
D10S2325	9D2PYV	11,15	10,11	10,12				10,11,15	10,11
D11S2368	9D2PYV	17,22	18,20	19,23				17,18,20,22	18,20
D13S325	9D2PYV	18,19	20,20	21,21				18,19,20	20,20
D14S1434	9D2PYV	13,13	10,14	10,12				no data	10,11
D15S659	9D2PYV	15,16	12,17	15,17				12,15,16,17	12,17
D17S1301	9D2PYV	11,12	11,12	12,13				11,12	11,12
D18S1364	9D2PYV	17,19	14,18	14,15				14,17,18,19	14,18
D19S253	9D2PYV	9,13	12,12	11,13				9,12,13	12,12
D20S482	9D2PYV	10,14	14,15	13,15				10,14,15	14,15
D21S2055	9D2PYV	20.1,26	25,29	19.1,35				20.1,25,26,29	25,29
D22-GATA198B05	9D2PYV	20,21	17,20	17,17				17,20,21	17,20
D2S1360	9D2PYV	22,25	22,23	21,22				22,23,25	22,23
D3S1744	9D2PYV	15,17	18,19	16,17				15,17,18,19	18,19
D4S2366	9D2PYV	9,10	10,13	11,13				9,10,13	10,13
D5S2500	9D2PYV	11,16	12,16	10,11				11,12,16	12,16
D5S2800	9D2PYV	17,20	14,17	18,18				14,17,20	14,17
D6S474	9D2PYV	15,15	13,13	14,16				13,15	13,13
D7S1517	9D2PYV	21,21	23,25	19,21				21,23,25	23,25
D7S3048	9D2PYV	20,25	20,23	23,25				20,23,25	20,23
D8S1132	9D2PYV	18,22	19,24	20,23				18,19,22,24	19,24
D9S1122	9D2PYV	12,13	10,12	11,13				10,12,13	10,12
DXS10074	BNCU73	7,17	15	15,16					
	HFXHU4	7,17	15	15,16					15
	UTZ9FJ	7,17	15	15,16					15
DXS10079	BNCU73	20,21	20	18,22					
	HFXHU4	20,21	20	18,22					20
	UTZ9FJ	20,21	20	18,22					20

TABLE 3

Locus	WebCode	Item 1	Item 2	Item 3	Item 3e	Item 3sp	Item 4	Item 4e	Item 4sp
DXS10101	BNCU73	29,30.2	29.2	29.2,31.2					
	HFXHU4	29,30.2	29.2	29.2,31.2					29.2
	UTZ9FJ	29,30.2	29.2	29.2,31.2					29.2
DXS10103	BNCU73	19,20	20	19					
	HFXHU4	19,20	20	19					20
	UTZ9FJ	19,20	20	19					20
DXS10134	BNCU73	33,35	37	36,38					
	HFXHU4	33,35	37	36,38					37
	UTZ9FJ	33,35	37	36,38					37
DXS10135	BNCU73	20.1,22	21	20,27					
	HFXHU4	20.1,22	21	20,27					21
	UTZ9FJ	20.1,22	21	20,27					21
DXS10146	BNCU73	33,35.2	28	25,27					
	HFXHU4	33,35.2	28	25,27					28
	UTZ9FJ	33,35.2	28	25,27					28
DXS10148	BNCU73	18,23.1	23.1	26.1,27.1					
	HFXHU4	18,23.1	23.1	26.1,27.1					23.1
	UTZ9FJ	18,23.1	23.1	26.1,27.1					23.1
DXS7132	BNCU73	13	13	13,15					
	HFXHU4	13	13	13,15					13
	UTZ9FJ	13	13	13,15					13
DXS7423	BNCU73	13,14	15	14,15					
	HFXHU4	13,14	15	14,15					15
	UTZ9FJ	13,14	15	14,15					15
DXS8378	BNCU73	11,12	11	12					
	HFXHU4	11,12	11	12					11
	UTZ9FJ	11,12	11	12					11
F13A01	9D2PYV	3.2,6	7,7	6,16				3.2,6,7	7,7
	WYWNW3	3.2,6	7	6,16			7		
F13B	9D2PYV	6,6	9,9	10,10				6,9	9,9
	WYWNW3	6	9	10			9		
FES/FPS	9D2PYV	10,12	11,12	10,12				10,11,12	11,12
	WYWNW3		11,12	10,12			11,12		
HPRTB	BNCU73	13	13	11,12					

TABLE 3

<b>Locus</b>	<b>WebCode</b>	<b>Item 1</b>	<b>Item 2</b>	<b>Item 3</b>	<b>Item 3e</b>	<b>Item 3sp</b>	<b>Item 4</b>	<b>Item 4e</b>	<b>Item 4sp</b>
HPRTB cont'd	HFXHU4	13	13	11,12					13
	UTZ9FJ	13	13	11,12					13
LPL	9D2PYV	10,10	10,12	9,11				10,12	10,12
	WYWNW3	10	10,12	9,11			10,12		
PENTA_C	9D2PYV	9,11	5,11	10,13				5,9,11	5,11
	WYWNW3	9,11	5,11	10,13			5,11		

# DNA Interpretations

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

TABLE 4

WebCode	Victim (Item 1)		Suspect (Item 2)		WebCode	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
22CB48	No	Yes	No	Yes	4UJAD6	No	Yes	No	Yes
24DP2W	No	Yes	No	Yes	4VH8ZT	No	Yes	No	Yes
26TPJZ					63F2NJ	No	Yes	No	Yes
2A963Q	No	Yes	No	Yes	678KDV	No	Yes	No	Yes
2FUAPZ	No	Yes	No	Yes	6C6VVA	No Interp	No Interp	No Interp	No Interp
2JDCHQ	No	Yes	No	Yes	6DBH9E	No	Yes	No	Yes
2LY79Z	No	Yes	No	Yes	6F49JY	No	Yes	No	Yes
2UVWZ2	No	Yes	No	Yes	6KX4HL	No	Yes	No	Yes
3A3BWP	No	Yes	No	Yes	6NXEAF	No	Yes	No	Yes
3A4BV6	No	Yes	No	Yes	6T66DL	No	Yes	No	Yes
3F9A7U	No	Yes	No	Yes	6YGTDH	No	Yes	No	Yes
3JR2GW	No	Yes	No	Yes	79YU9H	No	Yes	No	Yes
3LDYKT	No	Yes	No	Yes	7GR3VU	No	Yes	No	Yes
3UAL2T	No	Yes	No	Yes	7H42P3	No	Yes	No	Yes
3Y6C6J	No Interp	No Interp	No Interp	No Interp	7QZUZH	No	Yes	No	Yes
49KXGR	No	Yes	No	Yes	7UA2BU				
4BTW4L	No	Yes	No	Yes	7UXHDJ	No	Yes	No	Yes
4BTYTQ	No	Yes	No	Yes	7WMJKR	No	Yes	No	Yes
4ERANQ	No	Yes	No	Yes	7ZMVGR	No	Yes	No	Yes
4U4QVT	No	Yes	No	Yes	86BQTW	No	Yes	No	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
8APEB8	No	Yes	No	Yes	ARG3X9	No Interp	No Interp	No Interp	No Interp
8MCQKW	No	No	No	Yes	B6GA6N	No	Yes	No	Yes
8QBVKV					B7ETWH	No	Yes	No	Yes
93MMMV	No	Yes	No	Yes	BCHPQQ	No	Yes	No	Yes
94G9E2	No	Yes	No	Yes	BFLBQA	No	Yes	No	Yes
96PJ9J	No	Yes	No	Yes	BFY3JQ				Yes
97YK6Q	No	Yes	No	Yes	BJLW6	No	Yes	No	Yes
9C6DYL	No	No	No	Yes	BNCU73	No	Yes	No	Yes
9D2PYV	No	Yes	No	Yes	BPQKVD	No	Yes	No	Yes
9FNE8F	No	Yes	No	Yes	BRFM3M	No	Yes	No	Yes
9GFGRA	No	Yes	No	Yes	BRT6WR	No	Yes	No	Yes
9JNP3E	No	Yes	No	Yes	BVW48K	No	Yes	No	Yes
9KJ96G	No	Yes	No	Yes	BW79JN	No	Yes	No	Yes
9LC2ZY	No	Yes	No	Yes	C44BBR	No	Yes	No	Yes
9LU2UN	No	Yes	No	Yes	C8JJW7	No Interp	No Interp	No Interp	No Interp
9NKBUH	No	Yes	No	Yes	CFDTYN	No	Yes	No	Yes
9U7DT8	No	Yes	No	Yes	CGA66P	No	Yes	No	Yes
9WBN4P	No	Yes	No	Yes	CL2HER	No	No	No	Yes
9WHTM9	No	Yes	No	Yes	CUVGED	No	Yes	No	Yes
AAGCG6	No	Yes	No	Yes	CXDVMK	No	Yes	No	Yes
ALUCDY	No	Yes	No	Yes	D2TNBR	No	Yes	No	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
DBGGPA	No	Yes	No	Yes	GJKXLK	No	Yes	No	Yes
DFQNZM	No	Yes	No	Yes	GYBR9J	No	Yes	No	Yes
DMTNLA	No	Yes	No	Yes	HDUHXD	No	Yes	No	Yes
DX9LJL	No	Yes	No	Yes	HFXHU4	No	Yes	No	Yes
E3MWWG	No	Yes	No	Yes	HK7Y6D	No	Yes	No	Yes
E99V73	No	Yes	No	Yes	HTKM2Z	No	Yes	No	Yes
EGZ7K4	No	Yes	No	Yes	HXFECB	No	Yes	No	Yes
EPEZRT	No	Yes	No	Yes	J4EHEL	No	Yes	No	Yes
ETX6AN	No Interp	No Interp	No Interp	Yes	J6URJF	No	Yes	No	Yes
EWVND9	No	Yes	No	Yes	J7PAKG	No	Yes	No	Yes
F6LGDL	No	Inc	No	Yes	JA6VC4	No	Yes	No	Yes
FFNP3J	No	Yes	No	Yes	JDHP7E	No	Yes	No	Yes
FKE2Z2	No	Yes	No	Yes	JG9JBW	No	Yes	No	Yes
FLP2YG	No	Yes	No	Yes	JKAKFY	No	Yes	No	Yes
FNVFHF	No	Yes	No	Yes	JYL7VJ	No	Yes	No	Yes
FQ4E4A	No	Yes	No	Yes	KK4QCJ	No	Yes	No	Yes
FT4YEM	No	No	No	Yes	KLWLW8	No	Yes	No	Yes
FU3X23	No	Yes	No	Yes	KN428J	No	Yes	No	Yes
FZ9QVX	No	Yes	No	Yes	KNLBWE	No	Yes	No	Yes
GEBEPC	No	Yes	No	Yes	KPVXR8	No	Yes	No	Yes
GF3DZ6	No Interp	No Interp	No Interp	No Interp	KWBLKN	No	Yes	No	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
L6N8U4	No	Yes	No	Yes	NW6H9Z	No	Yes	No	Yes
LDFP67	No	Yes	No	Yes	NY8LY2	No	Yes	No	Yes
LHQPFB	No	Yes	No	Yes	NZ34WW	No Interpretations Reported, DNA Analyzed for Database purposes only.			
LLRVUG	No	Yes	No	Yes	PEHQHZ	No	Yes	No	Yes
LVXLP6	No	Yes	No	Yes	PFWTRT	No	Yes	No	Yes
LXMVWL	No	Yes	No	Yes	PK78CD	No	Yes	No	Yes
M3X9EK	No	Yes	No	Yes	PMR6EA	No	Yes	No	Yes
M86WPZ	No	Yes	No	Yes	PTGFTE	No	Yes	No	Yes
MJFFZF	No	Yes	No	Yes	PWFYQ7	No	Yes	No	Yes
MPA463	No	Yes	No	Yes	PYN2M4	No	Yes	No	Yes
MTM7TJ	No	Yes	No	Yes	Q4ETCC	No	Yes	No	Yes
MUJGNL	No	Yes	No	Yes	QBV6QC	No	Yes	No	Yes
MVD693	No	Yes	No	Yes	QXAXQQ	No	Yes	No	Yes
N84JJJ	No	Yes	No	Yes	R4W327	No	Yes	No	Yes
N8HRND	No	Yes	No	Yes	RAJU9Y	No	Yes	No	Yes
NAKWYD	No	Yes	No	Yes	RHAJJ9	No	Yes	No	Yes
NG9BBY	No	Yes	No	Yes	RZNXZ3	No	Yes	No	Yes
NMYLKW	No	Yes	No	Yes	T4BN9M	No Interpretations Reported, DNA Analyzed for Database purposes only.			
NQGZQH	No	Yes	No	Yes	THMBA4	No	Yes	No	Yes
NVCUQ6	No	Yes	No	Yes	TL8FRY	No	Yes	No	Yes
NW4TZW	No	Yes	No	Yes	TMZ6CF	No	Yes	No	Yes



TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
TW9Y89	No	Yes	No	Yes	WKJBMH	No Interpretations Reported, DNA Analyzed for Database purposes only.			
TXZ2TN	No	Yes	No	Yes	WN2HYX	No	Yes	No	Yes
U848RW	No	Yes	No	Yes	WYWNW3	No	No	No	Yes
U84AG2	No	Yes	No	Yes	X2KFQK	No	Yes	No	Yes
U8JTXR	No	Yes	No	Yes	XM7AG7	No	Yes	No	Yes
U8MBZW	No	Yes	No	Yes	XULNLX	No	Yes	No	Yes
UB2Y99	No	Yes	No	Yes	XWZYT	No	Yes	No	Yes
UDQ3PU	No	Yes	No	Yes	XWRF8J	No	Yes	No	Yes
UMFMUR	No	Yes	No	Yes	XZTEN4	No	Yes	No	Yes
UMXWL8	No	Yes	No	Yes	Y3DQYT	No	Yes	No	Yes
UMXWMT	No	Yes	No	Yes	Y3ZWMY	No Interp	No Interp	No Interp	No Interp
UNPZ9M	No	Yes	No	Yes	Y7DWFJ	No	Yes	No	Yes
UTH4VZ	No	Yes	No	Yes	YE863V	No	Yes	No	Yes
UTZ9FJ	No	Yes	No	Yes	YFM4KZ	No	Yes	No	Yes
VD7R37	No	Yes	No	Yes	YKDJ7L	No	Yes	No	Yes
VRJFXM	No	Yes	No	Yes	YKDNF3	No	Yes	No	Yes
VY3J34	No	Inc	No	Yes	YNRBXE	No	Yes	No	Yes
VZF7M4	No	Yes	No	Yes	YXKLAV	No	Yes	No	Yes
W67PDZ	No	Yes	No	Yes	Z7RN7F	No	Yes	No	Yes
WBVHBL	No	Yes	No	Yes	ZCHXDT	No	Yes	No	Yes
WK2886	No	Yes	No	Yes	ZGPLVZ	No	Yes	No	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
ZLLAAM	No	Yes	No	Yes					
ZUX8GE	No Interp	No Interp	No Interp	No Interp					

<b>DNA Interpretation</b>					
<b>Response Summary</b>			<b>Participants reporting DNA results: 210</b>		
<i>Based on results obtained from DNA analysis, could the Victim (Item 1) and/or the Suspect (Item 2) be a contributor to the questioned stains (Items 3 &amp; 4)?</i>					
		Victim (Item 1)		Suspect (Item 2)	
		<u>Item 3</u>	<u>Item 4</u>	<u>Item 3</u>	<u>Item 4</u>
Yes		<b>0</b>	<b>188</b>	<b>0</b>	<b>197</b>
No		<b>195</b>	<b>5</b>	<b>195</b>	<b>0</b>
Inc		<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>
No Interpretation		<b>8</b>	<b>8</b>	<b>8</b>	<b>7</b>
No Response		<b>4</b>	<b>4</b>	<b>4</b>	<b>3</b>

Participants analyzing DNA for database purposes only: 3

# Additional Comments

## TABLE 5

WebCode	Additional Comments
24DP2W	NR= No Results. STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X.
26TPJZ	All called data included. Data analysis and interpretation not performed. Technician performs sample screening and DNA processing through loading on CE instrument.
2UVWZ2	Male screening results: Screening for the presence of male DNA using the Plexor HY real-time PCR system was performed on Item 3: Questioned blood stain from suspect's shirt (pink). Male DNA was not detected on this item. Screening for the presence of male DNA using the Plexor HY real-time PCR system was performed on Item 4: Questioned blood and semen mixture from victim's sheet (off-white). Male DNA was detected on this item. Spermatozoa were observed in the differential slide prepared from item 4
3A4BV6	Screening for the presence of male DNA using Promega's Plexor HY Real-Time PCR System was performed on Item 3 and Item 4. Male DNA was not detected on Item 3: Questioned blood stain from suspect's shirt (pink). Male DNA was detected on Item 4: Questioned blood and semen mixture from victim's sheet (off-white). Spermatozoa were observed by microscopic analysis on Item 4.
3F9A7U	NR = no results
3JR2GW	NR = No DNA Result
3LDYKT	Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using Chelex extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification kit on the Applied Biosystem Real Time Polymerase Chain Reaction (PCR) 7500 system. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using the AmpFISTR Identifiler Plus PCR Amplification Kit on the 9700 GeneAmp PCR system. Y-STR (Y-Short Tandem Repeat) amplification were carried out on Item 2 and Item 4 using the AmpFISTR Y-File PCR amplification kit on the 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on the Applied Biosystems 3500xl Genetic Analyzer with Genemapper ID-X software for Item 1, Item 2, Item 3 and Item 4 (Identifiler Plus). Electrophoresis for Y-File was carried out on the Applied Biosystems 3500xl Genemapper ID-X software for Item 2 and Item 4. Quality Control: Reagent blank, positive control and negative control were carried out throughout the analysis and all give intended results.
3UAL2T	NR = No results. Item 1 not analyzed for Y-STRs. No Y-STR DNA profile obtained for item 3. Partial Y-STR DNA profile obtained for item 4e that is consistent with carryover from item 4sp; additionally, DYF387S1 for item 4e reported as "38" vs. "38,38" (as in item 4sp) due to the potential for dropout (allele below laboratory's defined peak stochastic threshold). Mitochondrial DNA analysis not performed by this laboratory.
3Y6C6J	The known samples were not profiled and no interpretations were reported. Items 3 and 4 were profiled to confirm that the correct results were obtained for the assigned analyst who is proficiency tested in DNA extraction through CE, but not for interpretation. Item 3 was inadvertently extracted using a differential extraction; however, since no DNA was obtained in the sperm cell fraction, the results for the non-sperm cell fraction were reported. The "was a differential extraction performed" was answered "NO" so that the item wouldn't get split into ep adn sp fractions.
49KXGR	Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using Chelex extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using the Quantifiler™ Human DNA Quantification Kit on the Applied Biosystems™ 7500 Real-Time PCR System. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using the AmpFLSTR™ Identifiler™ Plus PCR Amplification Kit on the Applied Biosystems™ GeneAmp™ PCR System 9700. Item 2, Item 3 and Item 4 were amplified using the YFiler™ PCR Amplification Kit on the Applied Biosystems™ GeneAmp™ PCR System 9700. Electrophoresis: Electrophoresis was carried out on the Applied Biosystems™ 3500xL Genetic Analyzer and the data were analyzed using GeneMapper™ ID-X Software v1.5. Quality Control: Reagent Blank, Positive Control and Negative Control were included throughout the analysis and all gave intended results.
4U4QVT	NR = No Results

TABLE 5

WebCode	Additional Comments
4VH8ZT	Extraction: Item 1, Item 2 and Item 4 were extracted using chelex method. Item 3 was extracted using Qiasymphony DNA Investigator Kit via QIAsymphony SP. Quantitation: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio Quantification Kit via QS5 system. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using GlobalFiler on 9700 GeneAmp PCR system. Item 2 and Item 4 were amplified using AMPFLSTR Y-Filer Kit on 9700 GeneAmp PCR System. Electrophoresis: All electrophoresis were carried out using Genetic Analyzer 3500xL. Quality Control: Reagent blank, Positive Control and Negative Control carried out throughout the analysis all gave intended results.
6C6VVA	The known samples were not profiled and no interpretations were reported. Items 3 and 4 were profiled to confirm that the correct results were obtained for the assigned analyst who is proficiency tested in DNA extraction through CE, but not in interpretation of the DNA profiling results.
6F49JY	Screening Results: Screening test not performed on Item 1: Known blood from female victim. Screening test not performed on Item 2: Known blood from male suspect. Screening for the presence of male DNA using the Plexor HY real time PCR system was performed on Item 3: Questioned blood stain from suspect's shirt (pink). Male DNA was not detected on this item. Screening for the presence of male DNA using the Plexor HY real time PCR system was performed on Item 4: Questioned blood and semen mixture from victim's sheet (off-white). Male DNA was detected on this item. Spermatozoa were detected on a slide prepared from Item #4.
6NXEAF	Item 3 amplified using YSTR kit. No amplified product detected.
7H42P3	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.
7UA2BU	Analyst performs data analysis using GeneMapper but does not perform data interpretation or reporting.
8APEB8	NR = No Results
8MCQKW	mRMP item 1 = 2.8E+27. mRMP item 2 = item 4 = 8.6E+28. mRMP item 3 = 9.7E+30.
8QBVKV	Screening for the presence of male DNA using the Plexor HY real time PCR system was performed on Item 3: Questioned blood stain from suspect's shirt (pink) and Item 4: Questioned blood and semen mixture from victim's sheet (off-white). Male DNA was not detected on Item 3. Male DNA was detected on Item 4.
93MMMV	Screening for the presence of Male DNA using Plexor HY Real-Time PCR System was performed on Item 3 and Item 4. Male DNA was not detected on Item 3: Questioned blood stain from suspect's shirt (pink). Male DNA was detected on Item 4: Questioned blood and semen mixture from victim's sheet (off-white). Spermatozoa were observed by microscopic examination of the sperm cell fraction of item 4.
94G9E2	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.
97YK6Q	NR=No Results. STRmix analysis was conducted on this test. Reported data is from analysis using GeneMapper ID-X.
9C6DYL	An at least 2 person mixture was obtained from Item 4E. A primary male component was deduced--- the victim was excluded. Due to the low peak heights of the minor contributor, the mixture (minor contributor) was indistinguishable-- no comparisons/conclusions could be made per our laboratory's mixture policy. Re-amp or re-extraction of the sample was not possible due to the nature of the sample (> 10 times the amt. of male DNA as female DNA between fractions). [Initials] 080221.
9GFGRA	NR = no results

TABLE 5

WebCode	Additional Comments
9U7DT8	NT = not tested. NR = no results.
ARG3X9	The known samples were not profiled and comparisons were not made. DNA profiling of Items 3 and 4 was performed to verify that correct results were obtained for the assigned scientist who is qualified in extraction through CE and does not perform DNA interpretation.
B6GA6N	NR = No Results. STRmix was run on the non-sperm/epithelial fraction of Item 4. Data reported is from analysis using GeneMapper ID-X.
BFY3JQ	Only Y-STR DNA testing performed. Therefore, the female victim (Item 1) was not examined and the blood stain from suspect's shirt (Item 3) was extracted but not amplified due to no male DNA detected at quantitation.
BNCU73	D21S11 results obtained for Items 1, 2 and 3 using the ArgusX-12 kit are concordant with the D21S11 results obtained using the GlobalFiler kit.
BW79JN	NR = No Results. The data reported out in this test is from analysis using GeneMapper ID-X. STRmix analysis was conducted on this test.
C8JJW7	The known samples were not profiled and comparisons were not made. DNA profiling of Items 3 and 4 was performed to verify correct results were obtained for the assigned scientist who is qualified in extraction through CE and does not perform DNA interpretation.
CFDTYN	The profile obtained from Item 3 belongs to an unknown female. The mixed profile seen in Item 4, contains components seen in both the suspect (Item2) and victim (Item1).
CL2HER	According to our laboratory genetic profiles interpretation analysis policies, the genetic profile amplified from Item 4 is reported as a single male profile, therefore it is excluded as a contributor to Item 1. The profile amplified from the differential extraction (epithelial cells) does include Item 1 but is not reported.
CXDVMK	NR = No Results. Item 1 was not tested with YFiler Plus as it is a female known DNA reference sample.

TABLE 5

WebCode	Additional Comments
EPEZRT	<p>PRIMERA: Se determinó un perfil genético mediante los marcadores autosómicos de la muestra biológica de SANGRE (GFZ15152) identificada como tomada a la víctima (Item 1), observándose un perfil genético de un individuo de sexo femenino (X,X), obtenido a través del análisis de los cromosomas sexuales. SEGUNDA: Se determinó un perfil genético mediante los marcadores autosómicos de la muestra biológica de SANGRE (GFZ15153) identificada como tomada al sospechoso (Item 2), observándose un perfil genético de un individuo de sexo masculino (X,Y), obtenido a través del análisis de los cromosomas sexuales. TERCERA: Se determinó un perfil genético mediante los marcadores autosómicos del fragmento recortado de la muestra biológica de SANGRE (GFZ15154) identificada como levantada de la camisa en color rosa que portaba el sospechoso (Item 3), observándose material biológico femenino (X,X), obtenido a través del análisis de los cromosomas sexuales. CUARTA: Se determinó mezcla de perfiles genéticos de al menos dos contribuyentes mediante los marcadores autosómicos del fragmento recortado de la muestra biológica de SANGRE y SEMEN (GFZ15155FF) identificado como levantada de la sabana perteneciente a la víctima (Item 4), observándose material biológico femenino (X,X), obtenido a través del análisis de los cromosomas sexuales. QUINTA: Se determinó un perfil genético mediante los marcadores autosómicos del fragmento recortado de la muestra biológica de SANGRE y SEMEN (GFZ15155FM) identificado como levantada de la sabana perteneciente a la víctima (Item 4), observándose material biológico masculino (X,Y), obtenido a través del análisis de los cromosomas sexuales. SEXTA: Se determinó un perfil genético mediante el análisis del haplotipo de Cromosoma Y de la muestra biológica de SANGRE (GFZ15153) identificada como tomada al sospechoso (Item 2). SEPTIMA: Se determinó un perfil genético mediante el análisis del haplotipo de Cromosoma Y del fragmento recortado de la muestra biológica de SANGRE y SEMEN (GFZ15155FF y FM) identificado como levantada de la sabana perteneciente a la víctima (Item 4). OCTAVA: La probabilidad de que una persona tomada al azar no relacionada y no muestreada tenga este perfil genético (GFZ15152) es de <math>2.586 \times 10^{-25}</math>. NOVENA: La probabilidad de que una persona tomada al azar no relacionada y no muestreada tenga este perfil genético (GFZ15153) es de <math>2.735 \times 10^{-27}</math>. DECIMA: Al ingresar el perfil genético obtenido del SOSPECHOSO (GFZ15153) al software US Y-SRT database arrojó un resultado de 0 en 2762 en la ancestría hispana, con una probabilidad de match de 749 veces más probable que provenga SOSPECHOSO (GFZ15153) o un familiar con relación patrilínea que otra persona seleccionada al azar de la población. DECIMO PRIMERA: Al realizar los cálculos estadísticos de coincidencia de la muestra biológica SANGRE (GFZ15153) identificada como tomada al sospechoso (Item 2) con la muestra biológica de Sangre y Semen (GFZ15155FM) identificado como levantada de la sabana perteneciente a la víctima (Item 4) se obtiene un Índice de coincidencia de <math>3.657 \times 10^{26}</math> y una probabilidad de coincidencia de 99.999999%. DECIMA SEGUNDA: Es <math>5.368 \times 10^{11}</math> veces más probable que el perfil genético de la víctima (Item 1) (GFZ15153) y una persona desconocida no relacionada y tomada al azar de la población sean los contribuyentes a la mezcla de perfiles genéticos obtenida de la muestra biológica de Sangre y Semen (GFZ15155FF) identificada como levantada de la sabana perteneciente a la víctima (Item 4) a que haya sido generada a partir de dos personas desconocidas no relacionadas. Presentando una probabilidad del 99.999999%. DECIMO TERCERA: Es <math>2.608 \times 10^{13}</math> veces más probable que el perfil genético de la sospechoso (Item 2) (GFZ15153) y una persona desconocida no relacionada y tomada al azar de la población sean los contribuyentes a la mezcla de perfiles genéticos obtenida de la muestra biológica de Sangre y Semen (GFZ15155FF) identificada como levantada de la sabana perteneciente a la víctima (Item 4) a que haya sido generada a partir de dos personas desconocidas no relacionadas. Presentando una probabilidad del 99.999999%. DECIMA CUARTA: Al realizar el cotejo entre el perfil genético obtenido mediante haplotipo de cromosoma Y de la muestra biológica SANGRE (GFZ15153) identificada como tomada al sospechoso (Item 2) se observa que CORRESPONDE con el perfil genético obtenido de la muestra biológica de Sangre y Semen (GFZ15155FF y FM) identificada como levantada de la sabana perteneciente a la víctima (Item 4). [Requested translation was not provided by time of publication.]</p>
ETX6AN	<p>Screening for the presence of male DNA using Plexor HY Real-Time PCR System was performed on Item 3 (Questioned blood stain from suspect's shirt (pink)) and Item 4 (Questioned blood and semen mixture from victim's sheet (off-white)). Male DNA was not detected on Item 3. Male DNA was detected on Item 4. Spermatozoa were detected on a slide prepared from item 4.</p>

TABLE 5

WebCode	Additional Comments
FKE2Z2	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.
FNVFHF	NR = no results. STRmix analysis was conducted on Item 4e. Data reported out is from analysis using GeneMapper ID-X.
FT4YEM	According to our laboratory genetic profiles interpretation analysis policies, the genetic profile amplified from Item 4 is reported as a single male profile, therefore it is excluded as a contributor to Item 1. The profile amplified from the differential extraction (epithelial cells) does include Item 1 but is not reported.
GF3DZ6	interpretation was not done and the knowns are not profiled, DNA profiling was performed to verify correct results were obtained for the scientists who is qualified only in DNA extraction through quantitation.
HFXHU4	Results for D21S11 and Amelogenin are concordant between Globalfiler and Argus X-12.
HTKM2Z	ND:NOT DETECTED
JA6VC4	For the YSTR amplification of item 4e (epithelial/non-sperm fraction), drop out was observed at the following loci: DYS389-II, DYS437, DYS385, DYS439 and DYS533. This sample was injected at the maximum validated injection time; initial injection had less recovery. These results are consistent with the Quantifiler Trio Y Target (T.Y) value of 0.015 ng following differential extraction separation. A full single source YSTR profile was developed from item 4S (sperm fraction).
JDHP7E	NR = No Result. STRmix analysis conducted on this test. Data analyzed with GeneMapper ID-X.
JKAKFY	Peaks modeled as stutter for probabilistic genotyping are not included in the allele table per laboratory policy.
KK4QCJ	Item 3: A unique female genetic profile is obtained from blood stain on suspect's pink shirt (Item 3). Many alleles of victim's genetic profile differ from those of the genetic profile obtained from the blood stain on suspect's pink shirt. Therefore, it is possible to conclude that the victim is not the contributor to the blood stain. Item 4: A DNA mixture of at least 2 contributors is obtained from the epithelial fraction of the Item 4. For all the loci analysed and validated in common, all the alleles of victim's and suspect's genetic profiles are found in this DNA mixture. This suggests that victim and suspect's DNA are possible contributors to this mixture. In order to evaluate this possible contribution of victim and suspect DNA to the observed DNA mixture, a statistical assessment is undertaken by calculating the likelihood ratio of two different hypothesis. Knowing that the off-white sheet belong to the victim and that the victim reported that she laid down on the off-white sheet, the prosecutor (Hp) and defense (Hd) hypotheses for this statistical assessment are: Hp: the observed DNA mixture from the epithelial fraction of the Item 4 comes from the victim and the suspect. Hd: the observed DNA mixture from the epithelial fraction of the Item 4 comes from the victim and an other man, unrelated to the suspect. Given the available information, the calculation shows that the probability to obtain the observed DNA mixture from the epithelial fraction of the Item 4 is over 1 billion times greater if Hp is true rather than if Hd is true. A unique male genetic profile was obtained from the spermatoc fraction of the Item 4. For all the loci analysed and validated in common, the suspect's genetic profile and the male genetic profile obtained from the spermatoc fraction of the item 4 are the same. In order to evaluate this match between the suspect's genetic profile and the male genetic profile obtained from the spermatoc fraction of the item 4, a statistical assessment is undertaken by calculating the likelihood ratio of the following hypothesis : Hp: the observed genetic profile from the spermatoc fraction of the Item 4 comes from the suspect. Hd: the observed genetic profile from the spermatoc fraction of the Item 4 comes from an other man, unrelated to the suspect. Given the available information, the calculation shows that the probability to obtain the observed genetic profile from the spermatoc fraction of the Item 4 is over 1 billion times greater if Hp is true rather than if Hd is true.
KNLBWE	[ ] = Lighter intensity allele. NR = No DNA result.

TABLE 5

WebCode	Additional Comments
KWBLKN	The DNA expertise carried out on the four (04) items allowed us to obtain the following results: Victim DNA profile from item 1. Suspect DNA profile from item 2. Exogenous DNA profile obtained from of blood stain revealed on the suspect's shirt (pink) item 3. A DNA mixture of two people of opposite sexes was obtained from the questioned stain from victim's sheet (off-white)) item4 (semen + blood). the mixture ratio obtained is aproximatively 1:2. With the differential extraction the male and female fractions were clearly separated, and two separated profils was obtained. Thanks.
LXMVWL	Screening for the presence of male DNA using the Plexor HY real-time PCR System was performed on Item 3: Questioned blood stain from suspect's shirt (pink) and Item 4: Questioned blood and semen mixture from victim's sheet (off-white). No male DNA was detected on Item 3: Questioned blood stain from suspect's shirt (pink). Male DNA was detected on Item 4: Questioned blood and semen mixture from victim's sheet (off-white). Spermatozoa were seen in differential slide made from item 4.
M3X9EK	[ ] - lighter intensity allele. NR- no DNA results.
MUJGNL	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.
NQGZQH	Screening for the presence of male DNA using Plexor HY real time PCR was performed on Item 3: Questioned blood stain from suspect's shirt and Item 4: Questioned blood and semen mixture from victim's sheet. Male DNA was not detected on item 3. Male DNA was detected on item 4. Spermatozoa were microscopically observed during the differential extraction of item 4.
NZ34WW	This test is for a DNA technician who is qualified in laboratory work for DNA standards only. She does not performs lab work on unknown samples nor does she do analysis/interpretation of DNA data (standards or unknowns). A different analyst analyzed the data from the standards, reported the results and filled out the proficiency test forms.
PK78CD	Spermatozoa were detected by microscopic examination of Item 4. Screening for the presence of male DNA using the Plexor HY System was performed on Items 3 and 4: No male DNA was detected on Item 3. Male DNA was detected on Item 4.
PTGFTE	Victim (Item 1) is the major contributor of stain item 4. Suspect (Item 2) is the minor contributor of stain Item 4.
QBV6QC	Spermatozoa were detected by microscopic examination for item 4
QXAXQQ	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.
RZNXZ3	Extraction: Item 1 and Item 2 were extracted using chelex extraction method, Item 3 was extracted using Qiasymphony DNA invstigator kit via QIAsymphony SP and Item 4 was extracted using differential extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio DNA Quantification kit on Real-Time Polymerase Chain Reaction QuantStudio5 System. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using Global Filer kit on 97000 GeneAmp PCR System. Y-STR amplification was carried out on Item 2 and Item 4 using AmFLSTR kit on 97000 GeneAmp PCR System. Electrophoresis: Electrophoresis of GlobalFiler for Item 1, Item 2, Item 3 and Item 4 and Y-filer for Item 2 and Item 4 were carried out on GeneticAnalyzer 3500xL. NM: Non-male. Quality Control: reagent blank, positive control and negative control were incorporated throughout analysis and all gave intended results.



TABLE 5

WebCode	Additional Comments
THMBA4	Extraction: Item 1 and Item 2 were extracted using chelex method. Item 3 was extracted using Qiasymphony DNA Investigator Kit via QIASymphony SP. Item 4 was extracted using differential extraction method. Quantitation: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio DNA Quantification Kit via QS5 system. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using GlobalFiler kit on 9700 GeneAmp PCR system. Item 2 and Item 4 were amplified using AMPFLSTR Y-Filer Kit on 9700 GeneAmp PCR System. Electrophoresis: All electrophoresis for item 1 to item 4 were carried out using Genetic Analyzer 3500xL. Quality Control: Reagent blank, Positive Control and Negative Control carried out throughout the analysis all gave intended results. NM: Non-male.
UTZ9FJ	The Additional Loci are X-STR loci from the Argus X-12 kit. D21S11 and Amelogenin results are concordant between the Argus X-12 kit and the Globalfiler kit. X-STR typing was only performed on single source samples as X-STR mixtures are not interpreted under current procedures.
VRJFXM	NR = No Results
VZF7M4	NR = No DNA result
W67PDZ	Extraction: Item 1, Item 2 and Item 4 were extracted using chelex method. Item 3 were extracted using QIASymph method. Quantitation: Item 1, Item 2, Item 3 and Item 4 were quantified using Quantifiler Trio Kit via QuantStudio5. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using GlobalFiler Kit on 9700 GeneAmp PCR System. Item 2 and Item 4 were amplified using AMPFLSTR Y-Filer Kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis for GlobalFiler PCR products of Item 1, Item 2, Item 3 and Item 4 were carried out using Genetic Analyzer 3500xl. Electrophoresis for YFiler PCR products of Item 2 and Item 4 were carried out using Genetic Analyzer 3500xl. Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
WN2HYX	STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X. NR = no results.
Y3DQYT	Differential separation was performed on Item 3. Item 3s (sperm fraction) was stop at quant for no DNA. For Item 4e (non-sperm fraction), TPOX and D5S818 were indistinguishable per lab's policy to separate out major and minor alleles.
Y3ZWMY	DNA analysis was performed for technician competency, therefore, no interpretations were made. NR = No results.
YE863V	Female known (Item 1) was not amplified for Y-STR. NR = No Result.
Z7RN7F	All alleles left in at DYS391 in GlobalFiler samples due to interpretation guidelines.
ZUX8GE	The known samples were not profiled and no interpretations were reported. Items 3 and 4 were profiled to confirm that the correct results were obtained for the assigned analyst who is proficiency testing in DNA extraction through CE, but not in interpretation of the DNA profiling results. The 10 allele at DYS391 for Item 4 ep is most likely stutter; however, this locus is not interpreted for GF results, so stutter is not clicked off.

-End of Report-  
(Appendix may follow)

Collaborative Testing Services ~ Forensic Testing Program

**Test No. 21-5804: DNA-Semen**

DATA MUST BE SUBMITTED BY **Sept. 7, 2021, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A

WebCode: 7V9X96

The Accreditation Release section can be accessed by using the "Continue to Final Submission" button above. This information can be entered at any time prior to submitting to CTS.

**Scenario:**

Police are investigating a sexual assault involving a female victim and male suspect. The victim reports that she went on a date with a coworker to the drive-in movies. The victim reports they used her car for the date and she had laid down an off-white colored sheet in the back of the car to lay on. She told police that at one point the suspect began physically and sexually assaulting her. The female has several cuts and bruises, but has denied medical attention. Investigators have collected the suspect's pink shirt worn during the night of the date (Item 3) and the off-white sheet from the car (Item 4). Screening tests have already been performed on the items with the following results: Item 3 (the suspect's shirt) is positive for blood, and Item 4 (the victim's sheet) is positive for blood and semen. Also collected were known blood samples from the female victim (Item 1) and the male suspect (Item 2).

**Items Submitted (Sample Pack S4):**

Item 1: Known blood from female victim

Item 2: Known blood from male suspect

Item 3: Questioned blood stain from suspect's shirt (pink)

Item 4: Questioned blood and semen mixture from victim's sheet (off-white)











## Part II: DNA INTERPRETATION

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

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

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

## Part III: ADDITIONAL COMMENTS

- Use this section to report comments regarding any part of this test.
- Written conclusions (including statistical information) for DNA analysis are not required.
- Any interpretations based on the results obtained should be indicated in the section above.
- Note: Laboratories submitting their results for 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.

**Please note:** Any additional formatting applied in the free form space below will not transfer to the Summary Report and may cause your information to be illegible. This includes additional spacing and returns that present your responses in lists and tabular formats.



## RELEASE OF DATA TO ACCREDITATION BODIES

The Accreditation Release is accessed by pressing the "Continue to Final Submission" button online and can be completed at any time prior to submission to CTS.

CTS submits external proficiency test data directly to ASCLD/LAB, ANAB, and/or 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 below must be completed.)
- This participant's data is **not** intended for submission to ASCLD/LAB, ANAB, and/or A2LA.

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.

ANAB Certificate No.   
(Include ASCLD/LAB Certificate here)

A2LA Certificate No.

### Step 2: Complete the Laboratory Identifying Information in its entirety

Authorized Contact Person and Title

Laboratory Name

Location (City/State)