



## **DNA-Mixture Test No. 18-5801**

### **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 156 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 clean, white muslin fabric (Items 1 & 2), and two questioned stains; one on clean light yellow fabric (Item 3) and one on clean, chocolate brown 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 received frozen from an outside supplier. The semen sample was first thawed and mixed 1:1 with TAE buffer, then mixed 1:1 with the blood. Items 1 (50  $\mu$ l) and 3 (50  $\mu$ l) were each created using blood from the same female donor. Item 2 (50  $\mu$ l) was created using blood collected from a male donor. Item 4 (50  $\mu$ l) was a 1:1 mixture that was prepared using blood from the female used for Items 1 & 3 and semen from a third party male whose known standard was not provided. Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on January 05, 2018 following completion of verification stage.

**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. Allelic results were consistent for all STR and YSTR loci with the exception of D1S1656 for Item 2. One predistribution laboratory reported a variant of the allele submitted by the other two predistribution laboratories. After an investigation, no changes were deemed necessary prior to distribution.

## Manufacturer's Information, continued

### Amelogenin and STR Results

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

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	
<hr style="border-top: 1px dashed black;"/>						
1	16.3,17.3	17,23	10,14	14,15	7,12	*
	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15	18,29.2	6,7	11,11
	17,18	N/A	N/A	N/A	N/A	
<hr style="border-top: 1px dashed black;"/>						
2	15,17.1	17,23	10,14	17,17	11,11	*
	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12	16,23.2	7,8	8,12
	15,17	11	17	18	2	
<hr style="border-top: 1px dashed black;"/>						
3	16.3,17.3	17,23	10,14	14,15	7,12	*
	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15	18,29.2	6,7	11,11
	17,18	N/A	N/A	N/A	N/A	
<hr style="border-top: 1px dashed black;"/>						
4-Blood	16.3,17.3	17,23	10,14	14,15	7,12	*
	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15	18,29.2	6,7	11,11
	17,18	N/A	N/A	N/A	N/A	
<hr style="border-top: 1px dashed black;"/>						
4-Semen	14,17.3	20,22	10,14	16,18	11,12	*
	11,11	13,14	14,14	17,21	8,12	8,9
	15,18	14,14	30,31.2	15,16	X,Y	10,11
	20,25	6,12	10,13	25.2,30.2	7,9.3	10,11
	14,18	11	18	19	2	

### YSTR Results

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

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	YGATAH4
<hr style="border-top: 1px dashed black;"/>									
2	35,39	14	14,15	12	29	24	11	14	13
	14	11	12	19	29	15	14	10	23
	42	11	12	17	18	21	22	10	12
<hr style="border-top: 1px dashed black;"/>									
4-Semen	35,35	14	11,14	13	29	21	11	13	13
	15	12	12	19	30	18	18	10	23
	37	13	13	18	19	22	23	10	12

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

## **Summary Comments**

The DNA-Mixture test is part of the DNA Sample Specific Series; where participants are advised of the body fluid(s) that make up the questioned stains. The test is designed to allow participants to assess their proficiency in the analysis of dried stains containing potential mixtures. Participants were supplied with two "known" bloodstains (Items 1 and 2) and two "questioned" stains (Items 3 and 4). Items 1 and 3 were created using blood from a female donor. Item 2 was created using blood collected from a male donor. Item 4 was a mixture containing blood from the Item 1 female donor and semen from a third party male whose known standard was not provided. (See Manufacturer's Information for preparation details)

All 156 participants that returned results reported DNA interpretations.

For the Item 3 stain, all 156 participants included the victim (Item 1) as a possible contributor. There were 155 participants that excluded the suspect (Item 2), while one participant included the suspect as a possible contributor to the Item 3 stain. This one participant reported additional alleles in Item 3 that were consistent with the Item 2 profile.

For the Item 4 stain, there were 148 participants that included the victim (Item 1) as a possible contributor, while three participants excluded the victim and five reported inconclusive results. These inconsistent interpretations correspond to the DNA results they returned for Item 4. All 156 participants excluded the suspect (Item 2) as a possible contributor for the Item 4 stain.

Twenty participants reported allelic results that differed from the consensus/predistribution results. Of these, 17 participants were missing alleles at one or more loci. Fourteen of these participants were missing alleles from the female fraction of Item 4 with two solely reporting the male fraction. Finally, there were three participants that reported additional allelic results at one or more loci.

# 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

22ME94	GlobalFiler™ Express					
	16.3,*	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,*	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11,11
	17,18	nr			nr	
<hr/>						
2932UT	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11,11
	17,18	NR			NR	
<hr/>						
29HLEP	PowerPlex® Fusion					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
<hr/>						
2EV7QH	GlobalFiler™ Express					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18	NR			NR	
<hr/>						
2VHK4A	PowerPlex® Fusion					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15	18,29.2	6,7	11
	17,18					
<hr/>						
2XLHDG	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11,11
	17,18					

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 1 - STR Results

33T7QJ	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	Not Tested
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X,X	7,11
	24,25	Not Tested	Not Tested	18,29.2	6,7	11
	17,18	No Result	Not Tested	Not Tested	No Result	
38NWWU	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11
	17,18	-			-	
39X8NR	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					
3BN73P	PowerPlex® Fusion					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
3HNMH3	PowerPlex® Fusion					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18	NR				
3TQW8Z	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11,11
	17,18					
3UZ4AT	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11,11
	17,18					

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 1 - STR Results

3VBUCH	ESI					
		16.3,17.3	17,23	10,14	14,15	
1			13,14	15,16	18,18	11,13
		12,17	13,13	29,31.2	11,17	X,X
		24,25			18,29.2	6,7
		17,18				
43BPW2	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
1		8,12	13,14	15,16	18,18	12,12 11,13
		12,17	13,13	29,31.2	11,17	X,X 7,11
		24,25			18,29.2	6,7 11,11
		17,18				
4K7AMU	PowerPlex® Fusion					
		16.3,17.3	17,23	10,14	14,15	7,12
1		8,12	13,14	15,16	18	12 11,13
		12,17	13	29,31.2	11,17	X 7,11
		24,25	9,14	11,15		6,7 11
		17,18				
4L3MAM	PowerPlex® Fusion					
		16.3,17.3	17,23	10,14	14,15	7,12
1		8,12	13,14	15,16	18	12 11,13
		12,17	13	29,31.2	11,17	X 7,11
		24,25	9,14	11,15		6,7 11
		17,18				
4QEPWJ	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
1		8,12	13,14	15,16	18	12 11,13
		12,17	13	29,31.2	11,17	X 7,11
		24,25			18,29.2	6,7 11
		17,18				
62A26P	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
1		8,12	13,14	15,16	18	12 11,13
		12,17	13	29,31.2	11,17	X 7,11
		24,25			18,29.2	6,7 11
		17,18				
6FRJQL	Identifiler®					
			17,23		14,15	7,12
1		8,12	13,14			12,12 11,13
		12,17	13,13	29,31.2		X,X 7,11
		24,25				6,7 11,11
		17,18				

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 1 - STR Results

6KPNE6	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11,11
	17,18					
6LGYGD	Identifiler® Plus					
		17,23		14,15	7,12	
1	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					
6WZ6ZF	PowerPlex® Fusion 6C (STRmix)					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15	18,29.2	6,7	11,11
	17,18					
6ZWUGM	PowerPlex® Fusion					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
7262JF	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					
73JPK8	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					
7DZCU9	PowerPlex® Fusion 5C					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18					



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 1 - STR Results

7JRGPX	Identifiler® Plus					
		17,23		14,15	7,12	
1	8,12	13,14			12	11,13
	12,17	13	29,31.2		X,X	7,11
	24,25				6,7	11
	17,18					
7KHM7N	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11,11
	17,18					
7LXEAL	Identifiler® Plus					
		17,23		14,15	7,12	
1	8,12	13,14			12,12	11,13
	12,17	13,13	29,31.2		X,X	7,11
	24,25				6,7	11,11
	17,18					
7QAVQH	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11,11
	17,18					
7X6V3P	NGM SElect					
	16.3,17.3	17,23	10,14	14,15		
1		13,14	15,16	18,18		11,13
	12,17	13,13	29,31.2	11,17	X,X	
	24,25			18,29.2	6,7	
	17,18					
84TYBJ	PowerPlex® Fusion					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
88PGPY	PowerPlex® Fusion					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18	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 1 - STR Results

9P6AR8	Investigator® 24plex					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					
9WNFNE	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	XX	7,11
	24,25			18,29.2	6,7	11
	17,18					
A2G2U8	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	XX	7,11
	24,25			18,29.2	6,7	11,11
	17,18	NR			NR	
AJVDMX	GlobalFiler™ Express					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18	NR			NR	
AVCZWY	GlobalFiler™ Express					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18	NR			NR	
B2WFZW	GlobalFiler™ Express					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18	no results			no results	
B73BJW	GlobalFiler™ Express					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18	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 1 - STR Results

BA7CVA	Identifiler® Plus					
		17,23		14,15	7,12	
1	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					
BDTEXU	GlobalFiler™ Express					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	XX	7,11
	24,25			18,29.2	6,7	11,11
	17,18	NR			NR	
BMQL7Y	Identifiler® Plus					
		17,23		14,15	7,12	
1	8,12	13,14			12,12	11,13
	12,17	13,13	29,31.2		XX	7,11
	24,25				6,7	11,11
	17,18					
BN472U	PowerPlex® 21					
	16.3,17.3	17,23		14,15	7,12	12,21.3
1	8,12	13,14		18,18	12,12	11,13
	12,17	13,13	29,31.2		XX	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18					
BN7NBL	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	XX	7,11
	24,25			18,29.2	6,7	11
	17,18	-			-	
BPEX64	PowerPlex® Fusion 5C					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	XX	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18					
BTY4NY	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	XX	7,11
	24,25			18,29.2	6,7	11,11
	17,18					

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 1 - STR Results

BV83Y9	GlobalFiler™ Express					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18	NR			NR	
C7HU29	PowerPlex® Fusion 5C					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
C8VLR4	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					
CD2M4E	Identifiler®					
		17,23		14,15	7,12	
1	8,12	13,14			12,12	11,13
	12,17	13,13	29,31.2		X,X	7,11
	24,25				6,7	11,11
	17,18					
CN2T6K	PowerPlex® Fusion					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
CQMZHA	NGM					
	16,3,17,3	17,23	10,14	14,15		
1		13,14	15,16	18,18		11,13
	12,17	13,13	29,31.2	11,17	X,X	
	24,25				6,7	
	17,18					
CQPBR9	PowerPlex® Fusion 6C					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15	18,29.2	6,7	11,11
	17,18	ND	ND	ND		

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

CY6BVB	Identifiler® 16, Plus (1708118)					
		17,23		14,15	7,12	
1	8,12	13,14			12,12	11,13
	12,17	13,13	29,31.2		X,X	7,11
	24,25				6,7	11,11
	17,18					
D68ATY	PowerPlex® Fusion 6C					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15	18,29.2	6,7	11,11
	17,18					
DCJQZY	Identifiler® Plus					
		17,23		14,15	7,12	
1	8,12	13,14			12	11,13
	12,17	13	29,31.2		X,X	7,11
	24,25				6,7	11
	17,18					
DHAZ9B	PowerPlex® Fusion					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
ECKV2T	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11,11
	17,18					
EMFWRB	PowerPlex® Fusion					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
ERCB78	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					

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 1 - STR Results

EU4E89	GlobalFiler™						
		16.3,17.3	17,23	10,14	14,15	7,12	
	1	8,12	13,14	15,16	18	12	11,13
		12,17	13	29,31.2	11,17	X	7,11
		24,25			18,29.2	6,7	11
	17,18						
EYA94P	Identifiler® Plus						
			17,23		14,15	7,12	
	1	8,12	13,14			12	11,13
		12,17	13	29,31.2		X,X	7,11
		24,25				6,7	11
	17,18						
EZPMHQ	PowerPlex® 21 (STRmix)						
		16.3,17.3	17,23		14,15	7,12	12,21.3
	1	8,12	13,14		18,18	12,12	11,13
		12,17	13,13	29,31.2		X,X	7,11
		24,25	9,14	11,15		6,7	11,11
	17,18						
F6VKGW	Identifiler® Plus						
			17,23		14,15	7,12	
	1	8,12	13,14			12	11,13
		12,17	13	29,31.2		X,X	7,11
		24,25				6,7	11
	17,18						
F82AJ7	PowerPlex® Fusion 6C (STRMix)						
		16.3,17.3	17,23	10,14	14,15	7,12	
	1	8,12	13,14	15,16	18,18	12,12	11,13
		12,17	13,13	29,31.2	11,17	X,X	7,11
		24,25	9,14	11,15	18,29.2	6,7	11,11
	17,18						
F8KWF3	GlobalFiler™						
		16.3,17.3	17,23	10,14	14,15	7,12	
	1	8,12	13,14	15,16	18,18	12,12	11,13
		12,17	13,13	29,31.2	11,17	X,X	7,11
		24,25			18,29.2	6,7	11,11
	17,18	NR			NR		
FD9GJH	PowerPlex® Fusion						
		16.3,17.3	17,23	10,14	14,15	7,12	
	1	8,12	13,14	15,16	18	12	11,13
		12,17	13	29,31.2	11,17	X	7,11
		24,25	9,14	11,15		6,7	11
	17,18						

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 1 - STR Results

FDPRY3	GlobalFiler™						
		16.3,17.3	17,23	10,14	14,15	7,12	
	1	8,12	13,14	15,16	18,18	12,12	11,13
		12,17	13,13	29,31.2	11,17	X,X	7,11
		24,25			18,29.2	6,7	11,11
		17,18	---			---	
FUD3L6	GlobalFiler™ (Lab Retriever)						
		16.3,17.3	17,23	10,14	14,15	7,12	
	1	8,12	13,14	15,16	18	12	11,13
		12,17	13	29,31.2	11,17	X	7,11
		24,25			18,29.2	6,7	11
		17,18					
FZ4DXN	Identifiler® Plus						
			17,23		14,15	7,12	
	1	8,12	13,14			12	11,13
		12,17	13	29,31.2		X,X	7,11
		24,25				6,7	11
		17,18					
GB2GZW	PowerPlex® Fusion						
		16.3,17.3	17,23	10,14	14,15	7,12	
	1	8,12	13,14	15,16	18,18	12,12	11,13
		12,17	13,13	29,31.2	11,17	X,X	7,11
		24,25	9,14	11,15		6,7	11,11
		17,18					
GBF62N	PowerPlex® Fusion						
		16.3,17.3	17,23	10,14	14,15	7,12	
	1	8,12	13,14	15,16	18	12	11,13
		12,17	13	29,31.2	11,17	X	7,11
		24,25	9,14	11,15		6,7	11
		17,18	NR				
GFF6ME	GlobalFiler™						
		16.3,17.3	17,23	10,14	14,15	7,12	
	1	8,12	13,14	15,16	18,18	12,12	11,13
		12,17	13,13	29,31.2	11,17	X,X	7,11
		24,25			18,29.2	6,7	11,11
		17,18					
GVL6YA	Identifiler® Plus, PowerPlex® Fusion						
		16.3,17.3	17,23	10,14	14,15	7,12	
	1	8,12	13,14	15,16	18	12	11,13
		12,17	13	29,31.2	11,17	X	7,11
		24,25	9,14	11,15		6,7	11
		17,18					

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 1 - STR Results

GWXC9B	PowerPlex® Fusion					
		16.3,17.3	17,23	10,14	14,15	7,12
	1	8,12	13,14	15,16	18	11,13
		12,17	13	29,31.2	11,17	X
		24,25	9,14	11,15		6,7
	17,18					11
<hr/>						
GXBW8D	PowerPlex® Fusion					
		16.3,17.3	17,23	10,14	14,15	7,12
	1	8,12	13,14	15,16	18	11,13
		12,17	13	29,31.2	11,17	X
		24,25	9,14	11,15		6,7
	17,18					11
<hr/>						
H4W NXZ	Identifiler® Plus					
			17,23		14,15	7,12
	1	8,12	13,14			11,13
		12,17	13	29,31.2		X
		24,25				6,7
	17,18					11
<hr/>						
H8A4CB	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
	1	8,12	13,14	15,16	18,18	12,12
		12,17	13,13	29,31.2	11,17	X,X
		24,25			18,29.2	6,7
	17,18	NR				11,11
						NR
<hr/>						
HMQW4N	PowerPlex® Fusion					
		16.3,17.3	17,23	10,14	14,15	7,12
	1	8,12	13,14	15,16	18	11,13
		12,17	13	29,31.2	11,17	X
		24,25	9,14	11,15		6,7
	17,18	NR				11
<hr/>						
HZAJAF	PowerPlex® Fusion					
		16.3,17.3	17,23	10,14	14,15	7,12
	1	8,12	13,14	15,16	18	11,13
		12,17	13	29,31.2	11,17	X
		24,25	9,14	11,15		6,7
	17,18					11
<hr/>						
J47ME8	PowerPlex® Fusion					
		16.3,17.3	17,23	10,14	14,15	7,12
	1	8,12	13,14	15,16	18	11,13
		12,17	13	29,31.2	11,17	X
		24,25	9,14	11,15		6,7
	17,18					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 1 - STR Results

J49DKP	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					
JQP3A2	Identifiler® Plus					
		17,23		14,15	7,12	
1	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					
K2FEXX	Identifiler® Plus					
		17,23		14,15	7,12	
1	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					
K4ACH6	PowerPlex® Fusion					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
KH9GMV	PowerPlex® Fusion 5C					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18					
KRWCLB	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11
	17,18					
KTRQBP	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					

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 1 - STR Results

KVR264	PowerPlex® Fusion 5C					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
KYC2BB	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					
L2JJ8L	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					
L3UZ8Z	Identifiler®					
		17,23		14,15	7,12	
1	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					
L43HEP	Identifiler® Plus, PowerPlex® 21					
	16,3,17,3	17,23		14,15	7,12	12,21.3
1	8,12	13,14		18,18	12,12	11,13
	12,17	13,13	29,31.2		X,X	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18					
L44HC4	PowerPlex® Fusion					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
LE4AJA	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11
	17,18	-			-	

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 1 - STR Results

LFYN9M	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					
LHMZ8T	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	XX	7,11
	24,25			18,29.2	6,7	11
	17,18					
LQVWQP	Identifiler®					
		17,23		14,15	7,12	
1	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					
LYBDLK	PowerPlex® Fusion 5C					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18	NR				
M6UZTV	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	XX	7,11
	24,25			18,29.2	6,7	11
	17,18	NR			NR	
M6Y97P	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	XX	7,11
	24,25			18,29.2	6,7	11,11
	17,18					
MCV479	PowerPlex® Fusion					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					

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 1 - STR Results

MD6RAZ	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					
MFEAHP	PowerPlex® Fusion					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18	-				
MFR29K	GlobalFiler™ Express					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18	NR			NR	
N3ZUNP	PowerPlex® Fusion					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18					
N9LPM8	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11
	17,18					
NMRTZE	PowerPlex® Fusion 6C					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15	18,29.2	6,7	11,11
	17,18	ND	ND	ND		
NY3237	PowerPlex® Fusion					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					

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 1 - STR Results

NYK2XV	GlobalFiler™ Express						
		16.3,17.3	17,23	10,14	14,15	7,12	
	1	8,12	13,14	15,16	18	12	11,13
		12,17	13	29,31.2	11,17	X	7,11
		24,25			18,29.2	6,7	11
		17,18	No Result			No Result	
P7ZF2D	GlobalFiler™						
		16.3,17.3	17,23	10,14	14,15	7,12	
	1	8,12	13,14	15,16	18,18	12,12	11,13
		12,17	13,13	29,31.2	11,17	X,X	7,11
		24,25			18,29.2	6,7	11,11
		17,18					
PTXPKE	Identifiler® Plus						
			17,23		14,15	7,12	
	1	8,12	13,14			12,12	11,13
		12,17	13,13	29,31.2		X,X	7,11
		24,25				6,7	11,11
		17,18					
PUL8BE	PowerPlex® Fusion						
		16.3,17.3	17,23	10,14	14,15	7,12	
	1	8,12	13,14	15,16	18	12	11,13
		12,17	13	29,31.2	11,17	X	7,11
		24,25	9,14	11,15		6,7	11
		17,18					
Q3AH3L	GlobalFiler™						
		16.3,17.3	17,23	10,14	14,15	7,12	
	1	8,12	13,14	15,16	18,18	12,12	11,13
		12,17	13,13	29,31.2	11,17	X,X	7,11
		24,25			18,29.2	6,7	11,11
		17,18					
Q7T6MZ	Identifiler® Plus						
			17,23		14,15	7,12	
	1	8,12	13,14			12,12	11,13
		12,17	13,13	29,31.2		X,X	7,11
		24,25				6,7	11,11
		17,18					
Q8METG	GlobalFiler™						
		16.3,17.3	17,23	10,14	14,15	7,12	
	1	8,12	13,14	15,16	18	12	11,13
		12,17	13	29,31.2	11,17	X	7,11
		24,25			18,29.2	6,7	11
		17,18					

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 1 - STR Results

QFG96T	GlobalFiler™ Express					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18	no results			no results	
QGARW2	PowerPlex® Fusion 6C (RMP with Familias 3)					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15	18,29.2	6,7	11,11
	17,18					
QJ37HB	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11,11
	17,18					
QLM6NT	GlobalFiler™ Express					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18	No Results			No Results	
QPP9RW	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					
RABYB7	PowerPlex® Fusion					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
RAR92L	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					

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 1 - STR Results

RKP9FB	Identifiler® Plus					
	-	17,23	-	14,15	7,12	-
1	8,12	13,14	-	-	12	11,13
	12,17	13	29,31.2	-	X,X	7,11
	24,25	-	-	-	6,7	11
	17,18	-	-	-	-	-
TUERLQ	Identifiler® Plus					
		17,23		14,15	7,12	
1	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					
TUXWDH	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11,11
	17,18					
U6PJNQ	Identifiler® Plus					
		17,23		14,15	7,12	
1	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					
UBFTYN	Identifiler® Plus					
		17,23		14,15	7,12	
1	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					
UQPCGT	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11
	17,18					
VAWYHR	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					

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 1 - STR Results

VKDJA4	PowerPlex® Fusion					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18	NR				
VQ4W4C	GlobalFiler™ Express					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18	NR			NR	
VQJFMA	PowerPlex® Fusion 5C					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18	NR				
VUNFYM	Identifiler® Plus					
		17,23		14,15	7,12	
1	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					
WB44LM	Identifiler® Plus					
		17,23		14,15	7,12	
1	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					
X8GGBR	PowerPlex® Fusion					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
X8GGDC	Identifiler®					
		17,23		14,15	7,12	
1	8,12	13,14			12,12	11,13
	12,17	13,13	29,31.2		X,X	7,11
	24,25				6,7	11,11
	17,18					



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 1 - STR Results

X8NGK8	PowerPlex® 21					
	16,3,17,3	17,23		14,15	7,12	12,21.3
1	8,12	13,14		18,18	12,12	11,13
	12,17	13,13	29,31.2		X,X	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18					
XL3UR8	PowerPlex® Fusion					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18	NR				
XMH7F6	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	N/A
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	N/A	N/A	18,29.2	6,7	11,11
	17,18	N/A	N/A	N/A	N/A	
XRCPWG	PowerPlex® Fusion 5C					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18					
XUUAEQ	PowerPlex® Fusion					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
XUW83N	Identifiler® Plus					
		17,23		14,15	7,12	
1	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					
XYN74G	PowerPlex® Fusion					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18	Neg.				

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

YB2J74	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
1		8,12	13,14	15,16	18,18	12,12 11,13
		12,17	13,13	29,31.2	11,17	X,X 7,11
		24,25			18,29.2	6,7 11,11
		17,18				
YLFKFH	PowerPlex® ESI-16					
		16.3,17.3	17,23	10,14	14,15	
1			13,14	15,16	18,18	11,13
		12,17	13,13	29,31.2	11,17	X,X
		24,25				6,7
		17,18				
ZA4QL6	Identifiler® Plus (STRmix)					
			17,23		14,15	7,12
1		8,12	13,14			12,12 11,13
		12,17	13,13	29,31.2		X,X 7,11
		24,25				6,7 11,11
		17,18				
ZCTEAK	Identifiler® Plus					
			17,23		14,15	7,12
1		8,12	13,14			12 11,13
		12,17	13	29,31.2		X 7,11
		24,25				6,7 11
		17,18				
ZHXATK	PowerPlex® Fusion 5C, NGM SElect					
		16.3,17.3	17,23	10,14	14,15	7,12
1		8,12	13,14	15,16	18,18	12,12 11,13
		12,17	13,13	29,31.2	11,17	X,X 7,11
		24,25	9,14	11,15	18,29.2	6,7 11,11
		17,18	-			
ZMCCA4	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
1		8,12	13,14	15,16	18,18	12,12 11,13
		12,17	13,13	29,31.2	11,17	X,X 7,11
		24,25			18,29.2	6,7 11,11
		17,18				
ZPDNKA	PowerPlex® 16 HS					
				14,15	7,12	
1		8,12	13,14			12,12 11,13
		12,17		29,31.2		X,X 7,11
		24,25	9,14	11,15		6,7 11,11
		17,18				

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 1 - STR Results

ZR2ZJF	PowerPlex® Fusion 5C					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18	---				
ZV32JC	Identifiler® Plus					
		17,23		14,15	7,12	
1	8,12	13,14			12	11,13
	12,17	13	29,31.2		X,X	7,11
	24,25				6,7	11
	17,18					
ZX7W4F	Investigator® 24plex					
	16,3,17,3	17,23	10,14	14,15	7,12	
1	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					

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

22ME94	Identifiler® Plus					
		17,23		17,17	11,11	
2		11,12	13,14		12,12	12,12
		15,15	13,15	29,30	X,Y	11,12
		20,24			7,8	8,12
		15,17				
2932UT	GlobalFiler™					
		15,17.1	17,23	10,14	17,17	11,11
2		11,12	13,14	14,16	17,21	12,12
		15,15	13,15	29,30	14,17	X,Y
		20,24		16,23.2	7,8	8,12
		15,17	11		2	
29HLEP	PowerPlex® Fusion					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24	8,9	11,12	7,8	8,12
		15,17	11			
2EV7QH	GlobalFiler™ Express					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24		16,23.2	7,8	8,12
		15,17	11		2	
2VHK4A	PowerPlex® Fusion					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24	8,9	11,12	16,23.2	7,8
		15,17	11	17	18	
2XLHDG	GlobalFiler™					
		15,17.1	17,23	10,14	17,17	11,11
2		11,12	13,14	14,16	17,21	12,12
		15,15	13,15	29,30	14,17	X,Y
		20,24		16,23.2	7,8	8,12
		15,17	11		2	
33T7QJ	GlobalFiler™					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24	Not Tested	Not Tested	16,23.2	7,8
		15,17	11	See YSTR	See YSTR	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

38NWWU	GlobalFiler™					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24			16,23.2	7,8
		15,17	11			2
39X8NR	GlobalFiler™					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24			16,23.2	7,8
		15,17	11			2
3BN73P	PowerPlex® Fusion					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24	8,9	11,12		7,8
		15,17	11			
3HNMH3	PowerPlex® Fusion					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24	8,9	11,12		7,8
		15,17	11			
3TQW8Z	GlobalFiler™					
		15,17.1	17,23	10,14	17,17	11,11
2		11,12	13,14	14,16	17,21	12,12
		15,15	13,15	29,30	14,17	X,Y
		20,24			16,23.2	7,8
		15,17	11			2
3UZ4AT	GlobalFiler™					
		15,17.1	17,23	10,14	17,17	11,11
2		11,12	13,14	14,16	17,21	12,12
		15,15	13,15	29,30	14,17	X,Y
		20,24			16,23.2	7,8
		15,17	11			2
3VBUCH	ESI					
		15,17.1	17,23	10,14	17,17	
2			13,14	14,16	17,21	12,12
		15,15	13,15	29,30	14,17	X,Y
		20,24			16,23.2	7,8
		15,17				

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

43BPW2	GlobalFiler™					
		15,17.1	17,23	10,14	17,17	11,11
2		11,12	13,14	14,16	17,21	12,12
		15,15	13,15	29,30	14,17	X,Y
		20,24			16,23.2	7,8
		15,17	11			8,12
						2
4K7AMU	PowerPlex® Fusion					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24	8,9	11,12		7,8
		15,17	11			8,12
4L3MAM	PowerPlex® Fusion					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24	8,9	11,12		7,8
		15,17	11			8,12
4QEPWJ	GlobalFiler™					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24			16,23.2	7,8
		15,17	11			8,12
						2
62A26P	GlobalFiler™					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24			16,23.2	7,8
		15,17	11			8,12
						2
6FRJQL	Identifiler®					
			17,23		17,17	11,11
2		11,12	13,14			12,12
		15,15	13,15	29,30		X,Y
		20,24				7,8
		15,17				8,12
6KPNE6	GlobalFiler™					
		15,17.1	17,23	10,14	17,17	11,11
2		11,12	13,14	14,16	17,21	12,12
		15,15	13,15	29,30	14,17	X,Y
		20,24			16,23.2	7,8
		15,17	11			8,12
						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

6LGYGD	Identifiler® Plus					
		17,23		17	11	
2		11,12	13,14		12	12
		15	13,15	29,30	X,Y	11,12
		20,24			7,8	8,12
		15,17				
6WZ6ZF	PowerPlex® Fusion 6C					
		15,17.1	17,23	10,14	17,17	11,11
2		11,12	13,14	14,16	17,21	12,12
		15,15	13,15	29,30	14,17	X,Y
		20,24	8,9	11,12	16,23.2	7,8
		15,17	11	17	18	8,12
6ZWUGM	PowerPlex® Fusion					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24	8,9	11,12		7,8
		15,17	11			8,12
7262JF	GlobalFiler™					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24			16,23.2	7,8
		15,17	11			8,12
						2
73JPK8	GlobalFiler™					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24			16,23.2	7,8
		15,17	11			8,12
						2
7DZCU9	PowerPlex® Fusion 5C					
		15,17.1	17,23	10,14	17,17	11,11
2		11,12	13,14	14,16	17,21	12,12
		15,15	13,15	29,30	14,17	X,Y
		20,24	8,9	11,12		7,8
		15,17	11			8,12
7JRGPX	Identifiler® Plus					
		17,23		17	11	
2		11,12	13,14		12	12
		15	13,15	29,30	X,Y	11,12
		20,24			7,8	8,12
		15,17				

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

7KHM7N	GlobalFiler™					
		15,17.1	17,23	10,14	17,17	11,11
2		11,12	13,14	14,16	17,21	12,12
		15,15	13,15	29,30	14,17	X,Y
		20,24			16,23.2	7,8
		15,17	11			2
7LXEAL	Identifiler® Plus					
			17,23		17,17	11,11
2		11,12	13,14			12,12
		15,15	13,15	29,30		X,Y
		20,24				7,8
		15,17				8,12
7QAVQH	GlobalFiler™					
		15,17.1	17,23	10,14	17,17	11,11
2		11,12	13,14	14,16	17,21	12,12
		15,15	13,15	29,30	14,17	X,Y
		20,24			16,23.2	7,8
		15,17	11			2
7X6V3P	NGM SElect					
		15,17.1	17,23	10,14	17,17	
2			13,14	14,16	17,21	12,12
		15,15	13,15	29,30	14,17	X,Y
		20,24			16,23.2	7,8
		15,17				
84TYBJ	PowerPlex® Fusion					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24	8,9	11,12		7,8
		15,17	11			8,12
88PGPY	PowerPlex® Fusion					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24	8,9	11,12		7,8
		15,17	11			8,12
9P6AR8	Investigator® 24plex					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24			16,23.2	7,8
		15,17	11			8,12



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

9WNFNE	GlobalFiler™					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
A2G2U8	GlobalFiler™					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
AJVDMX	GlobalFiler™ Express					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
AVCZWY	GlobalFiler™ Express					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
B2WFZW	GlobalFiler™ Express					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
B73BJW	GlobalFiler™ Express					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
BA7CVA	Identifiler® Plus					
		17,23		17	11	
2	11,12	13,14			12	12
	15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					

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

BDTEXU	Identifiler® Plus					
		17,23		17,17	11,11	
2	11,12	13,14			12,12	12,12
	15,15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					
BMQL7Y	Identifiler® Plus					
		17,23		17,17	11,11	
2	11,12	13,14			12,12	12,12
	15,15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					
BN472U	PowerPlex® 21					
	15,17.1	17,23		17,17	11,11	13,18
2	11,12	13,14		17,21	12,12	12,12
	15,15	13,15	29,30		X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17					
BN7NBL	GlobalFiler™					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
BPEX64	PowerPlex® Fusion 5C					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
BTY4NY	GlobalFiler™					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
BV83Y9	GlobalFiler™ Express					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	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

C7HU29	PowerPlex® Fusion 5C					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
C8VLR4	GlobalFiler™					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
CD2M4E	Identifiler®					
		17,23		17,17	11,11	
2	11,12	13,14			12,12	12,12
	15,15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					
CN2T6K	PowerPlex® Fusion					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
CQMZHA	NGM					
	15 OL /208.54bp/	17,23	10,14	17,17		
2		13,14	14,16	17,21		12,12
	15,15	13,15	29,30	14,17	X,Y	
	20,24				7,8	
	15,17					
CQPB9R	PowerPlex® Fusion 6C					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12	16,23.2	7,8	8,12
	15,17	11	17	18		
CY6BVB	Identifiler® 16, Plus (1708118)					
		17,23		17,17	11,11	
2	11,12	13,14			12,12	12,12
	15,15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					

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

D68ATY	PowerPlex® Fusion 6C					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12	16,23.2	7,8	8,12
	15,17	11	17	18		
DCJQZY	Identifiler® Plus					
		17,23		17	11	
2	11,12	13,14			12	12
	15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					
DHAZ9B	PowerPlex® Fusion					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
ECKV2T	GlobalFiler™					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
EMFWRB	PowerPlex® Fusion					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
ERCB78	GlobalFiler™					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
EU4E89	GlobalFiler™					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	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

EYA94P	Identifiler® Plus					
		17,23		17	11	
2	11,12	13,14			12	12
	15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					
EZPMHQ	PowerPlex® 21 (STRmix)					
	15,17.1	17,23		17,17	11,11	13,18
2	11,12	13,14		17,21	12,12	12,12
	15,15	13,15	29,30		X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17					
F6VKGW	Identifiler® Plus					
		17,23		17	11	
2	11,12	13,14			12	12
	15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					
F82AJ7	PowerPlex® Fusion 6C					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12	16,23.2	7,8	8,12
	15,17	11	17	18		
F8KWF3	GlobalFiler™					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
FD9GJH	PowerPlex® Fusion					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
FDPRY3	GlobalFiler™					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	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

FUD3L6	GlobalFiler™					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
FZ4DXN	Identifiler® Plus					
		17,23		17	11	
2	11,12	13,14			12	12
	15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					
GB2GZW	PowerPlex® Fusion					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
GBF62N	PowerPlex® Fusion					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
GFF6ME	GlobalFiler™					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
GVL6YA	Identifiler® Plus, PowerPlex® Fusion					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
GWXC9B	PowerPlex® Fusion					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	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

GXBW8D	PowerPlex® Fusion					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
H4W NXZ	Identifiler® Plus					
		17,23		17	11	
2	11,12	13,14			12	12
	15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					
H8A4CB	GlobalFiler™					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
HMQW4N	PowerPlex® Fusion					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
HZAJAF	PowerPlex® Fusion					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
J47ME8	PowerPlex® Fusion					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
J49DKP	GlobalFiler™					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	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

JQP3A2	Identifiler® Plus					
		17,23		17	11	
2		11,12	13,14		12	12
		15	13,15	29,30	X,Y	11,12
		20,24			7,8	8,12
		15,17				
K2FEXX	Identifiler® Plus					
		17,23		17	11	
2		11,12	13,14		12	12
		15	13,15	29,30	X,Y	11,12
		20,24			7,8	8,12
		15,17				
K4ACH6	PowerPlex® Fusion					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24	8,9	11,12		7,8
		15,17	11			8,12
KH9GMV	PowerPlex® Fusion 5C					
		15,17.1	17,23	10,14	17,17	11,11
2		11,12	13,14	14,16	17,21	12,12
		15,15	13,15	29,30	14,17	X,Y
		20,24	8,9	11,12		7,8
		15,17	11			8,12
KRWCLB	GlobalFiler™					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24			16,23.2	7,8
		15,17	11			8,12
						2
KTRQBP	GlobalFiler™					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24			16,23.2	7,8
		15,17	11			8,12
						2
KVR264	PowerPlex® Fusion 5C					
		15,17.1	17,23	10,14	17	11
2		11,12	13,14	14,16	17,21	12
		15	13,15	29,30	14,17	X,Y
		20,24	8,9	11,12		7,8
		15,17	11			8,12



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

KYC2BB	GlobalFiler™						
	15,17.1	17,23	10,14	17	11		
	2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12	
	20,24			16,23.2	7,8	8,12	
	15,17	11			2		
L2JJ8L	GlobalFiler™						
	15,17.1	17,23	10,14	17	11		
	2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12	
	20,24			16,23.2	7,8	8,12	
	15,17	11			2		
L3UZ8Z	Identifiler®						
		17,23		17	11		
	2	11,12	13,14		12	12	
	15	13,15	29,30		X,Y	11,12	
	20,24				7,8	8,12	
	15,17						
L43HEP	Identifiler® Plus, PowerPlex® 21						
	15,17.1	17,23		17,17	11,11	13,18	
	2	11,12	13,14	17,21	12,12	12,12	
	15,15	13,15	29,30		X,Y	11,12	
	20,24	8,9	11,12		7,8	8,12	
	15,17						
L44HC4	PowerPlex® Fusion						
	15,17.1	17,23	10,14	17	11		
	2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12	
	20,24	8,9	11,12		7,8	8,12	
	15,17	11					
LE4AJA	GlobalFiler™						
	15,17.1	17,23	10,14	17	11		
	2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12	
	20,24			16,23.2	7,8	8,12	
	15,17	11			2		
LFYN9M	GlobalFiler™						
	15,17.1	17,23	10,14	17	11		
	2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12	
	20,24			16,23.2	7,8	8,12	
	15,17	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

LHMZ8T	GlobalFiler™					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
LQVWQP	Identifiler®					
		17,23		17	11	
2	11,12	13,14			12	12
	15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					
LYBDLK	PowerPlex® Fusion 5C					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
M6UZTV	GlobalFiler™					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
M6Y97P	GlobalFiler™					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
MCV479	PowerPlex® Fusion					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
MD6RAZ	GlobalFiler™					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	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

MFEAHP	PowerPlex® Fusion					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
MFR29K	GlobalFiler™ Express					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
N3ZUNP	PowerPlex® Fusion					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
N9LPM8	GlobalFiler™					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
NMRTZE	PowerPlex® Fusion 6C					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12	16,23.2	7,8	8,12
	15,17	11	17	18		
NY3237	PowerPlex® Fusion					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
NYK2XV	GlobalFiler™ Express					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	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

P7ZF2D	GlobalFiler™					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
PTXPKE	Identifiler® Plus					
		17,23		17,17	11,11	
2	11,12	13,14			12,12	12,12
	15,15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					
PUL8BE	PowerPlex® Fusion					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
Q3AH3L	GlobalFiler™					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
Q7T6MZ	Identifiler® Plus					
		17,23		17,17	11,11	
2	11,12	13,14			12,12	12,12
	15,15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					
Q8METG	GlobalFiler™					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
QFG96T	GlobalFiler™ Express					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	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

QGARW2	PowerPlex® Fusion 6C (RMP with Familias 3)					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12	16,23.2	7,8	8,12
	15,17	11	17	18		
QJ37HB	GlobalFiler™					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
QLM6NT	GlobalFiler™ Express					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
QPP9RW	GlobalFiler™					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
RABYB7	PowerPlex® Fusion					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
RAR92L	GlobalFiler™					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
RKP9FB	Identifiler® Plus					
		17,23		17	11	
2	11,12	13,14			12	12
	15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					

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

TUERLQ	Identifiler® Plus					
		17,23		17	11	
2	11,12	13,14			12	12
	15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					
TUXWDH	GlobalFiler™					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
U6PJNQ	Identifiler® Plus					
		17,23		17	11	
2	11,12	13,14			12	12
	15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					
UBFTYN	Identifiler® Plus					
		17,23		17	11	
2	11,12	13,14			12	12
	15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					
UQPCGT	GlobalFiler™					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
VAWYHR	GlobalFiler™					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
VKDJA4	PowerPlex® Fusion					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	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

VQ4W4C	GlobalFiler™ Express					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
VQJFMA	PowerPlex® Fusion 5C					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
VUNFYM	Identifiler® Plus					
		17,23		17	11	
2	11,12	13,14			12	12
	15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					
WB44LM	Identifiler® Plus					
		17,23		17	11	
2	11,12	13,14			12	12
	15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					
X8GGBR	PowerPlex® Fusion					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	11				
X8GGDC	Identifiler®					
		17,23		17,17	11,11	
2	11,12	13,14			12,12	12,12
	15,15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					
X8NGK8	PowerPlex® 21					
	15,17.1	17,23		17,17	11,11	13,18
2	11,12	13,14		17,21	12,12	12,12
	15,15	13,15	29,30		X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17					

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

XL3UR8	PowerPlex® Fusion						
	15,17.1	17,23	10,14	17	11		
	2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12	
	20,24	8,9	11,12		7,8	8,12	
	15,17	11					
XMH7F6	GlobalFiler™						
	15,17.1	17,23	10,14	17,17	11,11	N/A	
	2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12	
	20,24	N/A	N/A	16,23.2	7,8	8,12	
	15,17	11	N/A	N/A	2		
XRCPWG	PowerPlex® Fusion 5C						
	15,17.1	17,23	10,14	17,17	11,11		
	2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12	
	20,24	8,9	11,12		7,8	8,12	
	15,17	11					
XUUAEQ	PowerPlex® Fusion						
	15,17.1	17,23	10,14	17	11		
	2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12	
	20,24	8,9	11,12		7,8	8,12	
	15,17	11					
XUW83N	Identifiler® Plus						
		17,23		17	11		
	2	11,12	13,14		12	12	
	15	13,15	29,30		X,Y	11,12	
	20,24				7,8	8,12	
	15,17						
XYN74G	PowerPlex® Fusion 5C						
	15,17.1	17,23	10,14	17,17	11,11		
	2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12	
	20,24	8,9	11,12		7,8	8,12	
	15,17	11					
YB2J74	GlobalFiler™						
	15,17.1	17,23	10,14	17,17	11,11		
	2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12	
	20,24			16,23.2	7,8	8,12	
	15,17	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

YLFKFH	PowerPlex® ESI-16					
	15,17.1	17,23	10,14	17,17		
2		13,14	14,16	17,21		12,12
	15,15	13,15	29,30	14,17	X,Y	
	20,24				7,8	
	15,17					
ZA4QL6	Identifiler® Plus (STRmix)					
		17,23		17,17	11,11	
2	11,12	13,14			12,12	12,12
	15,15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					
ZCTEAK	Identifiler® Plus					
		17,23		17	11	
2	11,12	13,14			12	12
	15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					
ZHXATK	PowerPlex® Fusion 5C, NGM SElect					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12	16,23.2	7,8	8,12
	15,17	11				
ZMCCA4	GlobalFiler™					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	11			2	
ZPDNKA	PowerPlex® 16 HS					
				17,17	11,11	
2	11,12	13,14			12,12	12,12
	15,15		29,30		X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17					
ZR2ZJF	PowerPlex® Fusion 5C					
	15,17.1	17,23	10,14	17,17	11,11	
2	11,12	13,14	14,16	17,21	12,12	12,12
	15,15	13,15	29,30	14,17	X,Y	11,12
	20,24	8,9	11,12		7,8	8,12
	15,17	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

ZV32JC	Identifiler® Plus					
		17,23		17	11	
2	11,12	13,14			12	12
	15	13,15	29,30		X,Y	11,12
	20,24				7,8	8,12
	15,17					
ZX7W4F	Investigator® 24plex					
	15,17.1	17,23	10,14	17	11	
2	11,12	13,14	14,16	17,21	12	12
	15	13,15	29,30	14,17	X,Y	11,12
	20,24			16,23.2	7,8	8,12
	15,17	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 3 - STR Results

22ME94	Identifiler® Plus					
		17,23		14,15	7,12	
3		8,12	13,14		12,12	11,13
		12,17	13,13	29,31.2	X,X	7,11
		24,25			6,7	11,11
		17,18				
2932UT	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18,18	12,12
		12,17	13,13	29,31.2	11,17	X,X
		24,25		18,29.2	6,7	11,11
		17,18	NR		NR	
29HLEP	PowerPlex® Fusion					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	12
		12,17	13	29,31.2	11,17	X
		24,25	9,14	11,15	6,7	11
		17,18				
2EV7QH	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	12
		12,17	13	29,31.2	11,17	X
		24,25		18,29.2	6,7	11
		17,18	NR		NR	
2VHK4A	PowerPlex® Fusion					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	12
		12,17	13	29,31.2	11,17	X
		24,25	9,14	11,15	18,29.2	6,7
		17,18				11
2XLHDG	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18,18	12,12
		12,17	13,13	29,31.2	11,17	X,X
		24,25		18,29.2	6,7	11,11
		17,18				
33T7QJ	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	12
		12,17	13	29,31.2	11,17	X,X
		24,25	Not Tested	Not Tested	18,29.2	6,7
		17,18	No Result	Not Tested	Not Tested	No Result
						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 3 - STR Results

38NWWU	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	11,13
		12,17	13	29,31.2	11,17	X,X
		24,25			18,29.2	6,7
		17,18	-			-
39X8NR	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	11,13
		12,17	13	29,31.2	11,17	X
		24,25			18,29.2	6,7
		17,18				11
3BN73P	PowerPlex® Fusion					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	11,13
		12,17	13	29,31.2	11,17	X
		24,25	9,14	11,15		6,7
		17,18				11
3HNMH3	PowerPlex® Fusion					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	11,13
		12,17	13	29,31.2	11,17	X
		24,25	9,14	11,15		6,7
		17,18	NR			11
3TQW8Z	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18,18	12,12
		12,17	13,13	29,31.2	11,17	X,X
		24,25			18,29.2	6,7
		17,18				11,11
3UZ4AT	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18,18	12,12
		12,17	13,13	29,31.2	11,17	X,X
		24,25			18,29.2	6,7
		17,18				11,11
3VBUCH	NGMSE					
		16.3,17.3	17,23	10,14	14,15	
3		8,12	13,14	15,16	18,18	11,13
		12,17	13,13	29,31.2	11,17	X,X
		24,25			18,29.2	6,7
		17,18				

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

43BPW2	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18,18	12,12
		12,17	13,13	29,31.2	11,17	X,X
		24,25			18,29.2	6,7
		17,18				11,11
4K7AMU	PowerPlex® Fusion					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	12
		12,17	13	29,31.2	11,17	X
		24,25	9,14	11,15		6,7
		17,18				11
4L3MAM	PowerPlex® Fusion					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	12
		12,17	13	29,31.2	11,17	X
		24,25	9,14	11,15		6,7
		17,18				11
4QEPWJ	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	12
		12,17	13	29,31.2	11,17	X
		24,25			18,29.2	6,7
		17,18				11
62A26P	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	12
		12,17	13	29,31.2	11,17	X
		24,25			18,29.2	6,7
		17,18				11
6FRJQL	Identifiler®					
			17,23		14,15	7,12
3		8,12	13,14			12,12
		12,17	13,13	29,31.2		X,X
		24,25				6,7
		17,18				11,11
6KPNE6	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18,18	12,12
		12,17	13,13	29,31.2	11,17	X,X
		24,25			18,29.2	6,7
		17,18				11,11

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 3 - STR Results

6LGYGD	Identifiler® Plus					
		17,23		14,15	7,12	
3		8,12	13,14		12	11,13
		12,17	13	29,31.2	X	7,11
		24,25			6,7	11
		17,18				
6WZ6ZF	PowerPlex® Fusion 6C (STRmix)					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18,18	12,12
		12,17	13,13	29,31.2	11,17	X,X
		24,25	9,14	11,15	18,29.2	6,7
		17,18				11,11
6ZWUGM	PowerPlex® Fusion					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	12
		12,17	13	29,31.2	11,17	X
		24,25	9,14	11,15		6,7
		17,18				11
7262JF	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	12
		12,17	13	29,31.2	11,17	X
		24,25			18,29.2	6,7
		17,18				11
73JPK8	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	12
		12,17	13	29,31.2	11,17	X,X
		24,25			18,29.2	6,7
		17,18				11
7DZCU9	PowerPlex® Fusion 5C					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18,18	12,12
		12,17	13,13	29,31.2	11,17	X,X
		24,25	9,14	11,15		6,7
		17,18				11,11
7JRGPX	Identifiler® Plus					
		17,23		14,15	7,12	
3		8,12	13,14		12	11,13
		12,17	13	29,31.2	X,X	7,11
		24,25			6,7	11
		17,18				

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

7KHM7N	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18,18	12,12 11,13
		12,17	13,13	29,31.2	11,17	X,X 7,11
		24,25			18,29.2	6,7 11,11
		17,18				
7LXEAL	Identifiler® Plus					
			17,23		14,15	7,12
3		8,12	13,14			12,12 11,13
		12,17	13,13	29,31.2		X,X 7,11
		24,25				6,7 11,11
		17,18				
7QAVQH	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18,18	12,12 11,13
		12,17	13,13	29,31.2	11,17	X,X 7,11
		24,25			18,29.2	6,7 11,11
		17,18				
7X6V3P	NGM SElect					
		16.3,17.3	17,23	10,14	14,15	
3			13,14	15,16	18,18	11,13
		12,17	13,13	29,31.2	11,17	X,X
		24,25			18,29.2	6,7
		17,18				
84TYBJ	PowerPlex® Fusion					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	12 11,13
		12,17	13	29,31.2	11,17	X 7,11
		24,25	9,14	11,15		6,7 11
		17,18				
88PGPY	PowerPlex® Fusion					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	12 11,13
		12,17	13	29,31.2	11,17	X 7,11
		24,25	9,14	11,15		6,7 11
		17,18	NR			
9P6AR8	Investigator® 24plex					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	12 11,13
		12,17	13	29,31.2	11,17	X 7,11
		24,25			18,29.2	6,7 11
		17,18				

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

9WNFNE	GlobalFiler™					
	16,3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11
	17,18					
A2G2U8	GlobalFiler™					
	16,3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11,11
	17,18	NR			NR	
AJVDMX	GlobalFiler™					
	16,3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18	NR			NR	
AVCZWY	GlobalFiler™					
	16,3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18	NR			NR	
B2WFZW	GlobalFiler™					
	16,3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18	no results			no results	
B73BJW	GlobalFiler™					
	16,3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18	No results			No results	
BA7CVA	Identifiler® Plus					
		17,23		14,15	7,12	
3	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					



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

BDTEXU	Identifiler® Plus					
		17,23		14,15	7,12	
3	8,12	13,14			12,12	11,13
	12,17	13,13	29,31.2		X,X	7,11
	24,25				6,7	11,11
	17,18					
BMQL7Y	Identifiler® Plus					
		17,23		14,15	7,12	
3	8,12	13,14			12,12	11,13
	12,17	13,13	29,31.2		X,X	7,11
	24,25				6,7	11,11
	17,18					
BN472U	PowerPlex® 21					
	16.3,17.3	17,23		14,15	7,12	12,21.3
3	8,12	13,14		18,18	12,12	11,13
	12,17	13,13	29,31.2		X,X	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18					
BN7NBL	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11
	17,18	-			-	
BPEX64	PowerPlex® Fusion 5C					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18					
BTY4NY	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11,11
	17,18					
BV83Y9	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18	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

C7HU29	PowerPlex® Fusion 5C					
	16,3,17,3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
C8VLR4	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					
CD2M4E		17,23		14,15	7,12	
3	8,12	13,14			12,12	11,13
	12,17	13,13	29,31.2		X,X	7,11
	24,25				6,7	11,11
	17,18					
CN2T6K	PowerPlex® Fusion					
	16,3,17,3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
CQMZHA	NGM					
	16,3,17,3	17,23	10,14	14,15		
3		13,14	15,16	18,18		11,13
	12,17	13,13	29,31.2	11,17	X,X	
	24,25				6,7	
	17,18					
CQPBR9	PowerPlex® Fusion 6C					
	16,3,17,3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15	18,29.2	6,7	11,11
	17,18	ND	ND	ND		
CY6BVB	Identifiler® 16, Plus (1708118)					
		17,23		14,15	7,12	
3	8,12	13,14			12,12	11,13
	12,17	13,13	29,31.2		X,X	7,11
	24,25				6,7	11,11
	17,18					

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

D68ATY	PowerPlex® Fusion 6C (LRmix Studio v. 2.1.3)					
	16,3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15	18,29.2	6,7	11,11
	17,18					
DCJQZY	Identifiler® Plus					
		17,23		14,15	7,12	
3	8,12	13,14			12	11,13
	12,17	13	29,31.2		X,X	7,11
	24,25				6,7	11
	17,18					
DHAZ9B	PowerPlex® Fusion					
	16,3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
ECKV2T	GlobalFiler™ (STRmix)					
	16,3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11,11
	17,18					
EMFWRB	PowerPlex® Fusion					
	16,3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
ERCB78	GlobalFiler™					
	16,3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					
EU4E89	GlobalFiler™					
	16,3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					

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

EYA94P	Identifiler® Plus					
		17,23		14,15	7,12	
3	8,12	13,14			12	11,13
	12,17	13	29,31.2		X,X	7,11
	24,25				6,7	11
	17,18					
EZPMHQ	PowerPlex® 21 (STRmix)					
	16.3,17.3	17,23		14,15	7,12	12,21.3
3	8,12	13,14		18,18	12,12	11,13
	12,17	13,13	29,31.2		X,X	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18					
F6VKGW	Identifiler® Plus					
		17,23		14,15	7,12	
3	8,12	13,14			12	11,13
	12,17	13	29,31.2		X,X	7,11
	24,25				6,7	11
	17,18					
F82AJ7	PowerPlex® Fusion 6C (STRMix)					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15	18,29.2	6,7	11,11
	17,18					
F8KWF3	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11,11
	17,18	NR			NR	
FD9GJH	PowerPlex® Fusion					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
FDPRY3	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11,11
	17,18	---			---	

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

FUD3L6	GlobalFiler™ (Lab Retriever)					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					
FZ4DXN	Identifiler® Plus					
		17,23		14,15	7,12	
3	8,12	13,14			12	11,13
	12,17	13	29,31.2		X,X	7,11
	24,25				6,7	11
	17,18					
GBF62N	PowerPlex® Fusion					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18	NR				
GFF6ME	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15,[17]	7,12	
3	8,12	13,14	15,16	18,18,[21]	12,12	11,13
	12,[15],17	13,13,[15]	29,31.2	11,17	X,X,[Y]	7,11
	24,25			[16],18,29.2	6,7	11,11
	17,18				[2]	
GVL6YA	Identifiler® Plus, PowerPlex® Fusion					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
GWXC9B	PowerPlex® Fusion					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
GXBW8D	PowerPlex® Fusion					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					

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

H4W NXZ	Identifiler® Plus					
		17,23		14,15	7,12	
3	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					
H8A4CB	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11,11
	17,18	NR			NR	
HMqw4N	PowerPlex® Fusion					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18	NR				
HZAJAF	PowerPlex® Fusion					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
J47ME8	PowerPlex® Fusion					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
J49DKP	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					
JQP3A2	Identifiler® Plus					
		17,23		14,15	7,12	
3	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					

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

K2FEXX	Identifiler® Plus					
		17,23		14,15	7,12	
3	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					
K4ACH6	PowerPlex® Fusion					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
KH9GMV	PowerPlex® Fusion 5C					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18					
KRWCLB	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11
	17,18					
KTRQBP	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					
KVR264	PowerPlex® Fusion 5C					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
KYC2BB	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					

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

L2JJ8L	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
	3	8,12	13,14	15,16	18	11,13
		12,17	13	29,31.2	11,17	X
		24,25			18,29.2	6,7
	17,18				11	
L3UZ8Z	Identifiler®					
			17,23		14,15	7,12
	3	8,12	13,14			11,13
		12,17	13	29,31.2		X
		24,25				6,7
	17,18				11	
L43HEP	Identifiler® Plus, PowerPlex® 21					
		16.3,17.3	17,23		14,15	7,12
	3	8,12	13,14		18,18	11,13
		12,17	13,13	29,31.2		X,X
		24,25	9,14	11,15		6,7
	17,18				11,11	
L44HC4	PowerPlex® Fusion					
		16.3,17.3	17,23	10,14	14,15	7,12
	3	8,12	13,14	15,16	18	11,13
		12,17	13	29,31.2	11,17	X
		24,25	9,14	11,15		6,7
	17,18				11	
LE4AJA	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
	3	8,12	13,14	15,16	18	11,13
		12,17	13	29,31.2	11,17	X,X
		24,25			18,29.2	6,7
	17,18	-			-	
LFYN9M	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
	3	8,12	13,14	15,16	18	11,13
		12,17	13	29,31.2	11,17	X
		24,25			18,29.2	6,7
	17,18				11	
LHMZ8T	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
	3	8,12	13,14	15,16	18	11,13
		12,17	13	29,31.2	11,17	X,X
		24,25			18,29.2	6,7
	17,18				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 3 - STR Results

LQVWQP	Identifiler®					
		17,23		14,15	7,12	
3		8,12	13,14		12	11,13
		12,17	13	29,31.2	X	7,11
		24,25			6,7	11
		17,18				
LYBDLK	PowerPlex® Fusion 5C					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	12
		12,17	13	29,31.2	11,17	X
		24,25	9,14	11,15	6,7	11
		17,18	NR			
M6UZTV	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18,18	12,12
		12,17	13,13	29,31.2	11,17	X,X
		24,25			18,29.2	6,7
		17,18	NR			11,11
					NR	
M6Y97P	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18,18	12,12
		12,17	13,13	29,31.2	11,17	X,X
		24,25			18,29.2	6,7
		17,18				11,11
MCV479	PowerPlex® Fusion					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	12
		12,17	13	29,31.2	11,17	X
		24,25	9,14	11,15	6,7	11
		17,18				
MD6RAZ	GlobalFiler™					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	12
		12,17	13	29,31.2	11,17	X
		24,25			18,29.2	6,7
		17,18				11
MFEAHP	PowerPlex® Fusion					
		16.3,17.3	17,23	10,14	14,15	7,12
3		8,12	13,14	15,16	18	12
		12,17	13	29,31.2	11,17	X
		24,25	9,14	11,15	6,7	11
		17,18	-			

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

MFR29K	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18	NR			NR	
N3ZUNP	PowerPlex® Fusion					
	16,3,17,3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18					
N9LPM8	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11
	17,18					
NMRTZE	PowerPlex® Fusion 6C					
	16,3,17,3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15	18,29.2	6,7	11,11
	17,18	ND	ND	ND		
NY3237	PowerPlex® Fusion					
	16,3,17,3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
NYK2XV	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18	No Result			No Result	
P7ZF2D	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11,11
	17,18					

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

PTXPKE	Identifiler® Plus					
		17,23		14,15	7,12	
3	8,12	13,14			12,12	11,13
	12,17	13,13	29,31.2		X,X	7,11
	24,25				6,7	11,11
	17,18					
PUL8BE	PowerPlex® Fusion					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
Q3AH3L	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					
Q7T6MZ	Identifiler® Plus					
		17,23		14,15	7,12	
3	8,12	13,14			12,12	11,13
	12,17	13,13	29,31.2		X,X	7,11
	24,25				6,7	11,11
	17,18					
Q8METG	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					
QFG96T	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18	no results			no results	
QGARW2	PowerPlex® Fusion 6C (LRMix Studio)					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15	18,29.2	6,7	11,11
	17,18					

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

QJ37HB	GlobalFiler™						
	16,3,17,3	17,23	10,14	14,15	7,12		
	3	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X		7,11
	24,25			18,29.2	6,7		11,11
	17,18						
QLM6NT	GlobalFiler™						
	16,3,17,3	17,23	10,14	14,15	7,12		
	3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X		7,11
	24,25			18,29.2	6,7		11
	17,18	No Result			No Result		
QPP9RW	GlobalFiler™						
	16,3,17,3	17,23	10,14	14,15	7,12		
	3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X		7,11
	24,25			18,29.2	6,7		11
	17,18						
RABYB7	PowerPlex® Fusion						
	16,3,17,3	17,23	10,14	14,15	7,12		
	3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X		7,11
	24,25	9,14	11,15		6,7		11
	17,18						
RAR92L	GlobalFiler™						
	16,3,17,3	17,23	10,14	14,15	7,12		
	3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X		7,11
	24,25			18,29.2	6,7		11
	17,18						
RKP9FB	Identifiler® Plus						
		17,23		14,15	7,12		
	3	8,12	13,14		12		11,13
	12,17	13	29,31.2		X,X		7,11
	24,25				6,7		11
	17,18						
TUERLQ	Identifiler® Plus						
		17,23		14,15	7,12		
	3	8,12	13,14		12		11,13
	12,17	13	29,31.2		X		7,11
	24,25				6,7		11
	17,18						

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

TUXWDH	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11,11
	17,18					
U6PJNQ	Identifiler® Plus					
		17,23		14,15	7,12	
3	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					
UBFTYN	Identifiler® Plus					
		17,23		14,15	7,12	
3	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					
UQPCGT	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11
	17,18					
VAWYHR	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					
VKDJA4	PowerPlex® Fusion					
	16,3,17,3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18	NR				
VQ4W4C	GlobalFiler™					
	16,3,17,3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18	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

VQJFMA	PowerPlex® Fusion 5C					
	16,3,17,3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18	NR				
VUNFYM	Identifiler® Plus					
		17,23		14,15	7,12	
3	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					
WB44LM	Identifiler® Plus					
		17,23		14,15	7,12	
3	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					
X8GGBR	PowerPlex® Fusion					
	16,3,17,3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18					
X8GGDC	Identifiler®					
		17,23		14,15	7,12	
3	8,12	13,14			12,12	11,13
	12,17	13,13	29,31.2		X,X	7,11
	24,25				6,7	11,11
	17,18					
X8NGK8	PowerPlex® 21					
	16,3,17,3	17,23		9,14,15	7,12	12,21.3
3	8,12	13,14		18,18	12,12	11,13
	12,17	13,13	29,31.2		X,X	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18					
XL3UR8	PowerPlex® Fusion					
	16,3,17,3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18	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

XMH7F6	GlobalFiler™						
		16,3,17,3	17,23	10,14	14,15	7,12	N/A
	3	8,12	13,14	15,16	18,18	12,12	11,13
		12,17	13,13	29,31.2	11,17	X,X	7,11
		24,25	N/A	N/A	18,29.2	6,7	11,11
	17,18	N/A	N/A	N/A	N/A		
XRCPWG	PowerPlex® Fusion 5C						
		16,3,17,3	17,23	10,14	14,15	7,12	
	3	8,12	13,14	15,16	18,18	12,12	11,13
		12,17	13,13	29,31.2	11,17	X,X	7,11
		24,25	9,14	11,15		6,7	11,11
	17,18						
XUUAEQ	PowerPlex® Fusion						
		16,3,17,3	17,23	10,14	14,15	7,12	
	3	8,12	13,14	15,16	18	12	11,13
		12,17	13	29,31.2	11,17	X	7,11
		24,25	9,14	11,15		6,7	11
	17,18						
XUW83N	Identifiler® Plus						
			17,23		14,15	7,12	
	3	8,12	13,14			12	11,13
		12,17	13	29,31.2		X	7,11
		24,25				6,7	11
	17,18						
XYN74G	PowerPlex® Fusion 5C						
		16,3,17,3	17,23	10,14	14,15	7,12	
	3	8,12	13,14	15,16	18,18	12,12	11,13
		12,17	13,13	29,31.2	11,17	X,X	7,11
		24,25	9,14	11,15		6,7	11,11
	17,18	Neg.					
YB2J74	GlobalFiler™						
		16,3,17,3	17,23	10,14	14,15	7,12	
	3	8,12	13,14	15,16	18,18	12,12	11,13
		12,17	13,13	29,31.2	11,17	X,X	7,11
		24,25			18,29.2	6,7	11,11
	17,18						
YLKFBH	PowerPlex® ESI-16						
		16,3,17,3	17,23	10,14	14,15		
	3		13,14	15,16	18,18		11,13
		12,17	13,13	29,31.2	11,17	X,X	
		24,25				6,7	
	17,18						

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

ZA4QL6	Identifiler® Plus (STRmix)					
		17,23		14,15	7,12	
3	8,12	13,14			12,12	11,13
	12,17	13,13	29,31.2		X,X	7,11
	24,25				6,7	11,11
	17,18					
ZCTEAK	Identifiler® Plus					
		17,23		14,15	7,12	
3	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					
ZHXATK	PowerPlex® Fusion 5C, NGM					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18	-				
ZMCCA4	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25			18,29.2	6,7	11,11
	17,18					
ZPDNKA	PowerPlex® 16 HS					
				14,15	7,12	
3	8,12	13,14			12,12	11,13
	12,17		29,31.2		X,X	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18					
ZR2ZJF	PowerPlex® Fusion 5C					
	16.3,17.3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18	---				
ZV32JC	Identifiler® Plus					
		17,23		14,15	7,12	
3	8,12	13,14			12	11,13
	12,17	13	29,31.2		X,X	7,11
	24,25				6,7	11
	17,18					



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

ZX7W4F	Investigator® 24plex					
	16,3,17,3	17,23	10,14	14,15	7,12	
3	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					

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 3e - STR Results

GB2GZW	PowerPlex® Fusion					
	16,3,17,3	17,23	10,14	14,15	7,12	
3e	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
	<b>D1S1656</b>	<b>D2S1338</b>	<b>D2S441</b>	<b>D3S1358</b>	<b>D5S818</b>	<b>D6S1043</b>
<b>Item</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

GB2GZW PowerPlex® Fusion

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

43BPW2	GlobalFiler™					
	14,[16.3],17.3	[17],20,22	10,14	[14],[15],16,18	[7],11,12	
4	[8],11,[12]	13,14	14,[15],[16]	17,[18],21	8,12	8,9,[11],[13]
	[12],15,[17],18	[13],14	[29],30,31.2	[11],15,16,[17]	X,Y	10,11
	20,[24],25			[18],25.2,[29.2],30.2	[6],7,9.3	10,11
	14,[17],18	11			2	
6WZ6ZF	PowerPlex® Fusion 6C					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15	18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11	18	19		
7JRGPX	Identifiler® Plus					
		17,20,22,23		14,15,16,18	7,11,12	
4	8,11,12	13,14			8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2		X,Y	7,10,11
	20,24,25				6,7,9.3	10,11
	14,17,18					
7LXEAL	Identifiler® Plus					
		20,22		16,18	11,12	
4	11,11	13,14			8,12	8,9
	15,18	14,14	30,31.2		X,Y	10,11
	20,25				7,9.3	10,11
	14,18					
7X6V3P	NGM SElect					
	14,[16.3],17.3	[17],20,22,[23]	10,14	[14],[15],16,18		
4	[8],11,[12]	13,14	14,[15],[16]	17,[18],21		8,9,[11],[13]
	[12],15,[17],18	[13],14	[29],30,31.2	[11],15,16,[17]	X,Y	
	20,[24],25			[18],25.2,[29.2],30.2	[6],7,9.3	
	14,[17],18					
CY6BVB	Identifiler® 16, Plus (1708118)					
		17,20,22,23		14,15,16,18	7,11,12	
4	8,11,12	13,14			8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2		X,Y	7,10,11
	20,24,25				6,7,9.3	10,11
	14,17,18					
EYA94P	Identifiler® Plus					
		17,20,22,23		14,15,16,18	7,11,12	
4	8,11,12	13,14			8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2		X,Y	7,10,11
	20,24,25				6,7,9.3	10,11
	14,17,18					

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 4 - STR Results

FZ4DXN	Identifiler® Plus					
		17,20,22,23		14,15,16,18	7,11,12	
4	8,11,12	13,14			8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2		X,Y	7,10,11
	20,24,25				6,7,9.3	10,11
	14,17,18					
GVL6YA	Identifiler® Plus, PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,13,15		6,7,9.3	10,11
	14,17,18	11				
MFEAHP	PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4	8,11	13,14	14,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
QGARW2	PowerPlex® Fusion 6C (LRMix Studio)					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4	11	13,14	14,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15	18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11	18	19		
RKP9FB	Identifiler® Plus					
		17,20,22,23		14,15,16,18	7,11,12	
4	8,11,12	13,14			8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2		X,Y	7,10,11
	20,24,25				6,7,9.3	10,11
	14,17,18					
X8GGDC	Identifiler®					
		20,22		16,18	11,12	
4	11,11	13,14			8,12	8,9
	15,18	14,14	30,31.2		X,Y	10,11
	20,25				7,9.3	10,11
	14,18					
ZV32JC	Identifiler® Plus					
		17,20,22,23		14,15,16,18	7,11,12	
4	8,11,12	13,14			8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2		X,Y	7,10,11
	20,24,25				6,7,9.3	10,11
	14,17,18					

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

22ME94	Identifiler® Plus	17,20,22,23		14,15,16,18	7,11,12	
4e		8,11,12	13,14		8,12	8,9,11,13
		12,15,17,18	13,14	29,30,31.2	X,Y	7,11
		20,24,25			6,7,9.3	11
		14,17,18				
2932UT	GlobalFiler™	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e		8,11,12	13,14	14,15,16	17,18,21	8,12
		12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y
		20,24,25		18,25.2,29.2,30.2	6,7,9.3	10,11
		14,17,18	11		2	
29HLEP	PowerPlex® Fusion	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e		8,11,12	13,14	14,15,16	18,21	8,12
		12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y
		20,24,25	6,9,12,14	10,11,13,15		6,7,9.3
		14,17,18	11			10,11
2EV7QH	GlobalFiler™	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e		8,11,12	13,14	14,15,16	17,18,21	8,12
		12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y
		20,24,25		18,25.2,29.2,30.2	6,7,9.3	10,11
		14,17,18	11		2	
2VHK4A	PowerPlex® Fusion	17,23	10,14	14,15	7,12	
4e		8,12	13,14	15,16	18	12
		12,17	13	29,31.2	11,17	X
		24,25	9,14	11,15	18,29.2	6,7
		17,18				11
2XLHDG	GlobalFiler™	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e		8,11,12	13,14	14,15,16	17,18,21	8,12
		12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y
		20,24,25		18,25.2,29.2,30.2	6,7,9.3	10,11
		14,17,18	11		2	
33T7QJ	GlobalFiler™	17,20,22,23	10,14	14,15,16,18	7,11,12	Not Tested
4e		8,11,12	13,14	14,15,16	17,18,21	8,12
		12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y
		20,24,25	Not Tested	Not Tested	18,25.2,29.2,30.2	6,7,9.3
		14,17,18	11	Not Tested	Not Tested	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

38NWWU	GlobalFiler™					
	[14],16.3,17.3	17,[20],[22],23	10,14	14,15,[16],[18]	7,[11],12	
4e	8,[11],12	13,14	[14],15,16	[17],18,[21]	[8],12	[8],[9],11,13
	12,[15],17,[18]	13,[14]	29,[30],31.2	11,[15],[16],17	X,[Y]	7,[10],11
	[20],24,25			18,[25.2],29.2,[30.2]	6,7,[9.3]	[10],11
	[14],17,18	11			2	
39X8NR	GlobalFiler™					
	14,[16.3],17.3	[17],20,22,[23]	10,14	[14],15,16,18	[7],11,12	
4e	[8],11,[12]	13,14	14,[15],16	17,18,21	8,12	8,9,[11],13
	[12],15,[17],18	[13],14	[29],30,31.2	[11],15,16,[17]	X,[Y]	[7],10,11
	20,[24],25			[18],25.2,[29.2],30.2	[6],7,9.3	[10],11
	14,[17],18	11			2	
3BN73P	PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
3HNMH3	PowerPlex® Fusion					
	16.3,17.3	17,[20],[22],23	10,14	14,15,[16],[18]	7,[11],12	
4e	8,[11],12	13,14	[14],15,16	18,[21]	[8],12	[8],[9],11,13
	12,[15],17,[18]	13,[14]	29,31.2	11,[15],[16],17	X,[Y]	7,[10],11
	[20],24,25	9,14	[10],11,15		6,7,[9.3]	[10],11
	[14],17,18	NR				
3TQW8Z	GlobalFiler™					
	[14],16.3,17.3	17,[20],[22],23	10,14	14,15,[16],[18]	7,[11],12	
4e	8,[11],12	13,14	[14],15,16	18,18,[21]	[8],12,12	[8],[9],11,13
	12,[15],17,[18]	13,13,[14]	29,[30],31.2	11,[15],[16],17	X,X,[Y]	7,[10],11
	[20],24,25			18,[25.2],29.2,[30.2]	6,7,[9.3]	[10],11,11
	[14],17,18	[11]			[2]	
3UZ4AT	GlobalFiler™					
	[14],16.3,17.3	17,20,22,23	10,14	14,15,[16],[18]	7,[11],12	
4e	8,11,12	13,14	14,15,16	18,[21]	[8],12	[8],[9],11,13
	12,[15],17,[18]	13,14	29,[30],31.2	11,[15],[16],17	X,[Y]	7,[10],11
	[20],24,25			18,[25.2],29.2,[30.2]	6,7,9.3	[10],11
	[14],17,18	[11]			[2]	
3VBUCH	ESI					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18		
4e	8,11,12	13,14	14,15,16	17,18,21		8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	
	14,17,18					

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

4K7AMU	PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
4L3MAM	PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
4QEPWJ	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11			2	
62A26P	GlobalFiler™					
	16.3,17.3	17,23	10,14	14,15	7,12	
4e	8,12	13,14	15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25			18,29.2	6,7	11
	17,18					
6FRJQL	Identifiler®					
		17,20,22,23		14,15,16,18	7,11,12	
4e	8,11,12	13,14			8,12	8,9,11,13
	12,15,17	13,14	29,30,31.2		X,Y	7,10,11
	20,24,25				6,7,9.3	10,11
	14,17,18					
6KPNE6	GlobalFiler™					
	[14],16.3,17.3	17,[20],[22],23	10,14	14,15,[16],[18]	7,[11],12	
4e	8,[11],12	13,14	[14],15,16	18,18	[8],12,12	[8],[9],11,13
	12,[15],17,[18]	13,13,[14]	29,[30],31.2	11,[15],[16],17	X,X,[Y]	7,[10],11
	[20],24,25			18,[25.2],29.2,[30.2]	6,7,[9.3]	11,11
	[14],17,18	[11]			[2]	
6LGYGD	Identifiler® Plus					
		17,23		14,15	7,11,12	
4e	8,11,12	13,14			12	8,11,13
	12,15,17	13,14	29,31.2		X	7,11
	24,25				6,7,9.3	10,11
	17,18					



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

6ZWUGM	PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
7262JF	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11			2	
73JPK8	GlobalFiler™					
	16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11			2	
7DZCU9	PowerPlex® Fusion 5C					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
7KHM7N	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11			2	
7QAVQH	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11			2	
84TYBJ	PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	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

88PGPY	PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
9P6AR8	Investigator® 24plex					
	[14],16.3,17.3	17,[20],23	10,14	14,15,[18]	7,12	
4e	8,[11],12	13,14	[14],15,16	18,[21]	[8],12	[8],[9],11,13
	12,[15],17,[18]	13,[14]	29,31.2	11,[15],17	X,[Y]	7,[10],11
	[20],24,25			18,[25.2],29.2,[30.2]	6,7,[9.3]	[10],11
	[14],17,18	[11]				
9WNFNE	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11			2	
A2G2U8	GlobalFiler™					
	[14],16.3,17.3	17,[20],[22],23	10,14	14,15,[16],[18]	7,[11],12	
4e	8,[11],12	13,14	[14],15,16	[17],18,18,[21]	[8],12,12	[8],[9],11,13
	12,[15],17,[18]	13,13,[14]	29,[30],31.2	11,[15],[16],17	X,X,[Y]	7,[10],11
	[20],24,25			18,[25.2],29.2,[30.2]	6,7,[9.3]	[10],11,11
	[14],17,18	[11]			[2]	
AJVDMX	GlobalFiler™					
	(14),16.3,17.3	17,(20,22),23	10,14	14,15,(16,18)	7,(11),12	
4e	8,11,12	13,14	14,15,16	(17),18,(21)	(8),12	(8,9),11,13
	12,(15),17,(18)	13,(14)	29,(30),31.2	11,(15,16),17	X,(Y)	7,(10),11
	(20),24,25			18,(25.2),29.2,(30.2)	6,7,(9.3)	(10),11
	(14),17,18	(11)			(2)	
AVCZWY	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11			2	
B2WFZW	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	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

B73BJW	GlobalFiler™					
	(14),16.3,17.3	17,(20,22),23	10,14	14,15,(16)	7,(11),12	
4e	8,(11),12	13,14	(14),15,16	18	(8),12	(8,9),11,13
	12,(15),17,(18)	13,(14)	29,(30),31.2	11,(15,16),17	X,(Y)	7,(10),11
	(20),24,25			18,(25.2),29.2,(30.2)	6,7,(9.3)	11
	(14),17,18	(11)			No results	
BA7CVA	Identifiler® Plus					
		17,20,22,23		14,15,16,18	7,11,12	
4e	8,11,12	13,14			8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2		X,Y	7,10,11
	20,24,25				6,7,9.3	10,11
	14,17,18					
BDTEXU	Identifiler® Plus					
		17,20,22,23		14,15,16,18	7,11,12	
4e	8,11,12	13,14			8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2		X,Y	7,10,11
	20,24,25				6,7,9.3	11
	14,17,18					
BMQL7Y	Identifiler® Plus					
		17,23		14,15	7,12	
4e	8,12	13,14			12,12	11,13
	12,17	13,13	29,31.2		X,X	7,11
	24,25				6,7	11,11
	17,18					
BN472U	PowerPlex® 21					
	14,16.3,17.3	17,20,22,23		14,15,16,18	7,11,12	11,12,21.3
4e	8,11,12	13,14		17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2		X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18					
BN7NBL	GlobalFiler™					
	[14],16.3,17.3	17,[20],[22],23	10,14	14,15,[16],[18]	7,[11],12	
4e	8,11,12	13,14	14,15,16	[17],18,[21]	[8],12	[8],[9],11,13
	12,[15],17,[18]	13,14	29,[30],31.2	11,[15],[16],17	X,[Y]	7,[10],11
	[20],24,25			18,[25.2],29.2,[30.2]	6,7,[9.3]	[10],11
	[14],17,18	11			2	
BPEX64	PowerPlex® Fusion 5C					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	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

BTY4NY	GlobalFiler™					
	[14],16.3,17.3	17,[20],[22],23	10,14	14,15,[16],[18]	7,[11],12	
	4e 8,[11],12	13,14	[14],15,16	18,18,[21]	[8],12,12	[8],[9],11,13
	12,[15],17,[18]	13,13,[14]	29,[30],31.2	11,[15],[16],17	X,X,[Y]	7,[10],11
	[20],24,25			18,[25.2],29.2,[30.2]	6,7,[9.3]	[10],11,11
	[14],17,18	[11]		[2]		
BV83Y9	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
	4e 8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11		2		
C7HU29	PowerPlex® Fusion 5C					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
	4e 8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
C8VLR4	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
	4e 8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11		2		
CD2M4E	Identifiler®					
		17,20,22,23		15,16,18	11,12	
	4e 11,12	13,14			8,12	8,9,13
	17,18	13,14	30,31.2		X,Y	7,10,11
	20,25				6,7,9.3	10,11
	14,18					
CN2T6K	PowerPlex® Fusion					
	16.3,17.3	17,20,22,23	10,14	14,15,16	7,11,12	
	4e 8,11,12	13,14	14,15,16	18	12	8,9,11,13
	12,15,17,18	13,14	29,31.2	11,16,17	X,Y	7,10,11
	20,24,25	9,14	10,11,15		6,7,9.3	10,11
	14,17,18					
CQMZHA	NGM					
	16.3,17.3	17,23	10,14	14,15		
	4e 11,12	13,14	15,16	18,18		11,13
	12,17	13,13	29,31.2	11,17	X,X	
	24,25				6,7	
	17,18					

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

CQPBR	PowerPlex® Fusion 6C					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15	18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11	18	19		
D68ATY	PowerPlex® Fusion 6C (LRmix Studio v. 2.1.3)					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15	18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11	18	19		
DCJQZY	Identifiler® Plus					
		17,20,22,23		14,15,16,18	7,11,12	
4e	8,11,12	13,14			8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2		X,Y	7,10,11
	20,24,25				6,7,9.3	10,11
	14,17,18					
DHAZ9B	PowerPlex® Fusion					
	16.3,17.3	17,22,23	10,14	14,15,16	7,11,12	
4e	8,11,12	13,14	14,15,16	18	12	11,13
	12,17	13	29,31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7,9.3	11
	17,18					
ECKV2T	GlobalFiler™ (STRmix)					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11			2	
EMFWRB	PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
ERCB78	GlobalFiler™					
	14,17.3	20	10,14	14,15,16,18	11,12	
4e	11	13,14	14,15,16	18,21	8,12	8,9,13
	12,15,17	13,14	29,30,31.2	11,15,16,17	X,Y	10,11
	20,24,25			29.2	6,7,9.3	10,11
	17,18				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

EU4E89	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	11,13
	12,17	13,14	29,31.2	11,16,17	X	7,10,11
	20,24,25			18,29.2	6,7,9.3	11
	17,18					
EZPMHQ	PowerPlex® 21 (STRmix)					
	14,16.3,17.3	17,20,22,23		14,15,16,18	7,11,12	11,12,21.3
4e	8,11,12	13,14		17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2		X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18					
F6VKGW	Identifiler® Plus					
		17,20,22,23		14,15,16,18	7,11,12	
4e	8,11,12	13,14			8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2		X,Y	7,10,11
	20,24,25				6,7,9.3	10,11
	14,17,18					
F82AJ7	PowerPlex® Fusion 6C					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16	7,11,12	
4e	8,11,12	13,14	14,15,16	18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	11,13,15	18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11				
F8KWF3	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11			2	
FD9GJH	PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
FDPRY3	GlobalFiler™					
	[14],16.3,17.3	17,[20],[22],23	10,14	14,15,[16],[18]	7,[11],12	
4e	8,[11],12	13,14	[14],15,16	[17],18,18,[21]	[8],12,12	[8],[9],11,13
	12,[15],17,[18]	13,13,[14]	29,[30],31.2	11,[15],[16],17	X,X,[Y]	7,[10],11
	[20],24,25			18,[25.2],29.2,[30.2]	6,7,[9.3]	[10],11,11
	[14],17,18	[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

FUD3L6	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,[Y]	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11			2	
GB2GZW	PowerPlex® Fusion					
4e		13				13
	12				X,X	
GBF62N	PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	NR				
GFF6ME	GlobalFiler™					
	[14],16.3,17.3	17,20,22,23	10,14	14,15,[16],[18]	7,[11],12	
4e	8,11,12	13,14	14,15,16	18,18,[21]	8,12	[8],[9],11,13
	12,[15],17,[18]	13,14	29,[30],31.2	11,[15],[16],17	X,X,[Y]	7,[10],11
	[20],24,25			18,[25.2],29.2,[30.2]	6,7,9.3	[10],11,11
	[14],17,18	[11]			[2]	
GWXC9B	PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	18,21	8,12	8,9,11,13
	12,15,17	13,14	29,31.2	11,15,17	X,Y	7,11
	20,24,25	6,9,14	10,11,13,15		6,7,9.3	11
	14,17,18	11				
GXBW8D	PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
H4WNXZ	Identifiler® Plus					
		17,20,22,23		14,15,16,18	7,11,12	
4e	8,12	13,14			8,12	8,9,11,13
	12,17	13,14	29,31.2		X	7,10,11
	20,24,25				6,7,9.3	10,11
	14,17,18					

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

H8A4CB	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11			2	
HMQW4N	PowerPlex® Fusion					
	(14),16.3,17.3	17,(20),(22),23	10,14	14,15,(16),(18)	7,(11),12	
4e	8,(11),12	13,14	(14),15,16	(17),18,(21)	(8),12	(8),(9),11,13
	12,(15),17,(18)	13,(14)	29,(30),31.2	11,(15),(16),17	X,(Y)	7,(10),11
	(20),24,25	(6),9,(12),14	(10),11,(13),15		6,7,(9.3)	(10),11
	(14),17,18	11				
HZAJAF	PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
J47ME8	PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
J49DKP	GlobalFiler™					
	[14],16.3,17.3	[17],20,22,23	10,14	14,15,[16],[18]	7,[11],12	
4e	8,11,12	13,14	14,15,16	[17],18,[21]	8,12	[8],[9],11,13
	12,[15],17,18	13,14	29,30,31.2	11,15,[16],17	X,[Y]	7,11
	20,24,25			[18],25.2,29.2,[30.2]	6,7,[9.3]	[10],11
	17,18	11			2	
JQP3A2	Identifiler® Plus					
		17,20,22,23		14,15,16,18	7,11,12	
4e	8,11,12	13,14			8,12	8,9,11,13
	12,17	13,14	29,30,31.2		X,Y	7,10,11
	20,24,25				6,7,9.3	10,11
	14,17,18					
K2FEXX	Identifiler® Plus					
		17,23		14,15	7,12	
4e	8,12	13,14			12	11,13
	12,17	13	29,31.2		X	7,11
	24,25				6,7	11
	17,18					



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

K4ACH6	PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
	4e 8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
KH9GMV	PowerPlex® Fusion 5C					
	14,16.3,17.3	17,22,23	10,14	14,15,16,18	7,11,12	
	4e 8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,17	X,Y	7,10,11
	20,24,25	6,9,12,14	11,13,15		6,7,9.3	10,11
	14,17,18					
KRWCLB	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
	4e 8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11		2		
KTRQBP	GlobalFiler™					
	[14],[16.3],17.3	20,[22],[23]	10,14	14,15,16,18	[7],11,12	
	4e 8,11,[12]	13,14	14,15,16	17,18,[21]	8,12	8,9,11,13
	12,15,17,18	13,14	[29],[30],31.2	11,15,16,17	X,Y	7,10,11
	20,[24],25			[18],25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11		2		
KVR264	PowerPlex® Fusion 5C					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
	4e 8,11,12	13,14	14,15,16	18,21	8,12	8,9,11,13
	12,15,17,18	13	29,30,31.2	11,15,17	X,Y	7,11
	20,24,25	9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
KYC2BB	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
	4e 8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11		2		
L2JJ8L	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
	4e 8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	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

L3UZ8Z	Identifiler®					
		17,23		14,15	7,12	
4e		8,12	13,14		12	11,13
		12,17	13	29,31.2	X	7,11
		24,25			6,7	11
		17,18				
L43HEP	Identifiler® Plus, PowerPlex® 21					
	[14],16.3,17.3	17,[20],[22],23		14,15,[16,18]	7,[11],12	[11],12,21.3
4e	8,[11],12	13,14		[17],18,[21]	[8],12	[8,9],11,13
	12,[15],17,[18]	13,[14]	29,[30],31.2		X,[Y]	7,[10],11
	[20],24,25	[6],9,[12],14	11,15		6,7,[9.3]	11,11
	[14],17,18					
L44HC4	PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
LE4AJA	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11			2	
LFYN9M	GlobalFiler™					
	[14],16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,[21]	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18				2	
LHMZ8T	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11			2	
LQVWQP	Identifiler®					
		17,20,22,23		14,15,16,18	7,11,12	
4e	8,11,12	13,14			8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2		X,Y	7,10,11
	20,24,25				6,7,9.3	10,11
	14,17,18					

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

LYBDLK	PowerPlex® Fusion 5C					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
M6UZTV	GlobalFiler™					
	[14],16.3,17.3	17,[20],[22],23	10,14	14,15,[16],[18]	7,[11],12	
4e	8,[11],12	13,14	[14],15,16	[17],18,18,[21]	[8],12,12	[8],[9],11,13
	12,[15],17,[18]	13,13,[14]	29,[30],31.2	11,[15],[16],17	X,X,[Y]	7,[10],11
	[20],24,25			18,[25.2],29.2,[30.2]	6,7,[9.3]	[10],11,11
	[14],17,18	[11]			[2]	
M6Y97P	GlobalFiler™					
	[14],16.3,17.3	17,[20],[22],23	10,14	14,15,[16],[18]	7,[11],12	
4e	8,[11],12	13,14	[14],15,16	18,18,[21]	[8],12,12	[8],[9],11,13
	12,[15],17,[18]	13,13,[14]	29,[30],31.2	11,[15],[16],17	X,X,[Y]	7,[10],11
	[20],24,25			18,[25.2],29.2,[30.2]	6,7,[9.3]	[10],11,11
	[14],17,18	[11]			[2]	
MCV479	PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
MD6RAZ	GlobalFiler™					
	14,16.3,[17.3]	[17],20,22,23	10,14	14,15,16,18	[7],[11],12	
4e	11,[12]	13,14	14,15,16	17,18,21	[8],12	8,11,13
	12,[15],[18]	13,14	[29],30,31.2	11,15	X,Y	7,10,11
	20,[24],25			25.2,29.2,30.2	[6],7,[9.3]	[10],11
	[14],[17],18	11			2	
MFR29K	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11			2	
N3ZUNP	PowerPlex® Fusion					
	16.3,17.3	17	10,14	14,15,18	12	
4e	11,12	13,14	14,16	18	8,12	11,13
	12,17	13,14	29,31.2	11,17	X,Y	7,11
	24,25	6,9	10,11		6	11
	17,18					

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

N9LPM8	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
	4e 8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11		2		
NMRTZE	PowerPlex® Fusion 6C					
	(14),16.3,17.3	17,(20,22),23	10,14	14,15,(16,18)	7,11,12	
	4e 8,11,12	13,14	14,15,16	(17),18,18,(21)	8,12	(8,9),11,13
	12,(15),17,(18)	13,14	29,(30),31.2	11,(15,16),17	X,X,(Y)	7,(10),11
	(20),24,25	(6),9,(12),14	(10),11,(13),15	18,(25.2),29.2,(30.2)	6,7,(9.3)	(10),11,11
	(14),17,18	(11)	(18)	(19)		
NY3237	PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
	4e 8,11,12	13,14	14,15,16	18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18					
NYK2XV	GlobalFiler™					
	(14),16.3,17.3	17,(20),(22),23	10,14	14,15,16,18	7,11,12	
	4e 8,11,12	13,14	14,15,16	(17),18,(21)	(8),12	(8),(9),11,13
	12,(15),17,(18)	13,14	29,(30),31.2	11,15,16,17	X,(Y)	7,(10),11
	(20),24,25			18,(25.2),29.2,(30.2)	6,7,(9.3)	11
	(14),17,18	No Result		2		
P7ZF2D	GlobalFiler™					
	[14],16.3,17.3	17,20,22,23	10,14	14,15,[16],[18]	7,[11],12	
	4e 8,[11],12	13,14	[14],15,16	18,18,[21]	[8],12,12	[8],[9],11,13
	12,[15],17,[18]	13,13,[14]	29,[30],31.2	11,[15],[16],17	X,X,(Y)	7,[10],11
	[20],24,25			18,[25.2],29.2,[30.2]	6,7,9.3	[10],11,11
	[14],17,18	[11]		[2]		
PTXPKE	Identifiler® Plus					
		17,23		14,15	7,12	
	4e 8,11,12	13,14			12	9,11,13
	12,17	13,14	29,31.2		X,X	7,11
	24,25				6,7	11
	17,18					
PUL8BE	PowerPlex® Fusion (TrueAllele Casework)					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
	4e 8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	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

Q3AH3L	GlobalFiler™					
		16.3,17.3	17,22,23	10,14	14,15	7,12
4e		8,11,12	13,14	14,15,16	18	11,13
		12,17	13	29,31.2	11,17	X,Y
		24,25			18,29.2	6,7
		17,18	11			2
Q7T6MZ	Identifiler® Plus					
			17,20,22,23		14,15,16,18	7,11,12
4e		11,11	13,14			8,12
		12,15,17,18	13,14	29,30,31.2		X,Y
		20,24,25				6,7,9.3
		14,17,18				10,11
Q8METG	GlobalFiler™					
		14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12
4e		8,11,12	13,14	14,15,16	17,18,21	8,12
		12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y
		20,24,25			18,25.2,29.2,30.2	6,7,9.3
		14,17,18	11			2
QFG96T	GlobalFiler™					
		14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12
4e		8,11,12	13,14	14,15,16	17,18,21	8,12
		12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y
		20,24,25			18,25.2,29.2,30.2	6,7,9.3
		14,17,18	11			2
QJ37HB	GlobalFiler™					
		[14],16.3,17.3	17,20,22,23	10,14	14,15,[16],[18]	7,[11],12
4e		8,[11],12	13,14	[14],15,16	18,18,[21]	[8],[9],11,13
		12,[15],17,[18]	13,13,[14]	29,[30],31.2	11,[15],[16],17	X,X,[Y]
		[20],24,25			18,[25.2],29.2,[30.2]	6,7,9.3
		[14],17,18	[11]			[10],11,11
						[2]
QLM6NT	GlobalFiler™					
		14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12
4e		8,11,12	13,14	14,15,16	17,18,21	8,12
		12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y
		20,24,25			18,25.2,29.2,30.2	6,7,9.3
		14,17,18	11			2
QPP9RW	GlobalFiler™					
		14,17.3	17	10,14	16,18	11,12
4e		11,12	13,14	14,15,16	17,18,21	12
		12,15,17	13,14	29,30,31.2	11,15,16,17	X,Y
		20,25			18,30.2	7
		14,18	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

RABYB7	PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
RAR92L	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11			2	
TUERLQ	Identifiler® Plus					
		17,20,22,23		14,15,16	7,11,12	
4e	8,11,12	13,14			8,12	8,9,11,13
	12,17,18	13,14	29,30,31.2		X,Y	7,10,11
	20,24,25				6,7,9.3	10,11
	14,17,18					
TUXWDH	GlobalFiler™					
	[14],16.3,17.3	17,[20],[22],23	10,14	14,15,[16],[18]	7,[11],12	
4e	8,[11],12	13,14	[14],15,16	18,18	[8],12,12	[8],[9],11,13
	12,[15],17,[18]	13,13,[14]	29,[30],31.2	11,[15],[16],17	X,X,[Y]	7,[10],11
	[20],24,25			18,[25.2],29.2,[30.2]	6,7,[9.3]	11,11
	[14],17,18	[11]			[2]	
U6PJNQ	Identifiler® Plus					
		17,20,22,23		14,15,16,18	7,11,12	
4e	8,12	13,14			8,12	8,11,13
	12,17	13,14	29,31.2		X,Y	7,10,11
	24,25				6,7,9.3	10,11
	17,18					
UBFTYN	Identifiler® Plus					
		17,20,22,23		14,15,16,18	7,11,12	
4e	8,11,12	13,14			8,12	8,9,11,13
	12,17	13,14	29,31.2		X,Y	7,11
	20,24,25				6,7,9.3	10,11
	14,17,18					
UQPCGT	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	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

VAWYHR	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11			2	
VKD4A	PowerPlex® Fusion					
	16.3,17.3	17,23	10,14	14,15	7,(11),12	
4e	8,(11),12	13,14	15,16	18,(21)	12	11,13
	12,17	13,(14)	29,(30),31.2	11,17	X	7,11
	24,25	9,14	11,15		6,7	11
	17,18	NR				
VQ4W4C	GlobalFiler™					
	(14),16.3,17.3	17,(20,22),23	10,14	14,15,(16,18)	7,(11),12	
4e	8,11,12	13,14	14,15,16	(17),18,(21)	(8),12	(8,9),11,13
	12,(15),17,(18)	13,(14)	29,(30),31.2	11,(15,16),17	X,(Y)	7,(10),11
	(20),24,25			18,(25.2),29.2,(30.2)	6,7,(9.3)	(10),11
	(14),17,18	(11)			(2)	
VQJFMA	PowerPlex® Fusion 5C					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	18,21	8,12	8,9,11,13
	12,15,17	13,14	29,30,31.2	11,15,17	X,Y	7,10,11
	20,24,25	9,12,14	10,11,15		6,7,9.3	10,11
	14,17,18	11				
VUNFYM	Identifiler® Plus					
		17,20,22,23		14,15,16,18	7,11,12	
4e	8,11,12	13,14			8,12	8,9,11,13
	12,17	13,14	29,31.2		X	7,10,11
	20,24,25				6,7,9.3	10,11
	17,18					
WB44LM	Identifiler® Plus					
		17,20,23		14,15,16,18	7,11,12	
4e	8,11,12	13,14			8,12	8,11,13
	12,17	13,14	29,30,31.2		X,Y	7,10,11
	20,24,25				6,7,9.3	10,11
	14,17,18					
X8GGBR	PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	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

X8NGK8	PowerPlex® 21					
	14,16.3,17.3	17,20,22,23		14,15,16,18	7,11,12	11,12,21.3
	4e 8,11,12	13,14		18,18	8,12	8,9,11,13
	12,15,17,18	13,13,14	29,30,31.2		X,X,Y	7,11
	20,24,25	6,9,14	11,13,15		6,7,9.3	11,11
	14,17,18					
XL3UR8	PowerPlex® Fusion					
	16.3,17.3	17,20,22,23	10,14	14,15	7,12	
	4e 8,11,12	13,14	14,15,16	18,21	8,12	8,9,11,13
	12,15,17	13,14	29,31.2	11,17	X,Y	7,11
	20,24,25	9,14	11,15		6,7	11
	17,18	NR				
XMH7F6	GlobalFiler™					
	[14],16.3,17.3	17,[20],[22],23	10,14	14,15,[16],[18]	7,[11],12	N/A
	4e 8,12	13,14	[14],[14],15,16	18,18,[21]	[8],12,12	[8],[9],11,13
	12,[15],17,[18]	13,13,[14]	29,[30],31.2	11,[15],[16],17	X,X,[Y]	7,11
	[20],24,25	N/A	N/A	18,[25.2],29.2,[30.2]	6,7,[9.3]	[10],11,11
	[14],17,18	[11]	N/A	[2]		
XRCPWG	PowerPlex® Fusion 5C					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
	4e 8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
XUUAEQ	PowerPlex® Fusion					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
	4e 8,11,12	13,14	14,15,16	18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
XUW83N	Identifiler® Plus					
		17,20,22,23		14,15,18	7,11,12	
	4e 8,12	13,14			8,12	9,11,13
	12,17	13,14	29,31.2		X,Y	7,10,11
	24,25				6,7,9.3	10,11
	17,18					
YYN74G	PowerPlex® Fusion 5C					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
	4e 8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	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

YB2J74	GlobalFiler™					
	[14],16.3,17.3	17,[20],[22],23	10,14	14,15,[16],[18]	7,[11],12	
4e	8,[11],12	13,14	[14],15,16	18,18	[8],12,12	[8],[9],11,13
	12,[15],17,[18]	13,13,[14]	29,[30],31.2	11,[15],[16],17	X,X,[Y]	7,[10],11
	[20],24,25			18,[25.2],29.2,[30.2]	6,7,[9.3]	11,11
	[14],17,18	[11]			[2]	
YLFKFH	PowerPlex® ESI-16					
	(14),16.3,17.3	17,(22),23	10,14	14,15,(16),(18)		
4e		13,14	(14),15,16	18,(21)		(8),11,13
	12,(15),17,(18)	13,(14)	29,(30),31.2	11,(15),(16),17	X,(Y)	
	(20),24,25				6,7,(9.3)	
	(14),17,18					
ZA4QL6	Identifiler® Plus (STRmix)					
		17,20,22,23		14,15,16,18	7,11,12	
4e	8,11,12	13,14			8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2		X,Y	7,11
	20,24,25				6,7,9.3	11
	14,17,18					
ZCTEAK	Identifiler® Plus					
		17,20,22,23		14,15,16,18	7,11,12	
4e	8,11,12	13,14			8,12	8,9,11,13
	12,17,18	13,14	29,30,31.2		X,Y	7,10,11
	20,24,25				6,7,9.3	10,11
	17,18					
ZHXATK	PowerPlex® Fusion 5C, NGM					
	16.3,17.3	17,23	10,14	14,15	7,12	
4e	8,12	13,14	15,16	18,18	12,12	11,13
	12,17	13,13	29,31.2	11,17	X,X	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18	-				
ZMCCA4	GlobalFiler™					
	[14],16.3,17.3	17,[20],[22],23	10,14	14,15,[16],[18]	7,[11],12	
4e	8,[11],12	13,14	[14],15,16	18,18	[8],12,12	[8],[9],11,13
	12,[15],17,[18]	13,13,[14]	29,[30],31.2	11,[15],[16],17	X,X,[Y]	7,[10],11
	[20],24,25			18,[25.2],29.2,[30.2]	6,7,[9.3]	11,11
	[14],17,18	[11]			[2]	
ZPDNKA	PowerPlex® 16 HS					
				14,15	7,12	
4e	8,12	13,14			12,12	11,13
	12,17		29,31.2		X,X	7,11
	24,25	9,14	11,15		6,7	11,11
	17,18					

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

ZR2ZJF	PowerPlex® Fusion 5C					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4e	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25	6,9,12,14	10,11,13,15		6,7,9.3	10,11
	14,17,18	11				
ZX7W4F	Investigator® 24plex					
	16.3,17.3	17,[20],23	10,14	14,15,[18]	7,12	
4e	8,[11],12	13,14	[14],15,16	18,[21]	[8],12	[8],[9],11,13
	12,[15],17,[18]	13,[14]	29,31.2	11,[15],17	X,[Y]	7,11
	[20],24,25			18,29.2	6,7,[9.3]	11
	[14],17,18	[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

22ME94	Identifiler® Plus					
		20,22		16,18	11,12	
4sp		11,11	13,14		8,12	8,9
		15,18	14,14	30,31.2	X,Y	10,11
		20,25			7,9.3	10,11
		14,18				
2932UT	GlobalFiler™					
		14,17.3	20,22	10,14	16,18	11,12
4sp		11,11	13,14	14,14	17,21	8,12
		15,18	14,14	30,31.2	15,16	X,Y
		20,25			25.2,30.2	7,9.3
		14,18	11			2
29HLEP	PowerPlex® Fusion					
		14,17.3	20,22	10,14	16,18	11,12
4sp		11	13,14	14	17,21	8,12
		15,18	14	30,31.2	15,16	X,Y
		20,25	6,12	10,13		7,9.3
		14,18	11			10,11
2EV7QH	GlobalFiler™					
		14,17.3	20,22	10,14	16,18	11,12
4sp		11	13,14	14	17,21	8,12
		15,18	14	30,31.2	15,16	X,Y
		20,25			25.2,30.2	7,9.3
		14,18	11			2
2VHK4A	PowerPlex® Fusion					
		14,17.3	20,22	10,14	16,18	11,12
4sp		11	13,14	14	17,21	8,12
		15,18	14	30,31.2	15,16	X,Y
		20,25	6,12	10,13	25.2,30.2	7,9.3
		14,18	11	18	19	10,11
2XLHDG	GlobalFiler™					
		14,17.3	20,22	10,14	16,18	11,12
4sp		11,11	13,14	14,14	17,21	8,12
		15,18	14,14	30,31.2	15,16	X,Y
		20,25			25.2,30.2	7,9.3
		14,18	11			2
33T7QJ	GlobalFiler™					
		14,17.3	20,22	10,14	[15],16,18	[7],11,12
4sp		[8],11	13,14	14,[16]	17,[18],21	8,12
		15,[17],18	[13],14	[29],30,31.2	15,16,[17]	X,Y
		20,[24],25	Not Tested	Not Tested	[18],25.2,30.2	[6],7,9.3
		14,[17],18	11	See YSTR	See YSTR	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

38NWWU	GlobalFiler™					
		14,17.3	20,22	10,14	16,18	11,12
4sp		11	13,14	14	17,21	8,12
		15,18	14	30,31.2	15,16	X,Y
		20,25			25.2,30.2	7,9.3
		14,18	11			2
39X8NR	GlobalFiler™					
		14,17.3	20,22	10,14	16,18	11,12
4sp		11	13,14	14	17,21	8,12
		15,18	14	30,31.2	15,16	X,Y
		20,25			25.2,30.2	7,9.3
		14,18	11			2
3BN73P	PowerPlex® Fusion					
		14,17.3	20,22	10,14	16,18	11,12
4sp		11	13,14	14	17,21	8,12
		15,18	14	30,31.2	15,16	X,Y
		20,25	6,12	10,13		7,9.3
		14,18	11			10,11
3HNMH3	PowerPlex® Fusion					
		14,17.3	[17],20,22	10,14	[15],16,18	[7],11,12
4sp		[8],11,[12]	13,14	14,[15]	17,[18],21	8,12
		[12],15,[17],18	[13],14	[29],30,31.2	15,16	X,Y
		20,[24],25	6,[9],12,[14]	10,[11],13,[15]		7,9.3
		14,[17],18	11			10,11
3TQW8Z	GlobalFiler™					
		14,17.3	20,22	10,14	16,18	11,12
4sp		11,11	13,14	14,14	17,21	8,12
		15,18	14,14	30,31.2	15,16	X,Y
		20,25			25.2,30.2	7,9.3
		14,18	11			2
3UZ4AT	GlobalFiler™					
		14,17.3	20,22	10,14	16,18	11,12
4sp		11	13,14	14	17,21	8,12
		15,18	14,14	30,31.2	15,16	X,Y
		20,25			[18],25.2,30.2	7,9.3
		14,18	11			2
3VBUCH	ESI					
		14,17.3	20,22	10,14	16,18	
4sp			13,14	14,14	17,21	8,9
		15,18	14,14	30,31.2	15,16	X,Y
		20,25			25.2,30.2	7,9.3
		14,18				

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

43BPW2

	14,17.3	20,22	10,14	16,18	11,12	
4sp	11,11	13,14	14,14	17,21	8,12	8,9
	15,18	14,14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	11			2	

4K7AMU

PowerPlex® Fusion

	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18	11				

4L3MAM

PowerPlex® Fusion

	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18	11				

4QEPWJ

GlobalFiler™

	14,17.3	20,22	10,14	14,16,18	11,12	
4sp	8,11,12	13,14	14,16	17,18,21	8,12	8,9
	15,17,18	13,14	29,30,31.2	15,16	X,Y	7,10,11
	20,24,25			18,25.2,30.2	6,7,9.3	10,11
	14,18	11			2	

62A26P

GlobalFiler™

	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	11			2	

6FRJQL

Identifiler®

		20,22		16,18	11,12	
4sp	11,11	13,14			8,12	8,9
	15,18	14,14	30,31.2		X,Y	10,11
	20,25				7,9.3	10,11
	14,18					

6KPNE6

GlobalFiler™

	14,17.3	20,22	10,14	16,18	11,12	
4sp	11,11	13,14	14,14	17,21	8,12	8,9
	15,18	14,14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	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

6LGYGD	Identifiler® Plus					
		20,22		16,18	11,12	
4sp	11	13,14			8,12	8,9
	15,18	14	30,31.2		X,Y	10,11
	20,25				7,9.3	10,11
	14,18					
6ZWUGM	PowerPlex® Fusion					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18	11				
7262JF	GlobalFiler™					
	14,17.3	17,20,22	10,14	14,16,18	7,11,12	
4sp	8,11,12	13,14	14,16	17,18,21	8,12	8,9,11,13
	15,17,18	13,14	29,30,31.2	11,15,16	X,Y	10,11
	20,24,25			18,25.2,29.2,30.2	7,9.3	10,11
	14,18	11			2	
73JPK8	GlobalFiler™					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	11			2	
7DZCU9	PowerPlex® Fusion 5C					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11,11	13,14	14,14	17,21	8,12	8,9
	15,18	14,14	30,31.2	15,16	X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18	11				
7KHM7N	GlobalFiler™					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11,11	13,14	14,14	17,21	8,12	8,9
	15,18	14,14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	11			2	
7QAVQH	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4sp	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	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

84TYBJ	PowerPlex® Fusion					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18	11				
88PGPY	PowerPlex® Fusion					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18	11				
9P6AR8	Investigator® 24plex					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14,[16]	17,[18],21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	11				
9WNFNE	GlobalFiler™					
	14,[16.3],17.3	[17],20,22,[23]	10,14	[14],[15],16,18	[7],11,12	
4sp	[8],11,[12]	13,14	14,[15],[16]	17,[18],21	8,12	8,9,[11],[13]
	[12],15,[17],18	[13],14	[29],30,31.2	[11],15,16,[17]	X,Y	[7],10,11
	20,[24],25			[18],25.2,[29.2],30.2	[6],7,9.3	10,11
	14,[17],18	11			2	
A2G2U8	GlobalFiler™					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11,11	13,14	14,14	17,21	8,12	8,9
	15,18	14,14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	11			2	
AJVDMX	GlobalFiler™					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	11			2	
AVCZWY	GlobalFiler™					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	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

B2WFZW	GlobalFiler™					
		14,17.3	20,22	10,14	16,18	11,12
4sp		11	13,14	14	17,21	8,9
		15,18	14	30,31.2	15,16	X,Y
		20,25			25.2,30.2	7,9.3
		14,18	11			2
B73BJW	GlobalFiler™					
		14,17.3	20,22	10,14	16,18	11,12
4sp		11	13,14	14	17,21	8,9
		15,18	14	30,31.2	15,16	X,Y
		20,25			25.2,30.2	7,9.3
		14,18	11			2
BA7CVA	Identifiler® Plus					
			20,22		16,18	11,12
4sp		11	13,14			8,9
		15,18	14	30,31.2		X,Y
		20,25				7,9.3
		14,18				10,11
BDTEXU	Identifiler® Plus					
			20,22		16,18	11,12
4sp		11,11	13,14			8,9
		15,18	14,14	30,31.2		X,Y
		20,25				7,9.3
		14,18				10,11
BMQL7Y	Identifiler® Plus					
			20,22		16,18	11,12
4sp		11,11	13,14			8,9
		15,18	14,14	30,31.2		X,Y
		20,25				7,9.3
		14,18				10,11
BN472U	PowerPlex® 21					
		14,17.3	20,22		16,18	11,12
4sp		11,11	13,14		17,21	8,9
		15,18	14,14	30,31.2		X,Y
		20,25	6,12	10,13		7,9.3
		14,18				10,11
BN7NBL	GlobalFiler™					
		14,17.3	20,22	10,14	16,18	11,12
4sp		11	13,14	14	17,21	8,9
		15,18	14	30,31.2	15,16	X,Y
		20,25			25.2,30.2	7,9.3
		14,18	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

BPEX64	PowerPlex® Fusion 5C					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11,11	13,14	14,14	17,21	8,12	8,9
	15,18	14,14	30,31.2	15,16	X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18	11				
BTY4NY	GlobalFiler™					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11,11	13,14	14,14	17,21	8,12	8,9
	15,18	14,14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,[17],18	11			2	
BV83Y9	GlobalFiler™					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	11			2	
C7HU29	PowerPlex® Fusion 5C					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	29,30,31.2	15,16	X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18	11				
C8VLR4	GlobalFiler™					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	11			2	
CD2M4E	Identifiler®					
		20,22		16,18	11,12	
4sp	11,11	13,14			8,12	8,9
	15,18	14,14	30,31.2		X,Y	10,11
	20,25				7,9.3	10,11
	14,18					
CN2T6K	PowerPlex® Fusion					
	14,17.3	17,20,22	10,14	16,18	11,12	
4sp	11	13,14	14,15	17,21	8,12	8,9
	15,17,18	13,14	29,30,31.2	15,16	X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18	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

CQMZHA	NGM					
		14,17.3	20,22	10,14	16,18	
4sp			13,14	14,14	17,21	8,9
		15,18	14,14	30,31.2	15,16	X,Y
		20,25				7,9.3
		14,18				
CQPB9R	PowerPlex® Fusion 6C					
		14,17.3	20,22	10,14	16,18	11,12
4sp			13,14	14,14	17,21	8,12
		15,18	14,14	30,31.2	15,16	X,Y
		20,25	6,12	10,13	25.2,30.2	7,9.3
		14,18	11	18	19	10,11
D68ATY	PowerPlex® Fusion 6C (LRmix Studio v. 2.1.3)					
		14,17.3	20,22	10,14	16,18	11,12
4sp			13,14	14,14	17,21	8,12
		15,18	14,14	30,31.2	15,16	X,Y
		20,25	6,12	10,13	25.2,30.2	7,9.3
		14,18	11	18	19	10,11
DCJQZY	Identifiler® Plus					
			20,22		16,18	11,12
4sp		11	13,14			8,12
		15,18	14	30,31.2		X,Y
		20,25				7,9.3
		14,18				10,11
DHAZ9B	PowerPlex® Fusion					
		14,17.3	20,22	10,14	16,18	11,12
4sp			13,14	14	17,21	8,12
		15,18	14	30,31.2	15,16	X,Y
		20,25	6,12	10,13		7,9.3
		14,18	11			10,11
ECKV2T	GlobalFiler™ (STRmix)					
		14,17.3	20,22	10,14	16,18	11,12
4sp			13,14	14,14	17,21	8,12
		15,18	14,14	30,31.2	15,16	X,Y
		20,25			25.2,30.2	7,9.3
		14,18	11			10,11
						2
EMFWRB	PowerPlex® Fusion					
		14,17.3	20,22	10,14	16,18	11,12
4sp			13,14	14	17,21	8,12
		15,18	14	30,31.2	15,16	X,Y
		20,25	6,12	10,13		7,9.3
		14,18	11			10,11

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

ERC878	GlobalFiler™						
		14,[16.3],17.3	[17],20,22,[23]	10,14	[14],[15],16,18	[7],11,12	
	4sp	[8],11,[12]	13,14	14,[15],[16]	17,18,21	8,12	8,9,[11],[13]
		[12],15,[17],18	[13],14	[29],30,31.2	[11],15,16,[17]	X,Y	[7],10,11
		20,[24],25			[18],25.2,[29.2],30.2	[6],7,9.3	10,11
	14,[17],18	11			2		
EU4E89	GlobalFiler™						
		14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
	4sp	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
		12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
		20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11			2		
EZPMHQ	PowerPlex® 21 (STRmix)						
		14,17.3	20,22		14,16,18	11,12	11,12,21.3
	4sp	8,11	13,14		17,18,21	8,12	8,9
		12,15,18	13,14	29,30,31.2		X,Y	10,11
		20,24,25	6,9,12	10,11,13		7,9.3	10,11
	14,17,18						
F6VKGW	Identifiler® Plus						
			20,22		16,18	11,12	
	4sp	11	13,14			8,12	8,9
		15,18	14	30,31.2		X,Y	10,11
		20,25				7,9.3	10,11
	14,18						
F82AJ7	PowerPlex® Fusion 6C						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11,11	13,14	14,14	17,21	8,12	8,9
		15,18	14,14	30,31.2	15,16	X,Y	10,11
		20,25	6,12	10,13	25.2,30.2	7,9.3	10,11
	14,18	11	18	19			
F8KWF3	GlobalFiler™						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11,11	13,14	14,14	17,21	8,12	8,9
		15,18	14,14	30,31.2	15,16	X,Y	10,11
		20,25			25.2,30.2	7,9.3	10,11
	14,18	11			2		
FD9GJH	PowerPlex® Fusion						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11	13,14	14	17,21	8,12	8,9
		15,18	14	30,31.2	15,16	X,Y	10,11
		20,25	6,12	10,13		7,9.3	10,11
	14,18	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

FDPRY3	GlobalFiler™						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11,11	13,14	14,14	17,21	8,12	8,9
		15,18	14,14	30,31.2	15,16	X,Y	10,11
		20,25			25.2,30.2	7,9.3	10,11
	14,18	11			2		
FUD3L6	GlobalFiler™						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11	13,14	14	17,21	8,12	8,9
		15,[17],18	14	30,31.2	15,16	X,Y	10,11
		20,25			25.2,30.2	7,9.3	10,11
	14,18	11			2		
GB2GZW	PowerPlex® Fusion						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11,11	13,14	14,14	17,21	8,12	8,9
		15,18	14,14	30,31.2	15,16	X,Y	10,11
		20,25	6,12	10,13		7,9.3	10,11
	14,18	11					
GBF62N	PowerPlex® Fusion						
		14,17.3	17,20,22	10,14	14,16,18	7,11,12	
	4sp	8,11,12	13,14	14,15	17,18,21	8,12	8,9,11,13
		15,17,18	13,14	29,30,31.2	15,16	X,Y	10,11
		20,24,25	6,9,12	10,11,13,15		7,9.3	10,11
	14,17,18	11					
GFF6ME	GlobalFiler™						
		14,17.3	20,22	10,14	[14],16,18	11,12	
	4sp	[8],11,11	13,14	14,14,[16]	17,21	8,12	8,9
		15,18	14,14	[29],30,31.2	[11],15,16	X,Y	10,11
		20,[24],25			25.2,30.2	7,9.3	10,11
	14,18	11			2		
GWXC9B	PowerPlex® Fusion						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11	13,14	14	17,21	8,12	8,9
		15,18	14	30,31.2	15,16	X,Y	10,11
		20,25	6,12	10,13		7,9.3	10,11
	14,18	11					
GXBW8D	PowerPlex® Fusion						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11	13,14	14	17,21	8,12	8,9
		15,18	14	30,31.2	15,16	X,Y	10,11
		20,25	6,12	10,13		7,9.3	10,11
	14,18	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

H4W NXZ	Identifiler® Plus					
		20,22		16,18	11,12	
4sp	11	13,14			8,12	8,9
	15,18	14	30,31.2		X,Y	10,11
	20,25				7,9.3	10,11
	14,18					
H8A4CB	GlobalFiler™					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11,11	13,14	14,14	17,21	8,12	8,9
	15,18	14,14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	11			2	
HMqw4N	PowerPlex® Fusion					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18	11				
HZAJAF	PowerPlex® Fusion					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18	11				
J47ME8	PowerPlex® Fusion					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18	11				
J49DKP	GlobalFiler™					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,[17],18	14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	11			2	
JQP3A2	Identifiler® Plus					
		20,22		16,18	11,12	
4sp	11	13,14			8,12	8,9
	15,18	14	30,31.2		X,Y	10,11
	20,25				7,9.3	10,11
	14,18					

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

K2FEXX	Identifiler® Plus					
		20,22		16,18	11,12	
4sp	11	13,14			8,12	8,9
	15,18	14	30,31.2		X,Y	10,11
	20,25				7,9.3	10,11
	14,18					
K4ACH6	PowerPlex® Fusion					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18	11				
KH9GMV	PowerPlex® Fusion 5C					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11,11	13,14	14,14	17,21	8,12	8,9
	15,18	14,14	30,31.2	15,16	X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18	11				
KRWCLB	GlobalFiler™					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	11			2	
KTRQBP	GlobalFiler™					
	14,[16.3],17.3	[17],20,22	10,14	[14],[15],16,18	[7],11,12	
4sp	[8],11,[12]	13,14	14,[15],[16]	17,[18],21	8,12	8,9,[11],[13]
	[12],15,[17],18	[13],14	[29],30,31.2	[11],15,16,[17]	X,Y	[7],10,11
	20,[24],25			25.2,[29.2],30.2	[6],7,9.3	10,11
	14,[17],18	11			2	
KVR264	PowerPlex® Fusion 5C					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18	11				
KYC2BB	GlobalFiler™					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	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

L2JJ8L	GlobalFiler™						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11	13,14	14	17,21	8,12	8,9
		15,18	14	30,31.2	15,16	X,Y	10,11
		20,25			25.2,30.2	7,9.3	10,11
		14,18	11			2	
L3UZ8Z	Identifiler®						
			20,22		16,18	11,12	
	4sp	11	13,14			8,12	8,9
		15,18	14	30,31.2		X,Y	10,11
		20,25				7,9.3	10,11
		14,18					
L43HEP	Identifiler® Plus, PowerPlex® 21						
		14,17.3	20,22		16,18	11,12	11,12
	4sp	11,11	13,14		17,21	8,12	8,9
		15,18	14,14	30,31.2		X,Y	10,11
		20,25	6,12	10,13		7,9.3	10,11
		14,18					
L44HC4	PowerPlex® Fusion						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11	13,14	14	17,21	8,12	8,9
		15,18	14	30,31.2	15,16	X,Y	10,11
		20,25	6,12	10,13		7,9.3	10,11
		14,18	11				
LE4AJA	GlobalFiler™						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11	13,14	14	17,21	8,12	8,9
		15,18	14	30,31.2	15,16	X,Y	10,11
		20,25			25.2,30.2	7,9.3	10,11
		14,18	11			2	
LFYN9M	GlobalFiler™						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11	13,14	14	17,21	8,12	8,9
		15,18	14	30,31.2	15,16	X,Y	10,11
		20,25			25.2,30.2	7,9.3	10,11
		14,18	11			2	
LHMZ8T	GlobalFiler™						
		14,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
	4sp	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
		12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
		20,24,25			25.2,29.2,30.2	6,7,9.3	10,11
		14,17,18	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

LQVWQP	Identifiler®					
		20,22		16,18	11,12	
4sp		11	13,14		8,12	8,9
		15,18	14	30,31.2	X,Y	10,11
		20,25			7,9.3	10,11
		14,18				
LYBDLK	PowerPlex® Fusion 5C					
		14,17.3	20,22	10,14	16,18	11,12
4sp		11	13,14	14	17,21	8,12
		15,18	14	30,31.2	15,16	X,Y
		20,25	6,12	10,13		7,9.3
		14,18	11			10,11
M6UZTV	GlobalFiler™					
		14,17.3	20,22	10,14	16,18	11,12
4sp		11,11	13,14	14,14	17,21	8,12
		15,18	14,14	30,31.2	15,16	X,Y
		20,25			25.2,30.2	7,9.3
		14,18	11			10,11
					2	
M6Y97P	GlobalFiler™					
		14,17.3	20,22	10,14	16,18	11,12
4sp		11,11	13,14	14,14	17,21	8,12
		15,18	14,14	30,31.2	15,16	X,Y
		20,25			25.2,30.2	7,9.3
		14,18	11			10,11
					2	
MCV479	PowerPlex® Fusion					
		14,17.3	20,22	10,14	16,18	11,12
4sp		11	13,14	14	17,21	8,12
		15,18	14	30,31.2	15,16	X,Y
		20,25	6,12	10,13		7,9.3
		14,18	11			10,11
MD6RAZ	GlobalFiler™					
		14,[16.3],17.3	[17],20,22,[23]	10,14	[14],16,18	[7],11,12
4sp		[8],11,[12]	13,14	14,[15],[16]	17,[18],21	8,12
		[12],15,[17],18	[13],14	[29],30,31.2	[11],15,16,[17]	8,9,[11],[13]
		20,[24],25			[18],25.2,[29.2],30.2	[7],10,11
		14,[17],18	11			[6],7,9.3
						10,11
					2	
MFR29K	GlobalFiler™					
		14,17.3	20,22	10,14	16,18	11,12
4sp		11	13,14	14	17,21	8,12
		15,18	14	30,31.2	15,16	X,Y
		20,25			25.2,30.2	7,9.3
		14,18	11			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

N3ZUNP	PowerPlex® Fusion						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11,11	13,14	14,14	17,21	8,12	8,9
		15,18	14,14	30,31.2	15,16	X,Y	10,11
		20,25	6,12	10,13		7,9.3	10,11
		14,18	11				
N9LPM8	GlobalFiler™						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11	13,14	14	17,21	8,12	8,9
		15,18	14	30,31.2	15,16	X,Y	10,11
		20,25			25.2,30.2	7,9.3	10,11
		14,18	11			2	
NMRTZE	PowerPlex® Fusion 6C						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11,11	13,14	14,14	17,21	8,12	8,9
		15,18	14,14	30,31.2	15,16	X,Y	10,11
		20,25	6,12	10,13	25.2,30.2	7,9.3	10,11
		14,18	11	18	19		
NY3237	PowerPlex® Fusion						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11	13,14	14	17,21	8,12	8,9
		15,18	14	30,31.2	15,16	X,Y	10,11
		20,25	6,12	10,13		7,9.3	10,11
		14,18	11				
NYK2XV	GlobalFiler™						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11	13,14	14	17,21	8,12	8,9
		15,18	14	30,31.2	15,16	X,Y	10,11
		20,25			25.2,30.2	7,9.3	10,11
		14,18	11			2	
P7ZF2D	GlobalFiler™						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11,11	13,14	14,14	17,21	8,12	8,9
		15,18	14,14	30,31.2	15,16	X,Y	10,11
		20,25			25.2,30.2	7,9.3	10,11
		14,18	11			2	
PTXPKE	Identifiler® Plus						
			20,22		16,18	11,12	
	4sp	8,11,12	13,14			8,12	8,9,11
		15,18	14	29,30,31.2		X,Y	10,11
		20,24,25				6,7,9.3	10,11
		14,18					

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

PUL8BE	PowerPlex® Fusion (TrueAllele Casework)					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18	11				
Q3AH3L	GlobalFiler™					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	11			2	
Q7T6MZ	Identifiler® Plus					
		20,22		16,18	11,12	
4sp	11,11	13,14			8,12	8,9
	15,18	14,14	30,31.2		X,Y	10,11
	20,25				7,9.3	10,11
	14,18					
Q8METG	GlobalFiler™					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	11			2	
QFG96T	GlobalFiler™					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	11			2	
QJ37HB	GlobalFiler™					
	14,17.3	[17],20,22	10,14	16,18	11,12	
4sp	11,11	13,14	14,14	17,21	8,12	8,9,[11]
	15,18	14,14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	11			2	
QLM6NT	GlobalFiler™					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	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

QPP9RW	GlobalFiler™						
		14,17.3	[17],20,22	10,14	[14],16,18	[7],11,12	
	4sp	[8],11,[12]	13,14	14,[15]	17,[18],21	8,12	8,9,[11],[13]
		15,18	14	[29],30,31.2	[11],15,16,[17]	X,Y	10,11
		20,[24],25			[18],25.2,[29.2],30.2	[6],7,9.3	10,11
		14,[17],18	11			2	
RABYB7	PowerPlex® Fusion						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11	13,14	14	17,21	8,12	8,9
		15,18	14	30,31.2	15,16	X,Y	10,11
		20,25	6,12	10,13		7,9.3	10,11
		14,18	11				
RAR92L	GlobalFiler™						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11	13,14	14	17,21	8,12	8,9
		15,18	14	30,31.2	15,16	X,Y	10,11
		20,25			25.2,30.2	7,9.3	10,11
		14,18	11			2	
TUERLQ	Identifiler® Plus						
			20,22		16,18	11,12	
	4sp	11	13,14			8,12	8,9
		15,18	14	30,31.2		X,Y	10,11
		20,25				7,9.3	10,11
		14,18					
TUXWDH	GlobalFiler™						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11,11	13,14	14,14	17,21	8,12	8,9
		15,18	14,14	30,31.2	15,16	X,Y	10,11
		20,25			25.2,30.2	7,9.3	10,11
		14,18	11			2	
U6PJNQ	Identifiler® Plus						
			20,22		16,18	11,12	
	4sp	11	13,14			8,12	8,9
		15,18	14	30,31.2		X,Y	10,11
		20,25				7,9.3	10,11
		14,18					
UBFTYN	Identifiler® Plus						
			20,22		16,18	11,12	
	4sp	11	13,14			8,12	8,9
		15,18	14	30,31.2		X,Y	10,11
		20,25				7,9.3	10,11
		14,18					

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

UQPCGT	GlobalFiler™					
	14,16.3,17.3	17,20,22	10,14	14,15,16,18	7,11,12	
4sp	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11			2	
VAWYHR	GlobalFiler™					
	14,16.3,17.3	17,20,22,23	10,14	14,15,16,18	7,11,12	
4sp	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11,13
	12,15,17,18	13,14	29,30,31.2	11,15,16,17	X,Y	7,10,11
	20,24,25			18,25.2,29.2,30.2	6,7,9.3	10,11
	14,17,18	11			2	
VKDJA4	PowerPlex® Fusion					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,(24),25	6,12	10,(11),13		7,9.3	10,11
	14,(17),18	11				
VQ4W4C	GlobalFiler™					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	11			2	
VQJFMA	PowerPlex® Fusion 5C					
	14,17.3	20,22	10,14	15,16,18	7,11,12	
4sp	8,11,12	13,14	14,15,16	17,18,21	8,12	8,9,11
	15,17,18	13,14	29,30,31.2	15,16	X,Y	10,11
	20,24,25	6,9,12	10,11,13,15		7,9.3	10,11
	14,17,18	11				
VUNFYM	Identifiler® Plus					
		20,22		16,18	11,12	
4sp	11	13,14			8,12	8,9
	15,18	14	30,31.2		X,Y	10,11
	20,25				7,9.3	10,11
	14,18					
WB44LM	Identifiler® Plus					
		20,22		16,18	11,12	
4sp	11	13,14			8,12	8,9
	15,18	14	30,31.2		X,Y	10,11
	20,25				7,9.3	10,11
	14,18					

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

X8GGBR	PowerPlex® Fusion					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9,13
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18	11				
X8NGK8	PowerPlex® 21					
	14,17.3	20,22		16,18	11,12	11,12
4sp	11,11	13,14		17,21	8,12	8,9
	15,18	14,14	30,31.2		X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18					
XL3UR8	PowerPlex® Fusion					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11,12	13,14	14	17,18,21	8,12	8,9
	12,15,17,18	14	29,30,31.2	15,16	X,Y	10,11
	20,24,25	6,12	10,13		7,9.3	10,11
	14,18	11				
XMH7F6	GlobalFiler™					
	14,17.3	20,22	10,14	16,18	11,12	N/A
4sp	11,11	13,14	14,14	17,21	8,12	8,9
	15,18	14,14	30,31.2	15,16	X,Y	10,11
	20,25	N/A	N/A	25.2,30.2	7,9.3	10,11
	14,18	11	N/A	N/A	2	
XRCPWG	PowerPlex® Fusion 5C					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11,11	13,14	14,14	17,21	8,12	8,9
	15,18	14,14	30,31.2	15,16	X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18	11				
XUUAEQ	PowerPlex® Fusion					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11	13,14	14	17,21	8,12	8,9
	15,18	14	30,31.2	15,16	X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18	11				
XUW83N	Identifiler® Plus					
		20,22		16,18	11,12	
4sp	11	13,14			8,12	8,9
	15,18	14	30,31.2		X,Y	10,11
	20,25				7,9.3	10,11
	14,18					

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

XYN74G	PowerPlex® Fusion 5C						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11,11	13,14	14,14	17,21	8,12	8,9
		15,18	14,14	30,31.2	15,16	X,Y	10,11
		20,25	6,12	10,13		7,9.3	10,11
		14,18	11				
YB2J74	GlobalFiler™						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11,11	13,14	14,14	17,21	8,12	8,9
		15,18	14,14	30,31.2	15,16	X,Y	10,11
		20,25			25.2,30.2	7,9.3	10,11
		14,18	11			2	
YLFKFH	PowerPlex® ESI-16						
		14,17.3	20,22	10,14	16,18		
	4sp		13,14	14,14	17,21		8,9
		15,18	14,14	30,31.2	15,16	X,Y	
		20,25				7,9.3	
		14,18					
ZA4QL6	Identifiler® Plus (STRmix)						
			20,22		16,18	11,12	
	4sp	11,11	13,14			8,12	8,9
		15,18	14,14	30,31.2		X,Y	10,11
		20,25				7,9.3	10,11
		14,18					
ZCTEAK	Identifiler® Plus						
			20,22		16,18	11,12	
	4sp	11	13,14			8,12	8,9
		15,18	14	30,31.2		X,Y	10,11
		20,25				7,9.3	10,11
		14,18					
ZHXATK	PowerPlex® Fusion 5C, NGM						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11,11	13,14	14,14	17,21	8,12	8,9
		15,18	14,14	30,31.2	15,16	X,Y	10,11
		20,25	6,12	10,13		7,9.3	10,11
		14,18	11				
ZMCCA4	GlobalFiler™						
		14,17.3	20,22	10,14	16,18	11,12	
	4sp	11,11	13,14	14,14	17,21	8,12	8,9
		15,18	14,14	30,31.2	15,16	X,Y	10,11
		20,25			25.2,30.2	7,9.3	10,11
		14,18	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

ZPDNKA	PowerPlex® 16 HS					
				16,18	11,12	
4sp	11,11	13,14			8,12	8,9
	15,18		30,31.2		X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18					
ZR2ZJF	PowerPlex® Fusion 5C					
	14,17.3	20,22	10,14	16,18	11,12	
4sp	11,11	13,14	14,14	17,21	8,12	8,9
	15,18	14,14	30,31.2	15,16	X,Y	10,11
	20,25	6,12	10,13		7,9.3	10,11
	14,18	11				
ZX7W4F	Investigator® 24plex					
	14,17.3	20,22	10,14	16,18	[7],11,12	
4sp	[8],11	13,14	14	17,[18],21	8,12	8,9
	15,18	14	30,31.2	[11],15,16	X,Y	10,11
	20,25			25.2,30.2	7,9.3	10,11
	14,18	11				

# YSTR Amplification Kit(s) & Results

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389 I	DYS389 II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

## Item 1 - YSTR Results

BMQL7Y	Yfiler™								
1		ND	ND	ND	ND	ND	ND	ND	ND
		ND	ND	ND	ND	ND	ND	ND	ND
L43HEP	Yfiler™								
1									
LQVWQP	Yfiler™								
1		NA	NA	NA	NA	NA	NA	NA	NA
		NA	NA	NA	NA	NA	NA	NA	NA
MD6RAZ	Yfiler™								
1									



TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4	
<b>Item 2 - YSTR Results</b>										
22ME94	PowerPlex® Y 23									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14		23	
		11	12	17	18		22	10	12	
2932UT	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10	23	
	42	11		17	18	21	22		12	
2EV7QH	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10	23	
	42	11		17	18	21	22		12	
2XLHDG	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10	23	
	42	11		17	18	21	22		12	
33T7QJ	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10	23	
	42	11	Not Tested	17	18	21	22	Not Tested	12	
38NWWU	PowerPlex® Y PPY23									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14		23	
		11	12	17	18		22	10	12	
39X8NR	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14		23	
							22		12	
3HNMH3	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14		23	
							22		12	
3TQW8Z	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14		23	
							22		12	
4L3MAM	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14		23	
							22		12	
4QEPWJ	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10	23	
	42	11		17	18	21	22		12	
62A26P	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14		23	
							22		12	

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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4	
<b>Item 2 - YSTR Results</b>										
6KPNE6	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22			12
6LGYGD	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22			12
6WZ6ZF	PowerPlex® Y 23									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			23
		11	12	17	18		22	10		12
7262JF	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10		23
	42	11		17	18	21	22			12
73JPK8	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10		23
	42	11		17	18	21	22			12
7DZCU9	PowerPlex® Y 23									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			23
		11	12	17	18		22	10		12
7JRGPX	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22			12
7KHM7N	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10		23
	42	11		17	18	21	22			12
7QAVQH	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10		23
	42	11		17	18	21	22			12
88PGPY	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22			12
9WNFNE	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10		23
	42	11		17	18	21	22			12
A2G2U8	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10		23
	42	11		17	18	21	22			12

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4	
<b>Item 2 - YSTR Results</b>										
AJVDMX	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10	23	
	42	11		17	18	21	22		12	
AVCZWY	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10	23	
	42	11		17	18	21	22		12	
B2WFZW	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10	23	
	42	11		17	18	21	22		12	
B73BJW	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10	23	
	42	11		17	18	21	22		12	
BA7CVA	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22		12	
BDTEXU	PowerPlex® Y 23									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14		23	
		11	12	17	18		22	10	12	
BMQL7Y	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22		12	
BN472U	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22		12	
BN7NBL	PowerPlex® Y 23									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14		23	
		11	12	17	18		22	10	12	
BTY4NY	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22		12	
BV83Y9	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10	23	
	42	11		17	18	21	22		12	
C7HU29	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22		12	

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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 2 - YSTR Results

C8VLR4	Yfiler™								
		14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12
CQMZHA									
		14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12
D68ATY	PowerPlex® Y 23								
		14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		23
		11	12	17	18		22	10	12
DCJQZY	Yfiler™								
		14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12
ERCB78	Yfiler™								
		14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12
EU4E89	Yfiler™ Plus								
	35,39	14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14	10	23
	42	11		17	18	21	22		12
EYA94P	Yfiler™								
		14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12
F6VKGW	Yfiler™								
		14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12
F82AJ7	PowerPlex® Y 23								
		14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		23
		11	12	17	18		22	10	12
F8KWF3	Yfiler™ Plus								
	35,39	14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14	10	23
	42	11		17	18	21	22		12
FDPRY3	Yfiler™ Plus								
	35,39	14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14	10	23
	42	11		17	18	21	22		12
FUD3L6	Yfiler™ Plus								
	35,39	14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14	10	23
	42	11		17	18	21	22		12

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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 2 - YSTR Results

FZ4DXN	Yfiler™	14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12
GB2GZW	PowerPlex® Y 23	14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		23
		11	12	17	18		22	10	12
GBF62N	Yfiler™	14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12
GVL6YA	PowerPlex® Y system	14	14,15	12	29	24	11	14	13
2		14	11	12					
H4W NXZ	Yfiler™	14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12
H8A4CB	Yfiler™ Plus	35,39	14	14,15	12	29	24	11	14
2		14	11	12	19	29	15	14	10
		42	11		17	18	21	22	12
HMqw4N	Yfiler™	14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12
J49DKP	Yfiler™	14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12
JQP3A2	Yfiler™	14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12
K2FEXX	Yfiler™	14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12
KRWCLB	PowerPlex® Y 23	14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		23
		11	12	17	18		22	10	12
KTRQBP	Yfiler™	14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4	
<b>Item 2 - YSTR Results</b>										
KYC2BB	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22			12
L2JJ8L	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22			12
L43HEP	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22			12
LE4AJA	PowerPlex® Y 23									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14		23	
		11	12	17	18		22	10		12
LFYN9M	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22			12
LHMZ8T	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10	23	
	42	11		17	18	21	22			12
LQVWQP	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22			12
LYBDLK	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22			12
M6UZTV	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10	23	
	42	11		17	18	21	22			12
M6Y97P	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22			12
MCV479	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22			12
MD6RAZ	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22			12

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4	
<b>Item 2 - YSTR Results</b>										
MFEAHP	PowerPlex® Y 23									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14		23	
		11	12	17	18		22	10	12	
MFR29K	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10	23	
	42	11		17	18	21	22		12	
N3ZUNP	PowerPlex® Y 23									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14		23	
		11	12	17	18		22	10	12	
N9LPM8	PowerPlex® Y 23									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14		23	
		11	12	17	18		22	10	12	
NYK2XV	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10	23	
	42	11		17	18	21	22		12	
P7ZF2D	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22		12	
PUL8BE	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22		12	
Q8METG	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22		12	
QFG96T	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10	23	
	42	11		17	18	21	22		12	
QGARW2	PowerPlex® Y 23									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14		23	
		11	12	17	18		22	10	12	
QJ37HB	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22		12	
QLM6NT	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10	23	
	42	11		17	18	21	22		12	

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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 2 - YSTR Results

QPP9RW	Yfiler™								
		14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12
RAR92L	Yfiler™ Plus								
	35,39	14	14,15	12	29	24	11	14	13
2		14	11	12	19	29	15	14	10
	42	11		17	18	21	22		12
RKP9FB	Yfiler™								
		14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12
TUERLQ	Yfiler™								
		14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12
TUXWDH	Yfiler™								
		14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12
U6PJNQ	Yfiler™								
		14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12
UBFTYN	Yfiler™								
		14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12
UQPCGT	Yfiler™ Plus								
	35,39	14	14,15	12	29	24	11	14	13
2		14	11	12	19	29	15	14	10
	42	11		17	18	21	22		12
VAWYHR	Yfiler™ Plus								
	35,39	14	14,15	12	29	24	11	14	13
2		14	11	12	19	29	15	14	10
	42	11		17	18	21	22		12
VKDJA4	Yfiler™								
		14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12
VQ4W4C	Yfiler™ Plus								
	35,39	14	14,15	12	29	24	11	14	13
2		14	11	12	19	29	15	14	10
	42	11		17	18	21	22		12
VQJFMA	Yfiler™								
		14	14,15	12	29	24	11	14	13
2		14	11	12	19	15	14		
							22		12



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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4	
<b>Item 2 - YSTR Results</b>										
VUNFYM	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22			12
WB44LM	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22			12
XL3UR8	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22			12
XMH7F6	Yfiler™									
	N/A	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	N/A	15	14	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	22	N/A		12
XUW83N	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22			12
XYN74G	PowerPlex® Y 23									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14		23	
		11	12	17	18		22	10		12
YB2J74	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22			12
ZA4QL6	PowerPlex® Y 23									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14		23	
		11	12	17	18		22	10		12
ZCTEAK	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22			12
ZHXATK	Yfiler™, PowerPlex® Y									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14		23	
		11	12	17	18		22	10		12
ZMCCA4	Yfiler™									
		14	14,15	12	29	24	11	14	13	
2	14	11	12	19		15	14			
							22			12
ZPDNKA	Yfiler™ Plus									
	35,39	14	14,15	12	29	24	11	14	13	
2	14	11	12	19	29	15	14	10	23	
	42	11		17	18	21	22			12

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	YGATAH4

Item 2 - YSTR Results

WebCode	Amplification Kit	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393
ZR2ZJF	PowerPlex® Y 23		14	14,15	12	29	24	11	14	13
2		14	11	12	19		15	14		23
			11	12	17	18		22	10	12
ZV32JC	Yfiler™		14	14,15	12	29	24	11	14	13
2		14	11	12	19		15	14		
								22		12

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389 I	DYS389 II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3 - YSTR Results

2932UT	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
2EV7QH	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
2XLHDG	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
3HNMH3	Yfiler™								
		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
7DZCU9	PowerPlex® Y 23								
	[Redacted]								
	[Redacted]								
3	[Redacted]								
	[Redacted]								
	[Redacted]								
7KHM7N	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	No Results	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR	NR	NR	NR	NR	NR	NR	NR
88PGPY	Yfiler™								
		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
A2G2U8	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
B2WFZW	Yfiler™ Plus								
	no results	no results	no results	no results	no results	no results	no results	no results	no results
	no results	no results	no results	no results	no results	no results	no results	no results	no results
3	no results	no results	no results	no results	no results	no results	no results	no results	no results
	no results	no results	no results	no results	no results	no results	no results	no results	no results
	no results	no results	no results	no results	no results	no results	no results	no results	no results
BMQL7Y	Yfiler™								
			ND	ND	ND	ND	ND	ND	ND
	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND
F8KWF3	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
FDPRY3	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									
	DYF387S1	DYS19	DYS385	DYS389 I	DYS389 II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4	
<b>Item 3 - YSTR Results</b>										
GBF62N	Yfiler™									
		NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR		NR	NR			NR
<hr/>										
GVL6YA	PowerPlex® Y system									
		--	--	--	--	--	--	--	--	--
3	--	--	--							
<hr/>										
H8A4CB	Yfiler™ Plus									
	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
<hr/>										
HMQW4N	Yfiler™									
		NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR		NR	NR			NR
							NR			NR
<hr/>										
J49DKP	Yfiler™									
3										
<hr/>										
KTRQBP	Yfiler™									
3										
<hr/>										
L43HEP	Yfiler™									
3										
<hr/>										
LQVWQP	Yfiler™									
		NA	NA	NA	NA	NA	NA	NA	NA	NA
3	NA	NA	NA	NA		NA	NA			NA
							NA			NA
<hr/>										
LYBDLK	Yfiler™									
		NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR		NR	NR			NR
							NR			NR
<hr/>										
M6UZTV	Yfiler™ Plus									
	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
<hr/>										
MFR29K	Yfiler™ Plus									
	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
<hr/>										
VKDJA4	Yfiler™									
		NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR		NR	NR			NR
							NR			NR

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389 I	DYS389 II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 3 - YSTR Results

VQJFMA	Yfiler™								
3		NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
							NR		NR
XL3UR8	Yfiler™								
3		NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR	NR	NR
							NR		NR
XYN74G	PowerPlex® Y 23								
3		Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
		Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
		Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
ZR2ZJF	PowerPlex® Y 23								
3		---	---	---	---	---	---	---	---
		---	---	---	---	---	---	---	---
		---	---	---	---	---	---	---	---

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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

## Item 4 - YSTR Results

38NWWU	PowerPlex® Y PPY23	14	11,14	13	29	21	11	13	13
4	15	12	12	19	18	18	23	10	12
		13	13	18	19				
6WZ6ZF	PowerPlex® Y 23	14	11,14	13	29	21	11	13	13
4	15	12	12	19	18	18	23	10	12
		13	13	18	19				
7JRGPX	Yfiler™	14	11,14	13	29	21	11	13	13
4	15	12	12	19	18	18	23		12
CQMZHA	Yfiler™	14	11,14	13	29	21	11	13	13
4	15	12	12	19	18	18	23		12
EYA94P	Yfiler™	14	11,14	13	29	21	11	13	13
4	15	12	12	19	18	18	23		12
FZ4DXN	Yfiler™	14	11,14	13	29	21	11	13	13
4	15	12	12	19	18	18	23		12
MFEAHP	PowerPlex® Y 23	14	11,14	13	29	21	11	13	13
4	15	12	12	19	18	18	23	10	12
		13	13	18	19				
QGARW2	PowerPlex® Y 23	14	11,14	13	29	21	11	13	13
4	15	12	12	19	18	18	23	10	12
		13	13	18	19				
RKP9FB	Yfiler™	14	11,14	13	29	21	11	13	13
4	15	12	12	19	18	18	23		12
ZV32JC	Yfiler™	14	11,14	13	29	21	11	13	13
4	15	12	12	19	18	18	23		12

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389 I	DYS389 II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4e - YSTR Results

22ME94	PowerPlex® Y 23								
4e	[Redacted]								
2932UT	Yfiler™ Plus								
	35,35	14	11,14	13	29	21	11	13	13
4e	15	12	12	19	30	18	18	10	23
	37	13		18	19	22	23		12
2E77QH	Yfiler™ Plus								
	35	14	11,14	13	29	21	11	13	13
4e	15	12	12	19	30	18	18	10	23
	37	13		18	19	22	23		12
2XLHDG	Yfiler™ Plus								
	35,35	14	11,14	13	29	21	11	13	13
4e	15	12	12	19	30	18	18	10	23
	37	13		18	19	22	23		12
3377QJ	Yfiler™ Plus								
	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested
4e	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested
	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested
39X8NR	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e	15	12	12	19		18			
							23		12
3HNMH3	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e	15	12	12	19		18			
							23		12
3TQW8Z	Yfiler™								
4e	[Redacted]								
4L3MAM	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e	15	12	12	19		18			
							23		12
4QEWPJ	Yfiler™ Plus								
	35	14	11,14	13	29	21	11	13	13
4e	15	12	12	19	30	18	18	10	23
	37	13		18	19	22	23		12
62A26P	Yfiler™								
4e	[Redacted]								
6KPNE6	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e	15	12	12	19		18			
							23		12

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

## Item 4e - YSTR Results

6LGYGD	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e		15	12	12	19	18	18		
							23		12
7262JF	Yfiler™ Plus								
4e									
73JPK8	Yfiler™ Plus								
		35	14	at least 11	13	29	21	11	13
4e		15	12	12	19	30	18	18	10
		37	13		18	19	22	23	12
7DZCU9	PowerPlex® Y 23								
		14	11,14	13	29	21	11	13	13
4e		15	12	12	19	18	18		23
		13	13	18	19		23	10	12
7KHM7N	Yfiler™ Plus								
		35,35	14	11,14	13	29	21	11	13
4e		15	12	12	19	30	18	18	10
		37	13		18	19	22	23	12
7QAVQH	Yfiler™ Plus								
		35	14	11,14	13	29	21	11	13
4e		15	12	12	19	30	18	18	10
		37	13		18	19	22	23	12
88PGPY	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e		15	12	12	19	18	18		
							23		12
9WNFNE	Yfiler™ Plus								
		35	14	11,14	13	29	[20],21	11	13
4e		15	12	12	19	29,30	18	18	10
		37	13		18	19	22	23	[22],23
									12
A2G2U8	Yfiler™ Plus								
		35,35	14	11,14	13	29	21	11	13
4e		15	12	12	19	30	18	18	10
		37	13		18	19	22	23	12
AJVDMX	Yfiler™ Plus								
		35	14	11,14	13	29	21	11	13
4e		15	12	12	19	30	18	18	10
		37	13		18	19	22	23	12
AVCZWY	Yfiler™ Plus								
		35	14	11,14	13	29	21	11	13
4e		15	12	12	19	30	18	18	10
		37	13		18	19	22	23	12
B2WFZW	Yfiler™ Plus								
		35	14	11,14	13	29	21	11	13
4e		15	12	12	19	30	18	18	10
		37	13		18	19	22	23	12



TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4	
<b>Item 4e - YSTR Results</b>										
B73BJW	Yfiler™ Plus									
	[35]	14	11,14	13	29	No results	11	No results	No results	
4e	15	No results	12	19	30	18	18	10	23	
	No results	No results		18	19	22	23		No results	
BA7CVA	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4e	15	12	12	19		18	18			
							23			12
BDTEXU	PowerPlex® Y 23									
4e										
BMQL7Y	Yfiler™									
		ND	ND	ND	ND	ND	ND	ND	ND	ND
4e	ND	ND	ND	ND		ND	ND			
							ND			ND
BN472U	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4e	15	12	12	19		18	18			
							23			12
BN7NBL	PowerPlex® Y 23									
		14	11,14	13	29	21	11	13	13	
4e	15	12	12	19		18	18		23	
		13	13	18	19		23	10	12	
BTY4NY	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4e	15	12	12	19		18	18			
							23			12
BV83Y9	Yfiler™ Plus									
	35	14	11,14	13	29	21	11	13	13	
4e	15	12	12	19	30	18	18	10	23	
	37	13		18	19	22	23			12
C7HU29	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4e	15	12	12	19		18	18			
							23			12
C8VLR4	Yfiler™									
4e										
D68ATY	PowerPlex® Y 23									
		14	11,14	13	29	21	11	13	13	
4e	15	12	12	19		18	18		23	
		13	13	18	19		23	10	12	
DCJQZY	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4e	15	12	12	19		18	18			
							23			12

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4e - YSTR Results

ERCB78	Yfiler™								
		14	14	13			11	13	13
4e		15	12			18	18		
							23		12
EU4E89	Yfiler™ Plus								
	35					21	11		13
4e		12						10	
		13		18			23		
F6VKGW	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e		15	12	12	19	18	18		
							23		12
F82AJ7	PowerPlex® Y 23								
4e									
F8KWF3	Yfiler™ Plus								
	35,35	14	11,14	13	29	21	11	13	13
4e		15	12	12	19	30	18	18	10
		37	13		18	19	22	23	
									12
FDPRY3	Yfiler™ Plus								
	35	14	11,14	13	29	21	11	13	13
4e		15	12	12	19	30	18	18	10
		37	13		18	19	22	23	
									12
FUD3L6	Yfiler™ Plus								
	35	14	11,14	13	29	21	11	13	13
4e		15	12	12	19	30	18	18	10
		37	13		18	19	22	23	
									12
GB2GZW	PowerPlex® Y 23								
4e									
					19				
GBF62N	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e		15	12	12	19	18	18		
							23		12
GVL6YA	PowerPlex® Y								
4e									
H4W NXZ	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e		15	12	12	19	18	18		
							23		12
H8A4CB	Yfiler™ Plus								
	35	14	11,14	13	29	21	11	13	13
4e		15	12	12	19	30	18	18	10
		37	13		18	19	22	23	
									12

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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4e - YSTR Results

HMQW4N	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e		15	12	12	19	18	18		
							23		12
J49DKP	Yfiler™								
		14	11,14	13	29	21	11	13	
4e		15	12	12	19	18	18		
							23		12
JQP3A2	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e		15	12	12	19	18	18		
							23		12
K2FEFX	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e		15	12	12	19	18	18		
							23		12
KTRQBP	Yfiler™								
		14		13	29	21	11	13	
4e		15	12	12		18	18		
KYC2BB	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e		15	12	12	19	18	18		
							23		12
L2JJ8L	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e		15	12	12	19	18	18		
							23		12
L43HEP	Yfiler™								
		14	0,0	13	29	21	0	0	13
4e		15	0	0	19	18	0		
							23		12
LFYN9M	Yfiler™								
4e									
LHMZ8T	Yfiler™ Plus								
		35	14	11,14	13	29	21	11	13
4e		15	12	12	19	30	18	18	10
		37	13		18	19	22	23	12
LQVWQP	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e		15	12	12	19	18	18		
							23		12
LYBDLK	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e		15	12	12	19	18	18		
							23		12

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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4e - YSTR Results

M6UZTV	Yfiler™ Plus								
	35,35	14	11,14	13	29	21	11	13	13
4e	15	12	12	19	30	18	18	10	23
	37	13		18	19	22	23		12
M6Y97P	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e	15	12	12	19		18	18		12
							23		
MCV479	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e	15	12	12	19		18	18		12
							23		
MD6RAZ	Yfiler™								
			11	13	29		11	13	13
4e	15	12		19		18	18		12
							23		
MFR29K	Yfiler™ Plus								
	35	14	11,14	13	29	21	11	13	13
4e	15	12	12	19	30	18	18	10	23
	37	13		18	19	22	23		12
N3ZUNP	PowerPlex® Y 23								
							11		
4e	15								
NYK2XV	Yfiler™ Plus								
	35	14	11,14	13	29	21	No Result	No Result	13
4e	15	12	12	No Result	30	18	18	10	23
	37	No Result		18	19	22	23		12
P7ZF2D	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e	15	12	12	19		18	18		12
							23		
PUL8BE	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e	15	12	12	19		18	18		12
							23		
Q8METG	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e	15	12	12	19		18	18		12
							23		
QFG96T	Yfiler™ Plus								
	35	14	11,14	13	29	21	11	13	13
4e	15	12	12	19	30	18	18	10	23
	37	13		18	19	22	23		12
QJ37HB	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e	15	12	12	19		18	18		12
							23		

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

## Item 4e - YSTR Results

QLM6NT	Yfiler™ Plus								
	35	14	11,14	13	29	21	11	13	13
4e	15	12	12	19	30	18	18	10	23
	37	13		18	19	22	23		12
QPP9RW	Yfiler™								
4e									
RAR92L	Yfiler™ Plus								
	35	14	11,14	13	29	21	11	13	13
4e	15	12	12	19	30	18	18	10	23
	37	13		18	19	22	23		12
TUERLQ	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e	15	12	12	19		18	18		12
							23		
TUXWDH	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e	15	12	12	19		18	18		12
							NA		
U6PJNQ	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e	15	12	12	19		18	18		12
							23		
UBFTYN	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e	15	12	12	19		18	18		12
							23		
UQPCGT	Yfiler™ Plus								
	35	14	11,14	13	29	21	11	13	13
4e	15	12	12	19	30	18	18	10	23
	37	13		18	19	22	23		12
VAWYHR	Yfiler™ Plus								
	35	14	11,14	13	29	21	11	13	13
4e	15	12	12	19	30	18	18	10	23
	37	13		18	19	22	23		12
VKDJA4	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e	15	12	12	19		18	18		12
							23		
VQ4W4C	Yfiler™ Plus								
	35	14	11,14	13	29	21	11	13	13
4e	15	12	12	19	30	18	18	10	23
	37	13		18	19	22	23		12
VQJFMA	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e	15	12	12	19		18	18		12
							23		

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4e - YSTR Results

VUNFYM	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e		15	12	12	19	18	18		
							23		12
WB44LM	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e		15	12	12	19	18	18		
							23		12
XL3UR8	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e		15	12	12	19	18	18		
							23		12
XMH7F6	Yfiler™								
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4e		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
XUW83N	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e		15	12	12	19	18	18		
							23		12
XYN74G	PowerPlex® Y 23								
		14	11,14	13	29	21	11	13	13
4e		15	12	12	19	18	18		23
		13	13	18	19		23	10	12
YB2J74	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e		15	12	12	19	18	18		
							23		12
ZA4QL6	PowerPlex® Y 23								
4e									
ZCTEAK	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e		15	12	12	19	18	18		
							23		12
ZHXATK	Yfiler™, PowerPlex® Y								
		-	-	-	-	-	-	-	-
4e		-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
ZMCCA4	Yfiler™								
		14	11,14	13	29	21	11	13	13
4e		15	12	12	19	18	18		
							NA		12
ZPDNKA	Yfiler™ Plus								
4e									

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4e - YSTR Results

ZR2ZJF	PowerPlex® Y 23	14	11,14	13	29	21	11	13	13
4e	15	12	12	19		18	18		23
		13	13	18	19		23	10	12

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 4sp - YSTR Results</b>									
22ME94	PowerPlex® Y 23								
		14	11,14	13	29	21	11	13	13
4sp	15	12	12	19		18	18		23
		13	13	18	19		23	10	12
2932UT	Yfiler™ Plus								
	35,35	14	11,14	13	29	21	11	13	13
4sp	15	12	12	19	30	18	18	10	23
	37	13		18	19	22	23		12
2EV7QH	Yfiler™ Plus								
	35	14	11,14	13	29	21	11	13	13
4sp	15	12	12	19	30	18	18	10	23
	37	13		18	19	22	23		12
2XLHDG	Yfiler™ Plus								
	35,35	14	11,14	13	29	21	11	13	13
4sp	15	12	12	19	30	18	18	10	23
	37	13		18	19	22	23		12
33T7QJ	Yfiler™ Plus								
	35	14	11,14	13	29	21	11	13	13
4sp	15	12	12	19	30	18	18	10	23
	37	13	Not Tested	18	19	22	23	Not Tested	12
39X8NR	Yfiler™								
		14	11,14	13	29	21	11	13	13
4sp	15	12	12	19		18	18		
							23		12
3HNMH3	Yfiler™								
		14	11,14	13	29	21	11	13	13
4sp	15	12	12	19		18	18		
							23		12
3TQW8Z	Yfiler™								
		14	11,14	13	29	21	11	13	13
4sp	15	12	12	19		18	18		
							23		12
4L3MAM	Yfiler™								
		14	11,14	13	29	21	11	13	13
4sp	15	12	12	19		18	18		
							23		12
4QEPWJ	Yfiler™ Plus								
	35	14	11,14	13	29	21	11	13	13
4sp	15	12	12	19	30	18	18	10	23
	37	13		18	19	22	23		12
62A26P	Yfiler™								
		14	11,14	13	29	21	11	13	13
4sp	15	12	12	19		18	18		
							23		12
6KPNE6	Yfiler™								
		14	11,14	13	29	21	11	13	13
4sp	15	12	12	19		18	18		
							23		12



TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4sp - YSTR Results

6LGYGD	Yfiler™								
		14	11,14	13	29	21	11	13	13
	4sp	15	12	12	19		18		12
							23		
7262JF	Yfiler™ Plus								
		14	11,14	13	29	21	11	13	13
	4sp	15	12	12	19	30	18	18	23
		37	13	18	19	22	23		12
73JPK8	Yfiler™ Plus								
		14	11,14	13	29	21	11	13	13
	4sp	15	12	12	19	30	18	18	23
		37	13	18	19	22	23		12
7DZCU9	PowerPlex® Y 23								
		14	11,14	13	29	21	11	13	13
	4sp	15	12	12	19		18	18	23
		13	13	18	19		23	10	12
7KHM7N	Yfiler™ Plus								
	35,35	14	11,14	13	29	21	11	13	13
	4sp	15	12	12	19	30	18	18	23
		37	13	18	19	22	23		12
7QAVQH	Yfiler™ Plus								
		14	11,14	13	29	21	11	13	13
	4sp	15	12	12	19	30	18	18	23
		37	13	18	19	22	23		12
88PGPY	Yfiler™								
		14	11,14	13	29	21	11	13	13
	4sp	15	12	12	19		18	18	
							23		12
9WNFNE	Yfiler™ Plus								
		14	11,14	13	29	21	11	13	13
	4sp	15	12	12	19	30	18	18	23
		37	13	18	19	22	23		12
A2G2U8	Yfiler™ Plus								
	35,35	14	11,14	13	29	21	11	13	13
	4sp	15	12	12	19	30	18	18	23
		37	13	18	19	22	23		12
AJVDMX	Yfiler™ Plus								
		14	11,14	13	29	21	11	13	13
	4sp	15	12	12	19	30	18	18	23
		37	13	18	19	22	23		12
AVCZWY	Yfiler™ Plus								
		14	11,14	13	29	21	11	13	13
	4sp	15	12	12	19	30	18	18	23
		37	13	18	19	22	23		12
B2WFZW	Yfiler™ Plus								
		14	11,14	13	29	21	11	13	13
	4sp	15	12	12	19	30	18	18	23
		37	13	18	19	22	23		12

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389 I	DYS389 II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4	
<b>Item 4sp - YSTR Results</b>										
B73BJW	Yfiler™ Plus									
	35	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	30	18	18	10	23	
	37	13		18	19	22	23		12	
BA7CVA	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23		12	
BDTEXU	PowerPlex® Y 23									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18		23	
		13	13	18	19		23	10	12	
BMQL7Y	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23		12	
BN472U	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23		12	
BN7NBL	PowerPlex® Y 23									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18		23	
		13	13	18	19		23	10	12	
BTY4NY	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23		12	
BV83Y9	Yfiler™ Plus									
	35	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	30	18	18	10	23	
	37	13		18	19	22	23		12	
C7HU29	Yfiler™									
4sp										
C8VLR4	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23		12	
D68ATY	PowerPlex® Y 23									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18		23	
		13	13	18	19		23	10	12	
DCJQZY	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23		12	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4	
<b>Item 4sp - YSTR Results</b>										
ERCB78	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23			12
EU4E89	Yfiler™ Plus									
	35	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	30	18	18	10	23	
	37	13		18	19	22	23			12
F6VKGW	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23			12
F82AJ7	PowerPlex® Y 23									
		14	11,14	13	29	21	11	13	13	
4sp	15		12	19			18		23	
		13	13	18	19		23	10		12
F8KWF3	Yfiler™ Plus									
	35,35	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	30	18	18	10	23	
	37	13		18	19	22	23			12
FDPRY3	Yfiler™ Plus									
	35	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	30	18	18	10	23	
	37	13		18	19	22	23			12
FUD3L6	Yfiler™ Plus									
4sp										
GB2GZW	PowerPlex® Y 23									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18		23	
		13	13	18	19		23	10		12
GBF62N	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23			12
GVL6YA	PowerPlex® Y									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12							
H4W NXZ	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23			12
H8A4CB	Yfiler™ Plus									
	35	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	30	18	18	10	23	
	37	13		18	19	22	23			12

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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4
<b>Item 4sp - YSTR Results</b>									
HMqw4N	Yfiler™								
	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	18	18	23	12	
J49DKP	Yfiler™								
	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	18	18	23	12	
JQP3A2	Yfiler™								
	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	18	18	23	12	
K2FEFX	Yfiler™								
	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	18	18	23	12	
KRWCLB	PowerPlex® Y 23								
	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	18	18	23	23	
	13	13	18	19		23	10	12	
KTRQBP	Yfiler™								
	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	18	18	23	12	
KYC2BB	Yfiler™								
	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	18	18	23	12	
L2JJ8L	Yfiler™								
	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	18	18	23	12	
L43HEP	Yfiler™								
	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	18	18	23	12	
LE4AJA	PowerPlex® Y 23								
	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	18	18	23	23	
	13	13	18	19		23	10	12	
LFYN9M	Yfiler™								
	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	18	18	23	12	
LHMZ8T	Yfiler™ Plus								
	35	14	11,14	13	29	21	11	13	13
4sp	15	12	12	19	30	18	18	10	23
	37	13		18	19	22	23		12

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	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4	
<b>Item 4sp - YSTR Results</b>										
LQVWQP	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23			12
LYBDLK	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23			12
M6UZTV	Yfiler™ Plus									
	35,35	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	30	18	18	10	23	
	37	13		18	19	22	23			12
M6Y97P	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23			12
MCV479	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23			12
MD6RAZ	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23			12
MFR29K	Yfiler™ Plus									
	35	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	30	18	18	10	23	
	37	13		18	19	22	23			12
N3ZUNP	PowerPlex® Y 23									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			23
		13	13	18	19		23	10		12
N9LPM8	PowerPlex® Y 23									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			23
		13	13	18	19		23	10		12
NYK2XV	Yfiler™ Plus									
	35	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	30	18	18	10	23	
	37	13		18	19	22	23			12
P7ZF2D	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23			12
PUL8BE	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23			12

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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4sp - YSTR Results

Q8METG	Yfiler™	14	11,14	13	29	21	11	13	13
4sp		15	12	12	19	18	18		
							23		12
QFG96T	Yfiler™ Plus	35	14	11,14	13	29	21	11	13
4sp		15	12	12	19	30	18	18	10
		37	13		18	19	22	23	12
QJ37HB	Yfiler™	14	11,14	13	29	21	11	13	13
4sp		15	12	12	19	18	18		
							23		12
QLM6NT	Yfiler™ Plus	35	14	11,14	13	29	21	11	13
4sp		15	12	12	19	30	18	18	10
		37	13		18	19	22	23	12
QPP9RW	Yfiler™	14	11,14	13	29	21	11	13	13
4sp		15	12	12	19	18	18		
							23		12
RAR92L	Yfiler™ Plus	35	14	11,14	13	29	21	11	13
4sp		15	12	12	19	30	18	18	10
		37	13		18	19	22	23	12
TUERLQ	Yfiler™	14	11,14	13	29	21	11	13	13
4sp		15	12	12	19	18	18		
							23		12
TUXWDH	Yfiler™	14	11,14	13	29	21	11	13	13
4sp		15	12	12	19	18	18		
							23		12
U6PJNQ	Yfiler™	14	11,14	13	29	21	11	13	13
4sp		15	12	12	19	18	18		
							23		12
UBFTYN	Yfiler™	14	11,14	13	29	21	11	13	13
4sp		15	12	12	19	18	18		
							23		12
UQPCGT	Yfiler™ Plus	35	14	11,14	13	29	21	11	13
4sp		15	12	12	19	30	18	18	10
		37	13		18	19	22	23	12
VAWYHR	Yfiler™ Plus	35	14	11,14	13	29	21	11	13
4sp		15	12	12	19	30	18	18	10
		37	13		18	19	22	23	12

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389_I	DYS389_II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4	
<b>Item 4sp - YSTR Results</b>										
VKDJ4A	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23			12
VQ4W4C	Yfiler™ Plus									
	35	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	30	18	18	10	23	
	37	13		18	19	22	23			12
VQJFMA	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23			12
VUNFYM	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23			12
WB44LM	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23			12
XL3UR8	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23			12
XMH7F6	Yfiler™									
	N/A	14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19	N/A	18	18	N/A	N/A	
	N/A	N/A	N/A	N/A	N/A	N/A	23	N/A		12
XUW83N	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23			12
XYN74G	PowerPlex® Y 23									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18		23	
		13	13	18	19		23	10		12
YB2J74	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23			12
ZA4QL6	PowerPlex® Y 23									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18		23	
		13	13	18	19		23	10		12
ZCTEAK	Yfiler™									
		14	11,14	13	29	21	11	13	13	
4sp	15	12	12	19		18	18			
							23			12

TABLE 2

WebCode	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389 I	DYS389 II	DYS390	DYS391	DYS392	DYS393
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4

Item 4sp - YSTR Results

ZHXATK	Yfiler™, PowerPlex® Y								
		14	11,14	13	29	21	11	13	13
4sp	15	12	12	19		18	18		23
		13	13	18	19		23	10	12
ZMCCA4	Yfiler™								
		14	11,14	13	29	21	11	13	13
4sp	15	12	12	19		18	18		23
							23		12
ZPDNKA	Yfiler™ Plus								
	35	14	11,14	13	29	21	11	13	13
4sp	15	12	12	19	30	18	18	10	23
	37	13		18	19	22	23		12
ZR2ZJF	PowerPlex® Y 23								
		14	11,14	13	29	21	11	13	13
4sp	15	12	12	19		18	18		23
		13	13	18	19		23	10	12



## 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
-------	---------	--------	--------	--------	---------	----------	--------	---------	----------

No additional DNA results were reported for release.

# DNA Interpretations

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

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
22ME94	Yes	Yes	No	No	7262JF	Yes	Yes	No	No
2932UT	Yes	Yes	No	No	73JPK8	Yes	Yes	No	No
29HLEP	Yes	Yes	No	No	7DZCU9	Yes	Yes	No	No
2EV7QH	Yes	Yes	No	No	7JRGPX	Yes	Yes	No	No
2VHK4A	Yes	Yes	No	No	7KHM7N	Yes	Yes	No	No
2XLHDG	Yes	Yes	No	No	7LXEAL	Yes	No	No	No
33T7QJ	Yes	Yes	No	No	7QAVQH	Yes	Yes	No	No
38NWWU	Yes	Yes	No	No	7X6V3P	Yes	Yes	No	No
39X8NR	Yes	Yes	No	No	84TYBJ	Yes	Yes	No	No
3BN73P	Yes	Yes	No	No	88PGPY	Yes	Yes	No	No
3HNMH3	Yes	Yes	No	No	9P6AR8	Yes	Yes	No	No
3TQW8Z	Yes	Yes	No	No	9WNFNE	Yes	Yes	No	No
3UZ4AT	Yes	Yes	No	No	A2G2U8	Yes	Yes	No	No
3VBUCH	Yes	Yes	No	No	AJVDMX	Yes	Yes	No	No
43BPW2	Yes	Yes	No	No	AVCZWY	Yes	Yes	No	No
4K7AMU	Yes	Yes	No	No	B2WFZW	Yes	Yes	No	No
4L3MAM	Yes	Yes	No	No	B73BJW	Yes	Yes	No	No
4QEPWJ	Yes	Yes	No	No	BA7CVA	Yes	Yes	No	No
62A26P	Yes	Yes	No	No	BDTEXU	Yes	Yes	No	No
6FRJQL	Yes	Yes	No	No	BMQL7Y	Yes	Yes	No	No
6KPNE6	Yes	Yes	No	No	BN472U	Yes	Yes	No	No
6LGYGD	Yes	Yes	No	No	BN7NBL	Yes	Yes	No	No
6WZ6ZF	Yes	Yes	No	No	BPEX64	Yes	Yes	No	No
6ZWUGM	Yes	Yes	No	No	BTY4NY	Yes	Yes	No	No

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
BV83Y9	Yes	Yes	No	No	GFF6ME	Yes	Yes	Yes	No
C7HU29	Yes	Yes	No	No	GVL6YA	Yes	Yes	No	No
C8VLR4	Yes	Yes	No	No	GWXC9B	Yes	Yes	No	No
CD2M4E	Yes	No	No	No	GXBW8D	Yes	Yes	No	No
CN2T6K	Yes	Yes	No	No	H4WNXZ	Yes	Yes	No	No
CQMZHA	Yes	Yes	No	No	H8A4CB	Yes	Yes	No	No
CQPB9R	Yes	Yes	No	No	HMQW4N	Yes	Yes	No	No
CY6BVB	Yes	Yes	No	No	HZAJAF	Yes	Yes	No	No
D68ATY	Yes	Yes	No	No	J47ME8	Yes	Yes	No	No
DCJQZY	Yes	Yes	No	No	J49DKP	Yes	Yes	No	No
DHAZ9B	Yes	Yes	No	No	JQP3A2	Yes	Yes	No	No
ECKV2T	Yes	Yes	No	No	K2FEXX	Yes	Yes	No	No
EMFWRB	Yes	Yes	No	No	K4ACH6	Yes	Yes	No	No
ERCB78	Yes	Yes	No	No	KH9GMV	Yes	Yes	No	No
EU4E89	Yes	Yes	No	No	KRWCLB	Yes	Yes	No	No
EYA94P	Yes	Yes	No	No	KTRQBP	Yes	Yes	No	No
EZPMHQ	Yes	Yes	No	No	KVR264	Yes	Yes	No	No
F6VKGW	Yes	Yes	No	No	KYC2BB	Yes	Yes	No	No
F82AJ7	Yes	Yes	No	No	L2JJ8L	Yes	Yes	No	No
F8KWF3	Yes	Yes	No	No	L3UZ8Z	Yes	Yes	No	No
FD9GJH	Yes	Yes	No	No	L43HEP	Yes	Yes	No	No
FDPY3	Yes	Yes	No	No	L44HC4	Yes	Yes	No	No
FUD3L6	Yes	Yes	No	No	LE4AJA	Yes	Yes	No	No
FZ4DXN	Yes	Yes	No	No	LFYN9M	Yes	Yes	No	No
GB2GZW	Yes	Inc	No	No	LHMZ8T	Yes	Yes	No	No
GBF62N	Yes	Yes	No	No	LQVWQP	Yes	Yes	No	No

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
LYBDLK	Yes	Yes	No	No	TUERLQ	Yes	Yes	No	No
M6UZTV	Yes	Yes	No	No	TUXWDH	Yes	Yes	No	No
M6Y97P	Yes	Yes	No	No	U6PJNQ	Yes	Yes	No	No
MCV479	Yes	Yes	No	No	UBFTYN	Yes	Yes	No	No
MD6RAZ	Yes	Yes	No	No	UQPCGT	Yes	Yes	No	No
MFEAHP	Yes	Inc	No	No	VAWYHR	Yes	Yes	No	No
MFR29K	Yes	Yes	No	No	VKDJA	Yes	Yes	No	No
N3ZUNP	Yes	Inc	No	No	VQ4W4C	Yes	Yes	No	No
N9LPM8	Yes	Yes	No	No	VQJFMA	Yes	Yes	No	No
NMRTZE	Yes	Yes	No	No	VUNFYM	Yes	Yes	No	No
NY3237	Yes	Yes	No	No	WB44LM	Yes	Yes	No	No
NYK2XV	Yes	Yes	No	No	X8GGBR	Yes	Yes	No	No
P7ZF2D	Yes	Yes	No	No	X8GGDC	Yes	No	No	No
PTXPKE	Yes	Yes	No	No	X8NGK8	Yes	Yes	No	No
PUL8BE	Yes	Yes	No	No	XL3UR8	Yes	Yes	No	No
Q3AH3L	Yes	Yes	No	No	XMH7F6	Yes	Yes	No	No
Q7T6MZ	Yes	Inc	No	No	XRCPWG	Yes	Yes	No	No
Q8METG	Yes	Yes	No	No	XUUAEQ	Yes	Yes	No	No
QFG96T	Yes	Yes	No	No	XUW83N	Yes	Yes	No	No
QGARW2	Yes	Yes	No	No	XYN74G	Yes	Yes	No	No
QJ37HB	Yes	Yes	No	No	YB2J74	Yes	Yes	No	No
QLM6NT	Yes	Yes	No	No	YLFKFH	Yes	Yes	No	No
QPP9RW	Yes	Inc	No	No	ZA4QL6	Yes	Yes	No	No
RABYB7	Yes	Yes	No	No	ZCTEAK	Yes	Yes	No	No
RAR92L	Yes	Yes	No	No	ZHXATK	Yes	Yes	No	No
RKP9FB	Yes	Yes	No	No	ZMCCA4	Yes	Yes	No	No

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
ZPDNKA	Yes	Yes	No	No					
ZR2ZJF	Yes	Yes	No	No					
ZV32JC	Yes	Yes	No	No					
ZX7W4F	Yes	Yes	No	No					

<b>DNA Interpretation</b>					
<b>Response Summary</b>			<b>Participants reporting DNA results: 156</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>156</b>	<b>148</b>	<b>1</b>	<b>0</b>
No		<b>0</b>	<b>3</b>	<b>155</b>	<b>156</b>
Inc		<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>
No Interpretation		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
No Response		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Participants analyzing DNA for database purposes only: 0

# Additional Comments

## TABLE 5

WebCode	Additional Comments
2932UT	NR= No Results
2EV7QH	NR = No Results
2XLHDG	Item 1 not analyzed for Y-STR. NR=No results.
39X8NR	Y-STR analysis was not performed on items 1 or 3 because no male DNA was detected using Quantifiler Trio. Weak alleles are enclosed with brackets [ ].
3HNMH3	NR = No Results
3TQW8Z	"[ ] - indicates minor allele/s and alleles between analytical and stochastic thresholds". Item #2: DYS393 failed to amp with Yfiler. Item #4: The epithelial fraction was not amplified with Yfiler.
43BPW2	A sample from item 4 initially underwent a differential extraction. No DNA was obtained from the epithelial fraction so another sample was submitted for a normal (non-differential) extraction which is why there are two lots of results for item 4.
62A26P	Y-STR analysis was not performed on items 1 or 3 because no male DNA was detected using Quantifiler Trio.
6KPNE6	"[ ] - indicates minor allele/s and alleles between analytical and stochastic thresholds".
7JRGPX	1. Item 1 and Item 2, Item 3 and Item 4 were extracted using Chelex Extraction Method. 2. Then it was quantified using Quantifiler Human DNA Quantification Kit and carried out by 7500 Real Time PCR. 3. Amplification was done using AmpFLSTR Identifiler Plus Kit. 4. Item 2 and Item 4 were amplified using Yfiler Kit in the 9700 Thermal Cycler. 5. Electrophoresis process were carried out by Genetic Analyzer 3500xl for Item 1 to Item 4 and analyzed with GeneMapper ID-X Software. 6. Reagent blank, positive control and negative control were carried out along with the analysis and all gave the intended results.
88PGPY	NR = No Results.
A2G2U8	NR = no results
AJVDMX	NR= No Results
AVCZWY	NR = No Results
B73BJW	( ) = Minor component. [ ] = Allele below laboratory's stochastic threshold of 800 rfu for that locus.
BTY4NY	[ ] - indicates minor allele/s and alleles between analytical and stochastic thresholds.
BV83Y9	DYS391 in samples 2 and 4 were concordant in both GF and YFP.
CD2M4E	Note that on Item 4 we have mixture of blood (B) and full profile of post coital which excludes suspect but can be almost fully be read in the mixture expect in D18S51.
CQPB9R	ND = No DNA detected.
DCJQZY	Item 1, Item 2 and Item 3 were extracted by using organic extraction. Item 4 was extracted by using organic extraction for differential extraction. Extracted DNA samples were amplified using Amplified Biosystem AmpFLSTR Identifiler Plus (STR) and Yfiler (STR) kits. Separation and detection of amplified products were performed using Applied Biosystems 3500xL Genetic Analyzer and analysis was carried out by GeneMapper ID-X Software v1.5
ECKV2T	Recommend accurate description of testing done for item 4 to more closely mimic what would be done in casework. In this test, our lab would have called item 4 "blood and semen stain" or blood and presumptive semen stain," not "blood stain."
EU4E89	Obtained low quant values on both sperm and non-sperm fractions after extraction. I developed full interpretable profiles from the sperm fraction but I did not develop an interpretable STR profile from the non-sperm fraction.
EYA94P	1. Item 1, Item 2, Item 3 and Item 4 were extracted using Chelex method. Then, it was quantified using Quantifiler Human DNA quantitation kit and carried out on 7500 Real Time PCR. Amplification done

TABLE 5

WebCode	Additional Comments
	using AmpFISTR Identifiler Plus kit. 2. Item 2 and Item 4 were amplified using Yfiler kit in the 9700 Thermal Cycler. 3. Electrophoresis process were carried out using Genetic Analyzer 3130xL and analyze using GeneMapper ID Software. 4. Reagent blank, positive and negative control were carried out along with the analysis and all gave the intended results.
F6VKGW	Multiplex PCR amplifications were performed on the Organic @ Phenol/Chloroform (Item 1, Item 2, Item 3 and Item 4) extracted DNA samples using the Applied Biosystems AmpFiSTR® Identifiler® Plus (STR) and Yfiler® (YSTR) amplification kits. Separation and detection of the amplified products were carried out using the Applied Biosystems 3500xL Genetic Analyzer and the data was analyzed by GeneMapper® ID-X v1.5 software.
F82AJ7	Loci DYS438 and DYS456 in the Y-STR profile from the sperm fraction of Item 4 were not reported because the loci were inconclusive due to artifacts that are not covered by laboratory protocol.
F8KWF3	NR = No Results
FDPRY3	GlobalFiler --- = No results Y-Indel, DYS391. YFiler Plus NR = No results.
FZ4DXN	1. Item 1 and Item 2, item 3 and Item 4 were extracted using Chelex Extraction Method. 2. Then it was quantified using Quantifiler Human DNA Quantification Kit and carried out by 7500 Real Time PCR. 3. Amplification was done using AmpFLSTR Identifiler Plus Kit. 4. Item 2 and Item 4 were amplified using YFiler in the 9700 Thermal Cycler. 5. Electrophoresis process were carried out by Genetic Analyzer 3500xL for Item 1 to Item 4 and analyzed with GeneMapper ID-X Software. 6. Reagent blank, positive control and negative control were carried out along with the analysis and all gave the intended results.
GB2GZW	Migration at the 14 allele in the DYS437 locus. Item 3 tested negative for semen, however Item 3 was unintentionally differentially extracted.
GBF62N	NR = No results
GVL6YA	Single unknown male, who is NOT the Suspect (Item-2), is the 2nd contributor to Item-4. The Victim's DNA (Item-1) is also detected on Item-4.
H8A4CB	NR = No Results
HMQW4N	NR = NO RESULT
L2JJ8L	No male DNA detected for Item 1 and Item 3.
LYBDLK	NR = No Results
M6UZTV	NR = no results. Y-STR analysis was performed on item 3; however, no results were obtained. Y-STR analysis was not performed on item 1 (female victim).
M6Y97P	[ ] - indicates minor allele/s and alleles between analytical and stochastic thresholds.
MFR29K	NR = No result
N3ZUNP	The Powerplex Y23 profile for Item 2 contained an anomalous migration of the 14 allele at DYS437.
NMRTZE	ND = no DNA detected. ( ) = minor allele.
P7ZF2D	[ ] - indicates minor allele/s and alleles between analytical and stochastic thresholds.
PUL8BE	Item 2 (Suspect) is eliminated as a contributor to Item 4 (sperm and epithelial fractions). Item 1 (Victim) is not eliminated as a contributor to Item 4 (epithelial fraction). Item 2 (Suspect) is eliminated as a contributor to Item 3. Item 1 (Victim) is not eliminated as a contributor to Item 3.
Q7T6MZ	According to our SOP, if the reference sample is excluded on 1 or 2 alleles but the alleles are present on the electropherogram of the sample and cannot be labeled as they are below the threshold, no conclusion can be made about whether that reference sample is a contributor to that sample or not.
Q8METG	Note: Samples were imported from GeneMapper-IDX into CTS. Upon import of Yfiler data, no data was generated in the DYS391 reporting area for the three samples subjected to Yfiler; instead, it put the alleles in the "Additional Loci" tab automatically. Since allele calls were generated using Yfiler for these samples they were removed from the "Additional Loci" tab and placed in the correct area associated with the Yfiler kit.

TABLE 5

WebCode	Additional Comments
QGARW2	RMP item 1 = 6.73E+34. RMP item 2 = 1.02E+33. LR item 3 = (item 1 + 1unk)/2unk = 3.15E+19 (d.o. = 0.58). LR item 3 = (item 2 + 1unk)/2unk = 7.78E-05 (d.o. = 0.37). LR item 4 = (item 1 + 1unk)/2unk = 1.65E+14 (d.o. = 0.1). LR item 4 = (item 2 + 1unk)/2unk = 1.97E-25 (d.o. = 0.1).
QJ37HB	[] = Minor alleles
RKP9FB	1. Item 1, Item 2, Item 3 and Item 4 were extracted via Chelex Protocol. 2. The extracted DNA were quantified using Quantifiler Human DNA Quantification Kit and further amplified using AMPFISTR Identifiler Plus kit for STR analysis. 3. Y-STR analysis were carried out on Item 2 and Item 4. 4. Electrophoresis for the amplicons were carried out using Genetic Analyzer 3500xl. 5. Reagent Blank, Positive Control and Negative Control were included in every stages of DNA analysis and all gave the intended results.
TUXWDH	[] Indicates Minor allele/s and alleles between analytical and stochastic thresholds. DY635 failed to amp for the epithelial fraction of item #4.
VKDJ4A	NR = no results
VQ4W4C	NR = No results. () = Minor component alleles.
VQJFMA	NR = No Results
X8NGK8	Item 3: Apparent blood was detected on suspects shirt. Female victim cannot be excluded as the source. Item 4: Differential semen extraction; female victim cannot be excluded as the source of the epithelial fraction; An UNKNOWN male individual cannot be excluded as the source of the semen fraction. Suspect reference sample was excluded as the DNA source within the semen fraction. Item 4: In addition, a section of the blood stain was cut and analysed. Female victim cannot be excluded as the source.
XL3UR8	NR = No Results
XMH7F6	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds. Epithelial fraction of item #4 was not amplified with Yfiler.
YB2J74	[] - indicates minor allele/s and alleles between analytical and stochastic thresholds.
ZMCCA4	[] Indicates Minor allele/s and alleles between analytical and stochastic thresholds. DYS635 failed to amp for the epithelial fraction of item #4.
ZPDNKA	The genetic profile of item (1) refers to single female (victim). The genetic profile of item (2) refers to single male (suspect). Item (3) was positive blood and the genetic profile of the blood refers to single female (victim). Item (4) was positive blood, positive semen and differential extraction was performed. The genetic profile of the blood refers to single female (victim) and The genetic profile of the semen refers to single male (not the suspect)



# Appendix: Data Sheet

Collaborative Testing Services ~ Forensic Testing Program

## **Test No. 18-5801: DNA-Mixture**

DATA MUST BE RECEIVED BY March 5, 2018 TO BE INCLUDED IN THE REPORT

Participant Code:

WebCode:

### **Accreditation Release Statement**

CTS submits external proficiency test data directly to ASCLD/LAB, ANAB, and A2LA. Please select one of the following statements to ensure your data is handled appropriately.

- This participant's data is intended for submission to ASCLD/LAB, ANAB, and/or A2LA. (Accreditation Release section on the last page must be completed and submitted.)
- This participant's data is **NOT** intended for submission to ASCLD/LAB, ANAB or A2LA.

#### Scenario:

Police are investigating the sexual assault and murder of a female victim. The victim's body was discovered in an alley behind a bar with her pants pulled down around her ankles. Upon investigation, a reddish stain was found on the victim's pants. Using security footage from the bar, a suspect was identified and apprehended. While apprehending the suspect, the arresting officers noticed a reddish stain on the suspect's shirt. Investigators are submitting stains from both the suspect's shirt (Item 3) and victim's pants (Item 4). Screening has been performed on both samples with the following results: Item 3 (suspect's shirt) is positive for blood, and Item 4 (victim's pants) is positive for blood and semen. The screening lab is submitting these samples (Items 3 and 4) along with known blood samples from the female victim and male suspect.

#### Items Submitted (Sample Pack S1):

- Item 1: Known blood from the female victim
- Item 2: Known blood from the male suspect
- Item 3: Questioned blood stain from the suspect's shirt (light yellow)
- Item 4: Questioned blood stain from the victim's pants (chocolate brown)

**Please return all pages of this data sheet.**

Page 1 of 8

Part I: DNA ANALYSIS

DNA Analysis Instructions:

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

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

<b>Example</b>	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043	
<b>A</b>	e	10,11	15,16	8	12,13	7	8
	sp	12,13	15,17	8,17	11	14,15	11,13
<b>B</b>	[10],[11],12,13	15,[16],17	8,17	[11],12,13	7,14,15	8,11,13	

**\*\*Please note Data Sheet Changes\*\***

Reporting of YSTR alleles generated from primarily autosomal STR multiplex systems.

- 1) The YSTR loci commonly generated using STR multiplex systems are now included in the STR section. (DYS391, DYS570, DYS576, Y Indel)
- 2) There is no longer a need to transcribe YSTR results from STR multiplex systems to the YSTR section.

For probabilistic genotyping software, a text field has been added directly below the amplification kit section for each item to capture which software was used.

Additional DNA Results:

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

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

**Please return all pages of this data sheet.**

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

**STR Amplification Kit(s) Used:** Please check the brands used for this item and record only additional kit specific information in the blank provided (i.e. 16, Direct, etc.).

Identifiler® \_\_\_\_\_
  GlobalFiler™ \_\_\_\_\_
  Investigator® 24plex \_\_\_\_\_  
 PowerPlex® \_\_\_\_\_ Other \_\_\_\_\_

**Report the Probabilistic Genotyping Software Used (if applicable):** \_\_\_\_\_

<b>ITEM</b>	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	FGA	Penta D	Penta E	SE33	TH01	TPOX
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	vWA	DYS391	DYS570	DYS576	Y Indel	
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

**YSTR Amplification Kit(s) Used:** Please check the brands used for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.).

Yfiler® \_\_\_\_\_
  PowerPlex® Y \_\_\_\_\_
 Other \_\_\_\_\_

<b>ITEM</b>	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please return all pages of this data sheet.

Part I (continued): DNA Results for Known Item 2

**STR Amplification Kit(s) Used:** Please check the brands used for this item and record only additional kit specific information in the blank provided (i.e. 16, Direct, etc.).

Identifiler® \_\_\_\_\_
  GlobalFiler™ \_\_\_\_\_
  Investigator® 24plex \_\_\_\_\_
  PowerPlex® \_\_\_\_\_
 Other \_\_\_\_\_

**Report the Probabilistic Genotyping Software Used (if applicable):** \_\_\_\_\_

<b>ITEM</b>	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	FGA	Penta D	Penta E	SE33	TH01	TPOX
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	vWA	DYS391	DYS570	DYS576	Y Indel	
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

**YSTR Amplification Kit(s) Used:** Please check the brands used for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.).

Yfiler® \_\_\_\_\_
  PowerPlex® Y \_\_\_\_\_
 Other \_\_\_\_\_

<b>ITEM</b>	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
2	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please return all pages of this data sheet.

Part I (continued): DNA Results for Questioned Item 3

**STR Amplification Kit(s) Used:** Please check the brands used for this item and record only additional kit specific information in the blank provided (i.e.16, Direct, etc.).

Identifiler® \_\_\_\_\_
  GlobalFiler™ \_\_\_\_\_
  Investigator® 24plex \_\_\_\_\_

PowerPlex® \_\_\_\_\_
 Other \_\_\_\_\_

**Report the Probabilistic Genotyping Software Used (if applicable):** \_\_\_\_\_

<b>ITEM</b>	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	FGA	Penta D	Penta E	SE33	TH01	TPOX
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	vWA	DYS391	DYS570	DYS576	Y Indel	
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

**YSTR Amplification Kit(s) Used:** Please check the brands used for this item and record only additional kit specific information in the blank provided (i.e.Plus, 23, etc.)

Yfiler® \_\_\_\_\_
  PowerPlex® Y \_\_\_\_\_
 Other \_\_\_\_\_

<b>ITEM</b>	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
3	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please return all pages of this data sheet.

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

**STR Amplification Kit(s) Used:** Please check the brands used for this item and record only additional kit specific information in the blank provided (i.e. 16, Direct, etc.).

Identifiler® \_\_\_\_\_
  GlobalFiler™ \_\_\_\_\_
  Investigator® 24plex \_\_\_\_\_

PowerPlex® \_\_\_\_\_
 Other \_\_\_\_\_

**Report the Probabilistic Genotyping Software Used (if applicable):** \_\_\_\_\_

<b>ITEM</b>	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	FGA	Penta D	Penta E	SE33	TH01	TPOX
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	vWA	DYS391	DYS570	DYS576	Y Indel	
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	

**YSTR Amplification Kit(s) Used:** Please check the brands used for this item and record only additional kit specific information in the blank provided (i.e. Plus, 23, etc.)

Yfiler® \_\_\_\_\_
  PowerPlex® Y \_\_\_\_\_
 Other \_\_\_\_\_

<b>ITEM</b>	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>ITEM</b>	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Part II: DNA INTERPRETATION

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

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

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

Part III: ADDITIONAL COMMENTS

Comments regarding any part of this test.

*Written conclusions (including statistical information) for DNA analysis are not required. Any interpretations based on the results obtained should be indicated above.*

*Note: Laboratories submitting their results for 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.*

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<b>Return Instructions:</b> Data must be received via online data entry, fax (please include a cover sheet), or mail by <i>March 05, 2018</i> to be included in the report. Emailed data sheets are not accepted.		ONLINE DATA ENTRY: <a href="http://www.cts-portal.com">www.cts-portal.com</a>
QUESTIONS?		FAX: +1-571-434-1937
TEL: +1-571-434-1925 (8 am - 4:30 pm EST)		MAIL: Collaborative Testing Services, Inc.
EMAIL: <a href="mailto:forensics@cts-interlab.com">forensics@cts-interlab.com</a>		P.O. Box 650820
<a href="http://www.ctsforensics.com">www.ctsforensics.com</a>		Sterling, VA 20165-0820 USA

**Please return all pages of this data sheet.**

Collaborative Testing Services - Forensic Testing Program

**RELEASE OF DATA TO ACCREDITATION BODIES**

The following Accreditation Releases will apply only to:

Participant Code:

WebCode:

for Test No. **18-5801: DNA-Mixture**

This release page must be completed and received by **March 5, 2018** to have this participant's submitted data included in the reports forwarded to the respective Accreditation Bodies.

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

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

**ANAB** Certificate No. \_\_\_\_\_

(Include ASCLD/LAB Certificate here)

**A2LA** Certificate No. \_\_\_\_\_

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

Signature and Title \_\_\_\_\_

Laboratory Name \_\_\_\_\_

Location (City/State) \_\_\_\_\_

**Accreditation Release**

**Return Instructions**

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

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

**Please return all pages of this data sheet.**

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