



## **DNA-Semen Test No. 18-5802**

### **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 226 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 FTA Micro cards (Items 1 & 2), and two questioned stains; one on clean heather grey fabric (Item 3) and one on clean, light blue 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 (75  $\mu$ l) and 3 (50  $\mu$ l) were each created using blood collected from the same female donor. Item 2 (75  $\mu$ 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 same female donor used for Items 1 & 3 and semen from the same male donor used for Item 2. Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on March 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:** Laboratories that conducted predistribution analysis of the samples reported consistent allelic results and confirmed the manufacturer's expected associations.

## Manufacturer's Information, continued

<b>Amelogenin and STR Results</b>						
<i>Results compiled from predistribution laboratories and a consensus of at least 10 participants.</i>						
<b>Item</b>	<b>D1S1656</b>	<b>D2S1338</b>	<b>D2S441</b>	<b>D3S1358</b>	<b>D5S818</b>	<b>D6S1043</b>
	<b>D7S820</b>	<b>D8S1179</b>	<b>D10S1248</b>	<b>D12S391</b>	<b>D13S317</b>	<b>D16S539</b>
	<b>D18S51</b>	<b>D19S433</b>	<b>D21S11</b>	<b>D22S1045</b>	<b>Amelogenin</b>	<b>CSF1PO</b>
	<b>FGA</b>	<b>Penta D</b>	<b>Penta E</b>	<b>SE33</b>	<b>TH01</b>	<b>TPOX</b>
	<b>vWA</b>	<b>DYS391</b>	<b>DYS570</b>	<b>DYS576</b>	<b>Y Indel</b>	
1	13,17	17,25	11,11	14,16	11,12	*
	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NM	NM	NM	NM	
2	16.3,18.3	22,22	10,10	15,17	13,13	*
	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17	2	
3	13,17	17,25	11,11	14,16	11,12	*
	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NM	NM	NM	NM	
4-Blood	13,17	17,25	11,11	14,16	11,12	*
	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NM	NM	NM	NM	
4-Semen	16.3,18.3	22,22	10,10	15,17	13,13	*
	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17	2	

<b>YSTR Results</b>									
<i>Results compiled from predistribution laboratories and a consensus of at least 10 participants.</i>									
<b>Item</b>	<b>DYF387S1</b>	<b>DYS19</b>	<b>DYS385</b>	<b>DYS389-I</b>	<b>DYS389-II</b>	<b>DYS390</b>	<b>DYS391</b>	<b>DYS392</b>	<b>DYS393</b>
	<b>DYS437</b>	<b>DYS438</b>	<b>DYS439</b>	<b>DYS448</b>	<b>DYS449</b>	<b>DYS456</b>	<b>DYS458</b>	<b>DYS460</b>	<b>DYS481</b>
	<b>DYS518</b>	<b>DYS533</b>	<b>DYS549</b>	<b>DYS570</b>	<b>DYS576</b>	<b>DYS627</b>	<b>DYS635</b>	<b>DYS643</b>	<b>Y GATA H4</b>
2	38,39	14	17,18	13	30	21	10	11	13
	13	11	12	21	34	16	16	11	24
	40	11	11	17	17	17	21	13	11
4-Semen	38,39	14	17,18	13	30	21	10	11	13
	13	11	12	21	34	16	16	11	24
	40	11	11	17	17	17	21	13	11

\* Results were not received by a minimum of 10 participants for the STR loci indicated.  
 NM - Non-Male profile, YSTR results not expected.

## Summary Comments

The DNA-Semen 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 the same female donor. Item 2 was created using blood collected from a male donor. Item 4 was a mixture containing blood from the female donor used for Items 1 and 3 as well as semen from the same male donor used for Item 2. (See Manufacturer's Information for preparation details)

Of the 226 participants that returned results, 196 reported DNA interpretations.

For the Item 3 stain, all 192 participants that reported interpretations both included the victim (Item 1) as a possible contributor and excluded the suspect (Item 2).

For the Item 4 stain, there were 195 participants that included the victim (Item 1) as a possible contributor, while one participant reported a result of Inconclusive. All 196 participants included the suspect (Item 2) as a possible contributor to the Item 4 stain.

Forty participants reported allelic results that differed from consensus/predistribution results. Of these, 26 participants were reporting additional alleles at one or more loci. Additionally, six participants were missing results at one or more loci. Finally, there were seven participants that reported a combination of missing alleles and additional alleles at one or more loci. Of these 40 participants, it was noted that 33 made use of Probabilistic Genotyping software.

There continues to be an increase in the number of participants reporting the use of Probabilistic Genotyping (PG). In this test, 46 laboratories reported the use of PG software. Of these, most participants (42) reported the use of the STRmix software. While reviewing the data submitted for this test, differences between when the software was used were noted. These differences were identified not only between labs but also within participants from the same lab. Among all the participants that submitted results using PG software, 21 participants used it across all four items whereas 21 participants only made use of it for both Item 3 and the Item 4 mixture. Finally, there were four participants that used the software only for the Item 4 mixture.

# 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

23CGE2	GlobalFiler™	13,17	17,25	11,11	14,16	11,12
1		9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23			11,30.2	7,9.3
		15,16				8,11
<hr/>						
279376	Investigator® 24plex	13,17	17,25	11,11	14,16	11,12
1		9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23			11,30.2	7,9.3
		15,16				8,11
<hr/>						
2YPYZM	PowerPlex® Fusion	13,17	17,25	11,11	14,16	11,12
1		9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23	9,10	10,12		7,9.3
		15,16				8,11
<hr/>						
2Z7QEE	GlobalFiler™	13,17	17,25	11	14,16	11,12
1		9	11,12	13,14	17,19	8,12
		15,16	12	28,31.2	15,17	X
		18,23			11,30.2	7,9.3
		15,16				8,11
<hr/>						
32XW3N	Investigator® 24plex	13,17	17,25	11	14,16	11,12
1		9	11,12	13,14	17,19	8,12
		15,16	12	28,31.2	15,17	X
		18,23			11,30.2	7,9.3
		15,16				8,11
<hr/>						
36VDDW	GlobalFiler™	13,17	17,25	11	14,16	11,12
1		9	11,12	13,14	17,19	8,12
		15,16	12	28,31.2	15,17	X
		18,23			11,30.2	7,9.3
		15,16				8,11

TABLE 1

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

## Item 1 - STR Results

3BHK3C	GlobalFiler™					
		13,17	17,25	11,11	14,16	11,12
1		9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23			11,30.2	7,9.3
		15,16	Not detected			Not detected
3CEYP6	PowerPlex® Fusion					
		13,17	17,25	11,11	14,16	11,12
1		9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23	9,10	10,12		7,9.3
		15,16				
3MZLUK	Investigator® 24plex QS					
		13,17	17,25	11,11	14,16	11,12
1		9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23	N/A	N/A	11,30.2	7,9.3
		15,16		N/A	N/A	N/A
3P33VF	PowerPlex® ESI 16 Fast					
		13,17	17,25	11,11	14,16	
1			11,12	13,14	17,19	9,11
		15,16	12,12	28,31.2	15,17	X,X
		18,23				7,9.3
		15,16				
3TMBEU	PowerPlex® Fusion 6C					
		13,17	17,25	11,11	14,16	11,12
1		9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23	9,10	10,12	11,30.2	7,9.3
		15,16	NR	NR	NR	NT
42R3WM	Investigator® 24plex					
		13,17	17,25	11	14,16	11,12
1		9	11,12	13,14	17,19	8,12
		15,16	12	28,31.2	15,17	X
		18,23			11,30.2	7,9.3
		15,16				
436C8A	GlobalFiler™					
		13,17	17,25	11,11	14,16	11,12
1		9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23			11,30.2	7,9.3
		15,16				

TABLE 1

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

## Item 1 - STR Results

43NFJF	Investigator® 24plex (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
49RWZB	Identifiler®					
		17,25		14,16	11,12	
1	9,9	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					
4A74LR	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
4A8VGE	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
4DKZN9	PowerPlex® Fusion 6C (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
4FCVWB	GlobalFiler™ Express					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16	Not Detected			Not Detected	
4PW9PE	PowerPlex® ESX, PP21 (ABI-HID-3500)					
	13,17	17,25	11,13	14,16	11,12	12,16
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X,X	12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					

TABLE 1

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

## Item 1 - STR Results

4UQQZQ	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	no results			no results	
6BAFHJ	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
6D3UZM	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
6F7ZQA	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
6HDQ4X	Investigator® 24plex GO!					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
6N7PHT	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NR	NR	NR		
6NWMEK	PowerPlex® 16					
				14,16	11,12	
1	9,9	11,12			8,12	9,11
	15,16		28,31.2		X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					



TABLE 1

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

## Item 1 - STR Results

6PFUVG	Investigator® 24plex (STRmix)					
	13,17	17,25	11,11	14,16	11,12	NA
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	NA	NA	11,30.2	7,9.3	8,11
	15,16		NA	NA	NA	
6QTWUW	Investigator® 24plex GO!					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
6RJ4TY	PowerPlex® Fusion 6C					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NR	NR	NR		
6VKVUP	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NR	NR	NR		
6WD2HQ	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16	No Results			No Results	
77UV23	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
7DE6H8	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					

TABLE 1

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

## Item 1 - STR Results

7M4E3F	Investigator® 24plex QS					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
7Q2DHU	PowerPlex® 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NR	NR	NR		
83DFZW	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X,X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
84RJWA	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
87Q6HK	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
89FBZW	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
8EL6R8	PowerPlex® Fusion 5C					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	NR				

TABLE 1

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

## Item 1 - STR Results

8NUZ7Q	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NR	NR	NR		
8RV4XD	Investigator® 24plex (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
8U2TX2	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	Not Tested
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	Not Tested	Not Tested	11,30.2	7,9.3	8,11
	15,16	No Results	Not Tested	Not Tested	No Results	
8UFK3Y	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
93MTW6	PowerPlex® ESX17, GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16	N.D.			N.D.	
96DN68	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
98HBJW	PowerPlex® Fusion 5C					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					

TABLE 1

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

## Item 1 - STR Results

9E4DK8	PowerPlex® Fusion 6C					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
9LKRLR	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
9PKZU9	PowerPlex® Fusion 6C (TrueAllele)					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
9RQG87	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
9VPKMC	Investigator® 24plex (STRmix)					
	13,17	17,25	11,11	14,16	11,12	NA
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	NA	NA	11,30.2	7,9.3	8,11
	15,16		NA	NA	NA	
A27YUA	GlobalFiler™ Express					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	NR			NR	
A3HTDG	PowerPlex® Fusion 5C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					

TABLE 1

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

## Item 1 - STR Results

A4F2HU	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
A68ZWR	Identifiler® Direct					
		17,25		14,16	11,12	
1	9	11,12			8,12	9,11
	15,16	12	28,31.2		X,X	12
	18,23				7,9.3	8,11
	15,16					
ALK22V	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X,X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
ANK83Y	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	NR			NR	
ATHWYU	PowerPlex® Fusion					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
AYMTHU	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
AYQMDE	GlobalFiler™ (STRmix)					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					

TABLE 1

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

## Item 1 - STR Results

B8CBJZ	Identifiler® Plus					
		17,25		14,16	11,12	
1	9,9	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					
BBTCBK	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
BGZ28D	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
BKHZ43	GlobalFiler™ Express					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16	Not detected			Not detected	
BL92AQ	Identifiler® Direct					
		17,25		14,16	11,12	
1	9	11,12			8,12	9,11
	15,16	12	28,31.2		X,X	12
	18,23				7,9.3	8,11
	15,16					
BLD4RN	GlobalFiler™ (STRmix)					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
BREXTQ	Identifiler® Plus (in house software)					
		17,25		14,16	11,12	
1	9,9	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					

TABLE 1

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

## Item 1 - STR Results

BRZAW6	PowerPlex® Fusion 6C					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
CDYXYK	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
CH7LCM	PowerPlex® Fusion 6C, GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	No Results	No Results	No Results	No Results	
CPPRBE	Identifiler® Plus					
		17,25		14,16	11,12	
1	9,9	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					
D6EGJG	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
D6MLED	Investigator® 24plex					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	INC				
DATTJ4	PowerPlex® Fusion					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	NR				

TABLE 1

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

## Item 1 - STR Results

DAUCGJ	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NR	NR	NR		
DFYP44	PowerPlex® Fusion					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	NR				
DMXCWN	Identifiler® Direct					
		17,25		14,16	11,12	
1	9	11,12			8,12	9,11
	15,16	12	28,31.2		X,X	12
	18,23				7,9.3	8,11
	15,16					
DP9HPX	PowerPlex® ESX16 fast					
	13,17	17,25	11	14,16		
1		11,12	13,14	17,19		9,11
	15,16	12	28,31.2	15,17	X	
	18,23				7,9.3	
	15,16					
DUFJX2	Identifiler®					
		17,25		14,16	11,12	
1	9,9	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					
DVXXJB	Investigator® 24plex (STRmix)					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
DXFECF	PowerPlex® Fusion					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					



TABLE 1

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

## Item 1 - STR Results

E6WARA	Investigator® 24plex QS (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
EANGBJ	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NR	NR	NR		
EEHEXN	PowerPlex® Fusion					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	ND				
EGAPZX	PowerPlex® Fusion 5C					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
EK87ED	PowerPlex® Fusion					
	13,17	17,25	11,11	14,16	11,12	N/A
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	N/A	7,9.3	8,11
	15,16	N/A	N/A	N/A	N/A	
EN8Z68	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
EXCQDW	GlobalFiler™ Express					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	No Results			No Results	

TABLE 1

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

## Item 1 - STR Results

EY4PRU	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
EYMJDQ	PowerPlex® Fusion					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X,X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
F4GBB7	Investigator® 24plex QS					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
F4GMWW	GlobalFiler™ Express					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	No Results			No Results	
FAH482	PowerPlex® Fusion					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	NR				
FBFXZK	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
FKM34H	Investigator® 24plex GO!					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					

TABLE 1

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

## Item 1 - STR Results

FKMD9E	PowerPlex® Fusion					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
FWVRZY	Identifiler®					
		17,25		14,16	11,12	
1	9,9	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					
G8CZWQ	PowerPlex® 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
G8EGFJ	Investigator® 24plex Go!					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
G99EJJ	NGM SElect					
	13,17	17,25	11,11	14,16		
1		11,12	13,14	17,19		9,11
	15,16	12,12	28,31.2	15,17	X,X	
	18,23			11,30.2	7,9.3	
	15,16					
GLDXEA	Investigator® 24plex					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
GMA4KQ	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16	--			--	

TABLE 1

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

## Item 1 - STR Results

GTA8N3	GlobalFiler™ Express					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	NR			NR	
GWXU8H	Investigator® 24plex GO!					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
H23TFM	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X,X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
H6434A	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
H89VVM	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16	No results				
HAGYRJ	Investigator® 24plex (STR mix)					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
HF7RCC	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	No Results			No Results	

TABLE 1

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

## Item 1 - STR Results

HL9XRF	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NR	NR	NR		
HXZ2ZU	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
HYW3XQ	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	No Results			No Results	
HYWENM	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	No Results	No Results	No Results		
HYXUTD	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NR	NR	NR		
JB7EVZ	PowerPlex® Fusion					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
JKDDH	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					

TABLE 1

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

## Item 1 - STR Results

JM2939	Investigator® 24plex (STRMix)					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
JNBUGV	PowerPlex® Fusion					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	NR				
JRB4PC	Identifiler®, MiniFiler					
		17,25		14,16	11,12	
1	9,9	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					
JVT7UW	PowerPlex® Fusion 5C					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	NR				
JXGZQH	Investigator® 24plex GO!					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
K7AV48	Investigator® 24plex (STRMix)					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
K7RCAF	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					

TABLE 1

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

## Item 1 - STR Results

KFU2ZB	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NR	NR	NR		
KG829L	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
KJKV8X	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
KTPKTH	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
KVMBNV	PowerPlex® Fusion					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	NR				
KZLFQF	Investigator® 24plex GO!					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
L8X3RV	PowerPlex® Fusion					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	NR				

TABLE 1

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

## Item 1 - STR Results

L9CH8H	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X,X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
LBZ27U	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
LCURAN	GlobalFiler™ Express					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	No result			No result	
LIU3QE	Investigator® 24plex GO!					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
LN2Q3V	PowerPlex® Fusion					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
LN4T3D	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
LNPLGW	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					



TABLE 1

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

## Item 1 - STR Results

LR8XM9	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
LTZEUG	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
LV7XVX	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
LWFJAK	PowerPlex® 5C					
	13,17	17,25	11,11	14,16	11,12	Not Tested
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	Not Tested	7,9.3	8,11
	15,16	No Results	Not Tested	Not Tested	Not Tested	
LWHB68	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	No Results
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	No Results	No Results	No Results	No Results	
LXA8RF	Identifiler® Direct					
		17,25		14,16	11,12	
1	9	11,12			8,12	9,11
	15,16	12	28,31.2		X,X	12
	18,23				7,9.3	8,11
	15,16					
M2CV2G	PowerPlex® Fusion					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					

TABLE 1

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

## Item 1 - STR Results

M8AC4T	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
M8UJDX	Investigator® 24plex (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
MCBQZC	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
MDJ2RA	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NR	NR	NR		
MJ69GN	GlobalFiler™ Express					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	NR			NR	
MPCK9Z	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
MX689R	Identifiler® Plus					
		17,25		14,16	11,12	
1	9,9	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					

TABLE 1

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

## Item 1 - STR Results

MX8UTQ	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16	N.D.			N.D.	
NAFYCR	Identifiler®					
		17,25		14,16	11,12	
1	9	11,12			8,12	9,11
	15,16	12	28,31.2		X	12
	18,23				7,9.3	8,11
	15,16					
NGEL27	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16	No Results			No Results	
NKUY3T	PowerPlex® Fusion					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	NR				
NLC4KR	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
P434XM	Identifiler® Plus					
		17,25		14,16	11,12	
1	9,9	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					
P7T64A	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					

TABLE 1

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

## Item 1 - STR Results

PCKEKM	PowerPlex® 21					
	13,17	17,25		14,16	11,12	12,16
1	9,9	11,12		17,19	8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
PJJEV6	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
PW6CUY	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
Q8KJ7T	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
QBX3V9	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	Not Tested
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	No Results	No Results	No Results	Not Tested	
QKLUH2	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	No Results	No Results	No Results		
QLK2LE	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16	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

R6RGQC	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
R8HFR9	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	NR			NR	
RLF XU9	Investigator® 24plex GO!					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
RLF YCZ	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
RLZK7B	Identifiler® Direct					
	-	17,25	-	14,16	11,12	-
1	9	11,12	-	-	8,12	9,11
	15,16	12	28,31.2	-	X,X	12
	18,23	-	-	-	7,9.3	8,11
	15,16	-	-	-	-	
RRNQXX	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
RTX8ZW	PowerPlex® Fusion 6C, Investigator® 24plex HDplex (DNASTat)					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					

TABLE 1

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

## Item 1 - STR Results

R373BL	QIAamp® DNA Investigator Kit					
		17,25		14,16	11,12	
1	9,9	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					
T4VN7D	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
T6RELK	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
T7H87P	Identifiler® ID+, PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
TG49UC	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X,X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	-			-	
TNZ237	Investigator® 24plex GO!					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
TYHU7L	PowerPlex® Fusion					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	NR				

TABLE 1

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

## Item 1 - STR Results

U9KCGN	PowerPlex® ESX-17					
	13,17	17,25	11	14,16		
1		11,12	13,14	17,19		9,11
	15,16	12	28,31.2	15,17	X	
	18,23			11,30.2	7,9.3	
	15,16					
UDVHWV	PowerPlex® Fusion 5C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
UEN2T8	PowerPlex® Fusion					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
UJPD3A	PowerPlex® Fusion					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
URXFCU	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
UUN9XJ	PowerPlex® ESX17, GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16	Not Detected			Not Detected	
V4PTZC	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					

TABLE 1

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

## Item 1 - STR Results

V7W9A4	Investigator® 24plex GO!					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
VC34T4	Investigator® 24plex GO!					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
VE9ZLY	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NR	NR	NR		
VKA9TR	GlobalFiler™ (STRmix)					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
VMZRYE	GlobalFiler™ Express					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	no results			no results	
VPQGGR	Investigator® 24plex QS (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
VRR29C	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					



TABLE 1

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

## Item 1 - STR Results

WV3AAG	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
VXGE9F	GlobalFiler™ Express					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	NR			NR	
VXYMWA	PowerPlex® Fusion 5C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	No Results				
VYTW2P	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
WDBG9J	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
WW3MGA	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
X7KH2	Investigator® 24plex GO!					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					

TABLE 1

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

## Item 1 - STR Results

XBV4UR	Investigator® 24plex (STRmix)					
		13,17	17,25	11	14,16	11,12
	1	9	11,12	13,14	17,19	8,12
		15,16	12	28,31.2	15,17	X
		18,23			11,30.2	7,9.3
	15,16				8,11	
XCQ42X	GlobalFiler™					
		13,17	17,25	11,11	14,16	11,12
	1	9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23			11,30.2	7,9.3
	15,16				8,11	
XG7ZY2	GlobalFiler™					
		13,17	17,25	11	14,16	11,12
	1	9	11,12	13,14	17,19	8,12
		15,16	12	28,31.2	15,17	X
		18,23			11,30.2	7,9.3
	15,16				8,11	
XHXTGK	Investigator® 24plex					
		13,17	17,25	11,11	14,16	11,12
	1	9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23			11,30.2	7,9.3
	15,16				8,11	
XLD3QH	PowerPlex® Fusion					
		13,17	17,25	11	14,16	11,12
	1	9	11,12	13,14	17,19	8,12
		15,16	12	28,31.2	15,17	X
		18,23	9,10	10,12		7,9.3
	15,16	NR			8,11	
XUCLH	GlobalFiler™					
		13,17	17,25	11	14,16	11,12
	1	9	11,12	13,14	17,19	8,12
		15,16	12	28,31.2	15,17	X
		18,23			11,30.2	7,9.3
	15,16				8,11	
Y6NXRU	PowerPlex® Fusion					
		13,17	17,25	11,11	14,16	11,12
	1	9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23	9,10	10,12		7,9.3
	15,16				8,11	

TABLE 1

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

## Item 1 - STR Results

YAWZJB	GlobalFiler™ Express					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	NR			NR	
YCMYXA	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
YEA4MC	Identifiler® ID+ (STRmix)					
		17,25		14,16	11,12	
1	9,9	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					
YETJLA	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16	No Results				
YMJ8GC	GlobalFiler™ Express					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	NR			NR	
YR3M44	PowerPlex® Fusion					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
Z2HBK3	Identifiler® Direct					
	-	17,25	-	14,16	11,12	-
1	9	11,12	-	-	8,12	9,11
	15,16	12	28,31.2	-	X,X	12
	18,23	-	-	-	7,9.3	8,11
	15,16	-	-	-	-	

TABLE 1

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

## Item 1 - STR Results

Z94PJM	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
ZC4ZEM	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
ZEBDWN	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
ZM6ZWF	PowerPlex® Fusion 6C					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
ZP8ZT7	GlobalFiler™, Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
ZQKVQC	PowerPlex® 21					
	13,17	17,25		14,16	11,12	12,16
1	9,9	11,12		17,19	8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
ZU2TAF	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
1	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	NR			NR	

TABLE 1

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

Item 1 - STR Results

ZYU8N	PowerPlex® Fusion 6C, GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	Not Tested
1	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16				Not Tested	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

23CGE2	GlobalFiler™					
		16.3,18.3	22,22	10,10	15,17	13,13
2		9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20,20	6,7
		15,15	10			2
279376	Investigator® 24plex					
		16.3,18.3	22,22	10,10	15,17	13,13
2		9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20,20	6,7
		15,15	10			2
2YPYZM	PowerPlex® Fusion					
		16.3,18.3	22,22	10,10	15,17	13,13
2		9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2	9,14	10,17		6,7
		15,15	10,10			2
2Z7QEE	GlobalFiler™					
		16.3,18.3	22	10	15,17	13
2		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
32XW3N	Investigator® 24plex					
		16.3,18.3	22	10	15,17	13
2		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
36VDDW	GlobalFiler™					
		16.3,18.3	22	10	15,17	13
2		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
3BHK3C	GlobalFiler™					
		16.3,18.3	22,22	10,10	15,17	13,13
2		9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20,20	6,7
		15,15	10			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

3CEYP6	PowerPlex® Fusion					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15,15	10				
3MZLUK	Investigator® 24plex QS					
	16.3,18.3	22,22	10,10	15,17	13,13	N/A
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	N/A	N/A	20,20	6,7	10,11
	15,15	10	N/A	N/A	N/A	
3P33VF	PowerPlex® ESI 16 Fast					
	16.3,18.3	22,22	10,10	15,17		
2		12,15	13,17	17,21		11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	
	21,30.2				6,7	
	15,15					
3TMBEU	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	NT
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17	NT	
42R3WM	Investigator® 24plex					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10				
436C8A	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
43NFJF	Investigator® 24plex (STRmix)					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

49RWZB	Identifiler®					
		22,22		15,17	13,13	
2		9,10	12,15		12,12	11,12
		13,17	14,16.2	28,31.2	X,Y	7,9
		21,30.2			6,7	10,11
		15,15				
4A74LR	Investigator® 24plex					
		16.3,18.3	22,22	10,10	15,17	13,13
2		9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2		20,20	6,7	10,11
		15,15	10			
4A8VGE	PowerPlex® Fusion 6C					
		16.3,18.3	22,22	10,10	15,17	13,13
2		9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2	9,14	10,17	20,20	6,7
		15,15	10	17	17	
4DKZN9	PowerPlex® Fusion 6C (STRmix)					
		16.3,18.3	22,22	10,10	15,17	13,13
2		9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2	9,14	10,17	20,20	6,7
		15,15	10	17	17	
4FCVWB	GlobalFiler™ Express					
		16.3,18.3	22,22	10,10	15,17	13,13
2		9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2		20,20	6,7	10,11
		15,15	10		2	
4PW9PE	PowerPlex® PPESX,PP21 (ABI-HID 3500)					
		16.3,18.3	22	10	15,17	13
2		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2	9,14	10,17	20	6,7
		15				
4UQQZQ	GlobalFiler™					
		16.3,18.3	22	10	15,17	13
2		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2		20	6,7	10,11
		15	10		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

6BAFHJ	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
6D3UZM	Investigator® 24plex					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
6F7ZQA	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
6HDQ4X	Investigator® 24plex GO!					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10				
6N7PHT	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
6NWMEK	PowerPlex® Fusion 5C					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15,15	10				
6PFUVG	Investigator® 24plex (STRmix)					
	16.3,18.3	22,22	10,10	15,17	13,13	NA
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	NA	NA	20,20	6,7	10,11
	15,15	10	NA	NA	NA	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

6QTWUW	Investigator® 24plex GO!					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10				
6RJ4TY	PowerPlex® Fusion 6C					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20	6,7	10,11
	15	10	17	17		
6VKVUP	PowerPlex® Fusion 6C					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
6WD2HQ	GlobalFiler™					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
77UV23	GlobalFiler™					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
7DE6H8	PowerPlex® Fusion 6C					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
7M4E3F	Investigator® 24plex QS					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

7Q2DHU	PowerPlex® 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
83DFZW	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
84RJWA	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
87Q6HK	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
89FBZW	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
8EL6R8	PowerPlex® Fusion 5C					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				
8NUZ7Q	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	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

8RV4XD	Investigator® 24plex (STRmix)					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
8U2TX2	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	Not Tested
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	Not Tested	Not Tested	20	6,7	10,11
	15	10	Not Tested	Not Tested	2	
8UFK3Y	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
93MTW6	PowerPlex® ESX17, GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
96DN68	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
98HBJW	PowerPlex® Fusion 5C					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				
9E4DK8	PowerPlex® Fusion 6C					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20	6,7	10,11
	15	10	17	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

9LKRLR	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
9PKZU9	PowerPlex® Fusion 6C (TrueAllele)					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20	6,7	10,11
	15	10	17	17		
9RQG87	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
9VPKMC	Investigator® 24plex (STRmix)					
	16.3,18.3	22,22	10,10	15,17	13,13	NA
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	NA	NA	20,20	6,7	10,11
	15,15	10	NA	NA	NA	
A27YUA	GlobalFiler™ Express					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
A3HTDG	Investigator® 24plex					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
A4F2HU	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	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

A68ZWR	Identifiler® Direct					
		22		15,17	13	
2		9,10	12,15		12	11,12
		13,17	14,16.2	28,31.2	X,Y	7,9
		21,30.2			6,7	10,11
		15				
ALK22V	GlobalFiler™					
		16.3,18.3	22	10	15,17	13
2		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
ANK83Y	GlobalFiler™					
		16.3,18.3	22	10	15,17	13
2		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
ATHWYU	PowerPlex® Fusion					
		16.3,18.3	22,22	10,10	15,17	13,13
2		9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2	9,14	10,17		6,7
		15,15	10			
AYMTHU	GlobalFiler™					
		16.3,18.3	22	10	15,17	13
2		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
AYQMDE	GlobalFiler™ (STRmix)					
		16.3,18.3	22	10	15,17	13
2		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
B8CBJZ	Identifiler® Plus					
			22,22		15,17	13,13
2		9,10	12,15			12,12
		13,17	14,16.2	28,31.2		X,Y
		21,30.2				6,7
		15,15				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 2 - STR Results

BBTCBK	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
BGZ28D	Investigator® 24plex					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
BKHZ43	GlobalFiler™ Express					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
BL92AQ	Identifiler® Direct					
		22		15,17	13	
2	9,10	12,15			12	11,12
	13,17	14,16.2	28,31.2		X,Y	7,9
	21,30.2				6,7	10,11
	15					
BLD4RN	GlobalFiler™ (STRmix)					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
BREXTQ	Identifiler® Plus (in house software)					
		22,22		15,17	13,13	
2	9,10	12,15			12,12	11,12
	13,17	14,16.2	28,31.2		X,Y	7,9
	21,30.2				6,7	10,11
	15,15					
BRZAW6	PowerPlex® Fusion 6C					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20	6,7	10,11
	15	10	17	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

CDYXXK	Investigator® 24plex					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
CH7LCM	PowerPlex® Fusion 6C, GlobalFiler™					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17	2	
CPPRBE	PowerPlex® Fusion					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15,15	10				
D6EGJG	Investigator® 24plex					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
D6MLED	Investigator® 24plex					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10				
DATTJ4	PowerPlex® Fusion					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				
DAUCGJ	PowerPlex® Fusion 6C					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	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

DFYP44	PowerPlex® Fusion					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				
DMXCWN	Identifiler® Direct					
		22		15,17	13	
2	9,10	12,15			12	11,12
	13,17	14,16.2	28,31.2		X,Y	7,9
	21,30.2				6,7	10,11
	15					
DP9HPX	PowerPlex® ESX16 fast					
	16,3,18.3	22	10	15,17		
2		12,15	13,17	17,21		11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	
	21,30.2				6,7	
	15					
DUFJX2	Identifiler®					
		22,22		15,17	13,13	
2	9,10	12,15			12,12	11,12
	13,17	14,16.2	28,31.2		X,Y	7,9
	21,30.2				6,7	10,11
	15,15					
DVXXJB	Investigator® 24plex (STRmix)					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10				
DXFECF	PowerPlex® Fusion					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15,15	10				
E6WARA	Investigator® 24plex QS (STRmix)					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

EANGBJ	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
EEHEXN	PowerPlex® Fusion					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15,15	10				
EGAPZX	PowerPlex® Fusion 5C					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				
EK87ED	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	N/A
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	N/A	N/A	20,20	6,7	10,11
	15,15	10	N/A	N/A	2	
EN8Z68	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
EXCQDW	GlobalFiler™ Express					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
EY4PRU	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			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

EYMJDQ	PowerPlex® Fusion					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				
F4GBB7	Investigator® 24plex QS					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
F4GMWW	GlobalFiler™ Express					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
FAH482	PowerPlex® Fusion					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				
FBFXZK	GlobalFiler™					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
FKM34H	Investigator® 24plex GO!					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10				
FKMD9E	PowerPlex® Fusion					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15,15	10				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

FWVRZY	Identifiler®					
		22,22		15,17	13,13	
2		9,10	12,15		12,12	11,12
		13,17	14,16.2	28,31.2	X,Y	7,9
		21,30.2			6,7	10,11
		15,15				
G8CZWQ	PowerPlex® 6C					
		16.3,18.3	22,22	10,10	15,17	13,13
2		9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2	9,14	10,17	20,20	6,7
		15,15	10	17	17	
G8EGFJ	Investigator® 24plex Go!					
		16.3,18.3	22	10	15,17	13
2		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			
G99EJJ	NGM SElect					
		16.3,18.3	22,22	10,10	15,17	
2		9,10	12,15	13,17	17,21	11,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20,20	6,7
		15,15				
GLDXEA	Investigator® 24plex					
		16.3,18.3	22	10	15,17	13
2		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			
GMA4KQ	GlobalFiler™					
		16.3,18.3	22,22	10,10	15,17	13,13
2		9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20,20	6,7
		15,15	10			2
GTA8N3	GlobalFiler™ Express					
		16.3,18.3	22	10	15,17	13
2		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			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

GWXU8H	Investigator® 24plex GO!					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10				
H23TFM	GlobalFiler™					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
H6434A	Investigator® 24plex					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
H89VWM	Investigator® 24plex					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
HAGYRJ	Investigator® 24plex (STRmix)					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
HF7RCC	GlobalFiler™					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
HL9XRF	PowerPlex® Fusion 6C					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	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

HXZ2ZU	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
HYW3XQ	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
HYWENM	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
HYXUTD	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
JB7EVZ	PowerPlex® Fusion					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				
JKDDH	Investigator® 24plex					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
JM2939	Investigator® 24plex (STRMix)					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

JNBUGV	PowerPlex® Fusion					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				
JRB4PC	Identifiler®, MiniFiler					
		22,22		15,17	13,13	
2	9,10	12,15			12,12	11,12
	13,17	14,16.2	28,31.2		X,Y	7,9
	21,30.2				6,7	10,11
	15,15					
JVT7UW	PowerPlex® Fusion 5C					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				
JXGZQH	Investigator® 24plex GO!					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10				
K7AV48	Investigator® 24plex (STRMix)					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10				
K7RCAF	Investigator® 24plex					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
KFU2ZB	PowerPlex® Fusion 6C					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	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

KG829L	GlobalFiler™					
	16,3,18.3	22,22	10,10	15,17	13,13	
	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
KJVK8X	Identifiler® Plus, PowerPlex® Fusion 6C					
	16,3,18.3	22,22	10,10	15,17	13,13	
	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
KTPKTH	Investigator® 24plex					
	16,3,18.3	22,22	10,10	15,17	13,13	
	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
KVMBNV	PowerPlex® Fusion					
	16,3,18.3	22	10	15,17	13	
	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				
KZLFQF	Investigator® 24plex GO!					
	16,3,18.3	22	10	15,17	13	
	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10				
L8X3RV	PowerPlex® Fusion					
	16,3,18.3	22	10	15,17	13	
	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				
L9CH8H	GlobalFiler™					
	16,3,18.3	22	10	15,17	13	
	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			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

LBZ27U	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
	2	9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2		20,20	6,7	10,11
		15,15	10		2	
LCURAN	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
	2	9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2		20	6,7	10,11
		15	10		2	
LJU3QE	Investigator® 24plex go!					
	16.3,18.3	22	10	15,17	13	
	2	9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2		20	6,7	10,11
		15	10			
LN2Q3V	PowerPlex® Fusion					
	16.3,18.3	22	10	15,17	13	
	2	9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2	9,14	10,17	6,7	10,11
		15	10			
LN4T3D	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
	2	9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2		20	6,7	10,11
		15	10		2	
LNPLGW	Investigator® 24plex					
	16.3,18.3	22,22	10,10	15,17	13,13	
	2	9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2		20,20	6,7	10,11
		15,15	10			
LR8XM9	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
	2	9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2		20,20	6,7	10,11
		15,15	10		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

LTZEUG	GlobalFiler™					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
LV7VX	Investigator® 24plex					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
LWFJAK	PowerPlex® 5C					
	16,3,18.3	22,22	10,10	15,17	13,13	Not Tested
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	Not Tested	6,7	10,11
	15,15	10	Not Tested	Not Tested	Not Tested	
LWHB68	PowerPlex® Fusion 6C					
	16,3,18.3	22,22	10,10	15,17	13,13	Not Tested
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17	Not Tested	
LXA8RF	Identifiler® Direct					
		22		15,17	13	
2	9,10	12,15			12	11,12
	13,17	14,16.2	28,31.2		X,Y	7,9
	21,30.2				6,7	10,11
	15					
M2CV2G	PowerPlex® Fusion					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15,15	10				
M8AC4T	GlobalFiler™					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			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

M8UJDX	Investigator® 24plex (STRmix)					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10,10				
MCBQZC	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
MDJ2RA	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
MJ69GN	GlobalFiler™ Express					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
MPCK9Z	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
MX689R	Identifiler® Plus					
		22,22		15,17	13,13	
2	9,10	12,15			12,12	11,12
	13,17	14,16.2	28,31.2		X,Y	7,9
	21,30.2				6,7	10,11
	15,15					
MX8UTQ	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			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

NAFYCR	Identifiler®					
		22		15,17	13	
2		9,10	12,15		12	11,12
		13,17	14,16.2	28,31.2	X,Y	7,9
		21,30.2			6,7	10,11
		15				
NGEL27	GlobalFiler™					
		16.3,18.3	22,22	10,10	15,17	13,13
2		9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20,20	6,7
		15,15	10			2
NKUY3T	PowerPlex® Fusion					
		16.3,18.3	22	10	15,17	13
2		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2	9,14	10,17		6,7
		15	10			
NLC4KR	GlobalFiler™					
		16.3,18.3	22	10	15,17	13
2		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
P434XM	Identifiler® Plus					
			22,22		15,17	13,13
2		9,10	12,15			12,12
		13,17	14,16.2	28,31.2		X,Y
		21,30.2				6,7
		15,15				10,11
P7T64A	GlobalFiler™					
		16.3,18.3	22	10	15,17	13
2		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
PCKECM	PowerPlex® 21					
		16.3,18.3	22,22		15,17	13,13
2		9,10	12,15		17,21	12,12
		13,17	14,16.2	28,31.2		X,Y
		21,30.2	9,14	10,17		6,7
		15,15				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 2 - STR Results

PJJEV6	GlobalFiler™					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
PW6CUY	Investigator® 24plex					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
Q8KJ7T	Investigator® 24plex					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
QBX3V9	PowerPlex® Fusion 6C					
	16,3,18.3	22,22	10,10	15,17	13,13	Not Tested
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17	Not Tested	
QKLUH2	PowerPlex® Fusion 6C					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
QLK2LE	Investigator® 24plex					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
R6RGQC	GlobalFiler™					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			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

R8HFR9	GlobalFiler™					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
RLFXU9	Investigator® 24plex GO!					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10				
RLFYCZ	GlobalFiler™					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
RLZK7B	Identifiler® Direct					
	-	22	-	15,17	13	-
2	9,10	12,15	-	-	12	11,12
	13,17	14,16.2	28,31.2	-	X,Y	7,9
	21,30.2	-	-	-	6,7	10,11
	15	-	-	-	-	
RRNQXX	Investigator® 24plex					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
RTX8ZW	PowerPlex® Fusion 6C, Investigator® 24plex HDplex (DNASat)					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20	6,7	10,11
	15	10	17	17		
RY37BL	QIAamp® DNA Investigator Kit					
		22,22		15,17	13,13	
2	9,10	12,15			12,12	11,12
	13,17	14,16.2	28,31.2		X,Y	7,9
	21,30.2				6,7	10,11
	15,15					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

T4VN7D	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
T6RELK	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
T7H87P	Identifiler® ID+, PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
TG49UC	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
TNZ237	Investigator® 24plex GO!					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10				
TYHU7L	PowerPlex® Fusion					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				
U9KCGN	PowerPlex® ESX-17					
	16.3,18.3	22	10	15,17		
2		12,15	13,17	17,21		11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	
	21,30.2			20	6,7	
	15					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

UDVHWW	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
UEN2T8	PowerPlex® Fusion					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15,15	10				
UJPD3A	PowerPlex® Fusion					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				
URXFCU	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
UUN9XJ	PowerPlex® ESX17, GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
V4PTZC	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
V7W9A4	Investigator® 24plex GO!					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10				



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

VC34T4	Investigator® 24plex GO!					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10				
VE9ZLY	PowerPlex® Fusion 6C					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
VKA9TR	GlobalFiler™ (STRmix)					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
VMZRYE	GlobalFiler™ Express					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
VPQGGR	Investigator® 24plex QS (STRmix)					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
VRR29C	Investigator® 24plex					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
VW3AAG	PowerPlex® Fusion 6C					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	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

VXGE9F	GlobalFiler™ Express					
		16.3,18.3	22	10	15,17	13
	2	9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
VXYMWA	PowerPlex® Fusion 5C					
		16.3,18.3	22,22	10,10	15,17	13,13
	2	9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2	9,14	10,17		6,7
		15,15	10			
VYTW2P	Investigator® 24plex					
		16.3,18.3	22,22	10,10	15,17	13,13
	2	9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20,20	6,7
		15,15	10,10			
WDBG9J	GlobalFiler™					
		16.3,18.3	22	10	15,17	13
	2	9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
WW3MGA	GlobalFiler™					
		16.3,18.3	22,22	10,10	15,17	13,13
	2	9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20,20	6,7
		15,15	10			2
X7KH2	Investigator® 24plex GO!					
		16.3,18.3	22	10	15,17	13
	2	9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			
XBV4UR	Investigator® 24plex (STRmix)					
		16.3,18.3	22	10	15,17	13
	2	9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

XCQ42X	GlobalFiler™					
		16.3,18.3	22,22	10,10	15,17	13,13
	2	9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20,20	6,7
		15,15	10			2
XG7ZY2	GlobalFiler™					
		16.3,18.3	22	10	15,17	13
	2	9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
XHXTGK	Investigator® 24plex					
		16.3,18.3	22,22	10,10	15,17	13,13
	2	9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20,20	6,7
		15,15	10			10,11
XLD3QH	PowerPlex® Fusion					
		16.3,18.3	22	10	15,17	13
	2	9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2	9,14	10,17		6,7
		15	10			10,11
XUCHLH	GlobalFiler™					
		16.3,18.3	22	10	15,17	13
	2	9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
Y6NXRU	PowerPlex® Fusion					
		16.3,18.3	22,22	10,10	15,17	13,13
	2	9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2	9,14	10,17		6,7
		15,15	10			10,11
YAWZJB	GlobalFiler™ Express					
		16.3,18.3	22	10	15,17	13
	2	9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			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

YCMYXA	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
YEA4MC	Identifiler® ID+ (STRmix)					
		22,22		15,17	13,13	
2	9,10	12,15			12,12	11,12
	13,17	14,16.2	28,31.2		X,Y	7,9
	21,30.2				6,7	10,11
	15,15					
YETJLA	Investigator® 24plex					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
YMJ8GC	GlobalFiler™ Express					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
YR3M44	PowerPlex® Fusion					
	16.3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15,15	10				
Z2HBK3	Identifiler® Direct					
	-	22	-	15,17	13	-
2	9,10	12,15	-	-	12	11,12
	13,17	14,16.2	28,31.2	-	X,Y	7,9
	21,30.2	-	-	-	6,7	10,11
	15	-	-	-	-	
Z94PJM	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			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

ZC4ZEM	GlobalFiler™					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
ZEBDWN	Investigator® 24plex					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
ZM6ZWF	PowerPlex® Fusion 6C					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20	6,7	10,11
	15	10	17	17		
ZP8ZT7	GlobalFiler™, Investigator® 24plex					
	16,3,18.3	22,22	10,10	15,17	13,13	
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
ZQKVQC	PowerPlex® 21					
	16,3,18.3	22,22		15,17	13,13	11,12
2	9,10	12,15		17,21	12,12	11,12
	13,17	14,16.2	28,31.2		X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15,15					
ZU2TAF	GlobalFiler™					
	16,3,18.3	22	10	15,17	13	
2	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
ZYU8N	PowerPlex® Fusion 6C, GlobalFiler™					
	16,3,18.3	22,22	10,10	15,17	13,13	Not Tested
2	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17	Not Tested	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

23CGE2	GlobalFiler™					
		13,17	17,25	11,11	14,16	11,12
3		9,9	11,12	13,14	17,19	8,12 9,11
		15,16	12,12	28,31.2	15,17	X,X 12,12
		18,23			11,30.2	7,9.3 8,11
		15,16				
279376	PowerPlex® Fusion 5C					
		13,17	17,25	11,11	14,16	11,12
3		9,9	11,12	13,14	17,19	8,12 9,11
		15,16	12,12	28,31.2	15,17	X,X 12,12
		18,23	9,10	10,12		7,9.3 8,11
		15,16				
227QEE	GlobalFiler™					
		13,17	17,25	11	14,16	11,12
3		9	11,12	13,14	17,19	8,12 9,11
		15,16	12	28,31.2	15,17	X 12
		18,23			11,30.2	7,9.3 8,11
		15,16				
32XW3N	Investigator® 24plex (STRMix)					
		13,17	17,25	11	14,16	11,12
3		9	11,12	13,14	17,19	8,12 9,11
		15,16	12	28,31.2	15,17	X 12
		18,23			11,30.2	7,9.3 8,11
		15,16				
36VDDW	GlobalFiler™					
		13,17	17,25	11	14,16	11,12
3		9	11,12	13,14	17,19	8,12 9,11
		15,16	12	28,31.2	15,17	X 12
		18,23			11,30.2	7,9.3 8,11
		15,16				
3BHK3C	GlobalFiler™					
		13,17	17,25	11,11	14,16	11,12
3		9,9	11,12	13,14	17,19	8,12 9,11
		15,16	12,12	28,31.2	15,17	X,X 12,12
		18,23			11,30.2	7,9.3 8,11
		15,16	Not detected			Not detected
3CEYP6	Investigator® 24plex					
		13,17	17,25	11,11	14,16	11,12
3		9,9	11,12	13,14	17,19	8,12 9,11
		15,16	12,12	28,31.2	15,17	X,X 12,12
		18,23			11,30.2	7,9.3 8,11
		15,16				

TABLE 1

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

## Item 3 - STR Results

3MZLUK	Investigator® 24plex QS (STRmix)					
	13,17	17,25	11,11	14,16	11,12	N/A
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	N/A	N/A	11,30.2	7,9.3	8,11
	15,16		N/A	N/A	N/A	
3P33VF	PowerPlex® ESI 16 Fast					
	13,17	17,25	11,11	14,16		
3		11,12	13,14	17,19		9,11
	15,16	12,12	28,31.2	15,17	X,X	
	18,23				7,9.3	
	15,16					
3TMBEU	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	NT
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NR	NR	NR	NT	
42R3WM	Investigator® 24plex (STRMix)					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
436C8A	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
43NFJF	Investigator® 24plex (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
49RWZB	Identifiler®					
		17,25		14,16	11,12	
3	9,9	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					

TABLE 1

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

## Item 3 - STR Results

4A74LR	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
4A8VGE	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
4DKZN9	PowerPlex® Fusion 6C (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
4FCVWB	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16	Not Detected			Not Detected	
4PW9PE	PowerPlex® ESX, 21 Y Fusion (ABI-HID 3500)					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X,X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
4UQQZQ	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	no results			no results	
6D3UZM	Investigator® 24plex (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					



TABLE 1

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

## Item 3 - STR Results

6F7ZQA	GlobalFiler™					
		13,17	17,25	11	14,16	11,12
3		9	11,12	13,14	17,19	8,12
		15,16	12	28,31.2	15,17	X
		18,23			11,30.2	7,9.3
		15,16				8,11
6HDQ4X	Investigator® 24plex QS					
		13,17	17,25	11	14,16	11,12
3		9	11,12	13,14	17,19	8,12
		15,16	12	28,31.2	15,17	X
		18,23			11,30.2	7,9.3
		15,16				8,11
6N7PHT	PowerPlex® Fusion 6C					
		13,17	17,25	11,11	14,16	11,12
3		9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23	9,10	10,12	11,30.2	7,9.3
		15,16	NR	NR	NR	
6PFUVG	Investigator® 24plex (STRmix)					
		13,17	17,25	11,11	14,16	11,12
3		9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23	NA	NA	11,30.2	7,9.3
		15,16		NA	NA	NA
6VKVUP	PowerPlex® Fusion 6C					
		13,17	17,25	11,11	14,16	11,12
3		9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23	9,10	10,12	11,30.2	7,9.3
		15,16	NR	NR	NR	
7DE6H8	PowerPlex® Fusion 6C					
		13,17	17,25	11,11	14,16	11,12
3		9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23	9,10	10,12	11,30.2	7,9.3
		15,16				8,11
7M4E3F	Investigator® 24plex QS (STRmix)					
		13,17	17,25	11,11	14,16	11,12
3		9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23			11,30.2	7,9.3
		15,16				8,11

TABLE 1

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

## Item 3 - STR Results

7Q2DHU	Identifiler® Plus, MiniFiler					
		17,25		14,16	11,12	
3	9,9	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					
83DFZW	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X,X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
84RJWA	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
89FBZW	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
8EL6R8	PowerPlex® Fusion 5C					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	NR				
8NUZ7Q	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NR	NR	NR		
8RV4XD	Investigator® 24plex (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					

TABLE 1

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

## Item 3 - STR Results

8UFK3Y	GlobalFiler™					
		13,17	17,25	11,11	14,16	11,12
3		9,9	11,12	13,14	17,19	8,12 9,11
		15,16	12,12	28,31.2	15,17	X,X 12,12
		18,23			11,30.2	7,9.3 8,11
		15,16				
93MTW6	GlobalFiler™					
		13,17	17,25	11,11	14,16	11,12
3		9,9	11,12	13,14	17,19	8,12 9,11
		15,16	12,12	28,31.2	15,17	X,X 12,12
		18,23			11,30.2	7,9.3 8,11
		15,16	N.D.			N.D.
96DN68	GlobalFiler™					
		13,17	17,25	11	14,16	11,12
3		9	11,12	13,14	17,19	8,12 9,11
		15,16	12	28,31.2	15,17	X 12
		18,23			11,30.2	7,9.3 8,11
		15,16				
98HBJW	PowerPlex® Fusion 5C					
		13,17	17,25	11	14,16	11,12
3		9	11,12	13,14	17,19	8,12 9,11
		15,16	12	28,31.2	15,17	X 12
		18,23	9,10	10,12		7,9.3 8,11
		15,16				
9E4DK8	PowerPlex® Fusion 6C					
		13,17	17,25	11	14,16	11,12
3		9	11,12	13,14	17,19	8,12 9,11
		15,16	12	28,31.2	15,17	X 12
		18,23	9,10	10,12	11,30.2	7,9.3 8,11
		15,16				
9LKRLR	PowerPlex® Fusion 5C					
		13,17	17,25	11,11	14,16	11,12
3		9,9	11,12	13,14	17,19	8,12 9,11
		15,16	12,12	28,31.2	15,17	X,X 12,12
		18,23	9,10	10,12		7,9.3 8,11
		15,16				
9PKZU9	PowerPlex® Fusion 6C (TrueAllele)					
		13,17	17,25	11	14,16	11,12
3		9	11,12	13,14	17,19	8,12 9,11
		15,16	12	28,31.2	15,17	X 12
		18,23	9,10	10,12	11,30.2	7,9.3 8,11
		15,16				

TABLE 1

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

## Item 3 - STR Results

9RQG87	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
9VPKMC	Investigator® 24plex (STRmix)					
	13,17	17,25	11,11	14,16	11,12	NA
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	XX	12,12
	18,23	NA	NA	11,30.2	7,9.3	8,11
	15,16		NA	NA	NA	
A27YUA	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	NR			NR	
A4F2HU	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	XX	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
A68ZWR	Identifiler® Plus					
		17,25		14,16	11,12	
3	9	11,12			8,12	9,11
	15,16	12	28,31.2		XX	12
	18,23				7,9.3	8,11
	15,16					
ALK22V	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	XX	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
AYMTHU	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					

TABLE 1

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

## Item 3 - STR Results

AYQMDE	GlobalFiler™ (STRmix)					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
B8CBJZ	Identifiler® Plus					
		17,25		14,16	11,12	
3	9,9	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					
BBTCBK	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
BGZ28D	Investigator® 24plex (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
BKHZ43	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16	Not detected			Not detected	
BL92AQ	Identifiler® Plus					
		17,25		14,16	11,12	
3	9	11,12			8,12	9,11
	15,16	12	28,31.2		X,X	12
	18,23				7,9.3	8,11
	15,16					
BLD4RN	GlobalFiler™ (STRmix)					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					

TABLE 1

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

## Item 3 - STR Results

BREXTQ	Identifiler® Plus (in house software)					
		17,25		14,16	11,12	
3	9,9	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					
BRZAW6	PowerPlex® Fusion 6C					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
CDYXYK	PowerPlex® Fusion 5C					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
CH7LCM	Identifiler® ID/ID Plus, GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16	No Results			No Results	
D6EGJG	Identifiler® Plus, PowerPlex® Fusion5C					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
D6MLED	Investigator® 24plex					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	INC				
DATTJ4	PowerPlex® Fusion					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	NR				

TABLE 1

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

## Item 3 - STR Results

DAUCGJ	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NR	NR	NR		
DFYP44	PowerPlex® Fusion					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	NR				
DMXCWN	Identifiler® Plus					
		17,25		14,16	11,12	
3	9	11,12			8,12	9,11
	15,16	12	28,31.2		X,X	12
	18,23				7,9.3	8,11
	15,16					
DP9HPX	PowerPlex® ESX16 fast					
	13,17	17,25	11	14,16		
3		11,12	13,14	17,19		9,11
	15,16	12	28,31.2	15,17	X	
	18,23				7,9.3	
	15,16					
DUFJX2	Identifiler®					
		17,25		14,16	11,12	
3	9,9	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					
DVXXJB	Investigator® 24plex (STRmix)					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
DXFECF	PowerPlex® Fusion					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					

TABLE 1

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

## Item 3 - STR Results

E6WARA	Investigator® 24plex QS (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
EANGBJ	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NR	NR	NR		
EEHEXN	PowerPlex® Fusion					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	ND				
EGAPZX	PowerPlex® Fusion 5C					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
EN8Z68	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
EXCQDW	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	No Results			No Results	
EY4PRU	PowerPlex® Fusion 5					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					



TABLE 1

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

## Item 3 - STR Results

EYMJDQ	PowerPlex® Fusion					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X,X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
F4GBB7	Investigator® 24plex QS (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
F4GMWW	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	No Results			No Results	
FAH482	PowerPlex® Fusion					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	NR				
FBFXZK	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
FKMD9E	PowerPlex® Fusion					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
FWVRZY	Identifiler®					
		17,25		14,16	11,12	
3	9,9	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					

TABLE 1

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

## Item 3 - STR Results

G8CZWQ	GlobalFiler™					
		13,17	17,25	11,11	14,16	11,12
3		9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23			11,30.2	7,9.3
		15,16				8,11
G99EJJ	NGM SElect					
		13,17	17,25	11,11	14,16	
3			11,12	13,14	17,19	9,11
		15,16	12,12	28,31.2	15,17	X,X
		18,23			11,30.2	7,9.3
		15,16				
GLDXEA	Investigator® 24plex (STRmix)					
		13,17	17,25	11	14,16	11,12
3		9	11,12	13,14	17,19	8,12
		15,16	12	28,31.2	15,17	X
		18,23			11,30.2	7,9.3
		15,16				8,11
GMA4KQ	GlobalFiler™					
		13,17	17,25	11,11	14,16	11,12
3		9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23			11,30.2	7,9.3
		15,16	--			--
GTA8N3	GlobalFiler™					
		13,17	17,25	11	14,16	11,12
3		9	11,12	13,14	17,19	8,12
		15,16	12	28,31.2	15,17	X
		18,23			11,30.2	7,9.3
		15,16	NR			NR
H23TFM	GlobalFiler™					
		13,17	17,25	11	14,16	11,12
3		9	11,12	13,14	17,19	8,12
		15,16	12	28,31.2	15,17	X,X
		18,23			11,30.2	7,9.3
		15,16				8,11
H6434A	PowerPlex® Fusion 5C					
		13,17	17,25	11,11	14,16	11,12
3		9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23	9,10	10,12		7,9.3
		15,16				8,11

TABLE 1

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

## Item 3 - STR Results

H89VVM	PowerPlex® PP16					
				14,16	11,12	
3	9,9	11,12			8,12	9,11
	15,16		28,31.2		X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
HAGYRJ	Investigator® 24plex (STR mix)					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
HF7RCC	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	No Results			No Results	
HL9XRF	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NR	NR	NR		
HX2ZU	PowerPlex® Fusion 6C (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
HYWENM	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16	No Results				
HYXUTD	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NR	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

JB7EVZ	PowerPlex® Fusion					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
JKDDH	Investigator® 24plex (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
JM2939	Investigator® 24plex (STRMix)					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
JNBUGV	PowerPlex® Fusion					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	NR				
JRB4PC	PowerPlex® Fusion 5C					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	No Results				
JVT7UW	PowerPlex® Fusion 5C					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	NR				
JXGZQH	Investigator® 24plex QS					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					

TABLE 1

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

## Item 3 - STR Results

K7AV48	Investigator® 24plex (STRMix)					
		13,17	17,25	11	14,16	11,12
	3	9	11,12	13,14	17,19	8,12
		15,16	12	28,31.2	15,17	X
		18,23			11,30.2	7,9.3
	15,16				8,11	
<hr/>						
K7RCAF	Investigator® 24plex (STRmix)					
		13,17	17,25	11,11	14,16	11,12
	3	9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23			11,30.2	7,9.3
	15,16				8,11	
<hr/>						
KFU2ZB	PowerPlex® Fusion 6C					
		13,17	17,25	11,11	14,16	11,12
	3	9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23	9,10	10,12	11,30.2	7,9.3
	15,16	NR	NR	NR	8,11	
<hr/>						
KG829L	GlobalFiler™					
		13,17	17,25	11,11	14,16	11,12
	3	9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23			11,30.2	7,9.3
	15,16				8,11	
<hr/>						
KJK8X	PowerPlex® Fusion 6C					
		13,17	17,25	11,11	14,16	11,12
	3	9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23	9,10	10,12	11,30.2	7,9.3
	15,16				8,11	
<hr/>						
KTPKTH	Investigator® 24plex (STRMix)					
		13,17	17,25	11,11	14,16	11,12
	3	9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23			11,30.2	7,9.3
	15,16				8,11	
<hr/>						
KVMBNV	PowerPlex® Fusion					
		13,17	17,25	11	14,16	11,12
	3	9	11,12	13,14	17,19	8,12
		15,16	12	28,31.2	15,17	X
		18,23	9,10	10,12		7,9.3
	15,16	NR			8,11	

TABLE 1

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

## Item 3 - STR Results

L8X3RV	PowerPlex® Fusion					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	NR				
L9CH8H	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X,X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
LBZ27U	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
LCURAN	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	No results			No results	
LN4T3D	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
LNPLGW	Investigator® 24plex (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
LR8XM9	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					

TABLE 1

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

## Item 3 - STR Results

LTZEUG	GlobalFiler™ (STRMIX)					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
LV7VX	Investigator® 24plex (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
LWFJAK	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	Not Tested
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	Not Tested	Not Tested	11,30.2	7,9.3	8,11
	15,16	No Results	Not Tested	Not Tested	Not Tested	
LWHB68	Identifiler®					
	Not Tested	17,25	Not Tested	14,16	11,12	Not Tested
3	9,9	11,12	Not Tested	Not Tested	8,12	9,11
	15,16	12,12	28,31.2	Not Tested	X,X	12,12
	18,23	Not Tested	Not Tested	Not Tested	7,9.3	8,11
	15,16	Not Tested	Not Tested	Not Tested	Not Tested	
LXA8RF	Identifiler® Plus					
		17,25		14,16	11,12	
3	9	11,12			8,12	9,11
	15,16	12	28,31.2		X,X	12
	18,23				7,9.3	8,11
	15,16					
M2CV2G	PowerPlex® Fusion					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
M8AC4T	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					

TABLE 1

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

## Item 3 - STR Results

M8UJDX	Investigator® 24plex (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
MCBQZC	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
MDJ2RA	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NR	NR	NR		
MJ69GN	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	NR			NR	
MPCK9Z	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
MX689R	Identifiler® Plus					
		17,25		14,16	11,12	
3	9,9	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					
MX8UTQ	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16	N.D.			N.D.	



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

NAFYCR	Identifiler®					
		17,25		14,16	11,12	
3	9	11,12			8,12	9,11
	15,16	12	28,31.2		X	12
	18,23				7,9.3	8,11
	15,16					
NGEL27	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16	No Results				
NKUY3T	PowerPlex® Fusion					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	NR				
NLC4KR	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
P434XM	Identifiler® Plus					
		17,25		14,16	11,12	
3	9,9	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					
P7T64A	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
PCKECM	PowerPlex® 21 (STRmix)					
	13,17	17,25		14,16	11,12	12,16
3	9,9	11,12		17,19	8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					

TABLE 1

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

## Item 3 - STR Results

PJJEV6	PowerPlex® Fusion 5C					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
PW6CUY	Investigator® 24plex (STRmix V2.4.06)					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
Q8KJ7T	Investigator® 24plex (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
QBX3V9	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	Not Tested
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	No Results	No Results	No Results	Not Tested	
QKLUH2	Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16	No Results				
QLK2LE	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16	No Results			No Results	
R6RGQC	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					

TABLE 1

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

## Item 3 - STR Results

R8HFR9	GlobalFiler™					
		13,17	17,25	11	14,16	11,12
	3	9	11,12	13,14	17,19	8,12
		15,16	12	28,31.2	15,17	X
		18,23			11,30.2	7,9.3
		15,16	NR			NR
RLFYCZ	GlobalFiler™					
		13,17	17,25	11,11	14,16	11,12
	3	9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23			11,30.2	7,9.3
		15,16				
RLZK7B	Identifiler® Plus					
		-	17,25	-	14,16	11,12
	3	9	11,12	-	-	8,12
		15,16	12	28,31.2	-	X,X
		18,23	-	-	-	7,9.3
		15,16	-	-	-	-
RRNQXX	Investigator® 24plex (STRmix)					
		13,17	17,25	11,11	14,16	11,12
	3	9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23			11,30.2	7,9.3
		15,16				
RTX8ZW	PowerPlex® Fusion 6C, Investigator® 24plex HDplex (DNASTat)					
		13,17	17,25	11	14,16	11,12
	3	9	11,12	13,14	17,19	8,12
		15,16	12	28,31.2	15,17	X
		18,23	9,10	10,12	11,30.2	7,9.3
		15,16				
RY37BL	QIAamp® DNA Investigator Kit					
			17,25		14,16	11,12
	3	9,9	11,12			8,12
		15,16	12,12	28,31.2		X,X
		18,23				7,9.3
		15,16				
T4VN7D	GlobalFiler™					
		13,17	17,25	11,11	14,16	11,12
	3	9,9	11,12	13,14	17,19	8,12
		15,16	12,12	28,31.2	15,17	X,X
		18,23			11,30.2	7,9.3
		15,16				

TABLE 1

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

## Item 3 - STR Results

T6RELK	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
T7H87P	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
TG49UC	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X,X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	-			-	
TYHU7L	PowerPlex® Fusion					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	NR				
U9KCGN	PowerPlex® ESX-17					
	13,17	17,25	11	14,16		
3		11,12	13,14	17,19		9,11
	15,16	12	28,31.2	15,17	X	
	18,23			11,30.2	7,9.3	
	15,16					
UEN2T8	PowerPlex® Fusion					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
URXFCU	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					

TABLE 1

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

## Item 3 - STR Results

UUN9XJ	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16	Not Detected			Not Detected	
V4PTZC	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
VE9ZLY	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16	NR	NR	NR		
VKA9TR	GlobalFiler™ (STRmix)					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
VMZRYE	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	no results			no results	
VPQGGR	Investigator® 24plex QS (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
VRR29C	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					

TABLE 1

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

## Item 3 - STR Results

WV3AAG	PowerPlex® Fusion 6C					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
VXGE9F	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	NR			NR	
VXYMWA	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16	No Results			No Results	
VYTW2P	Investigator® 24plex (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
WDBG9J	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
WW3MGA	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
XBV4UR	Investigator® 24plex (STRmix)					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					

TABLE 1

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

## Item 3 - STR Results

XCQ42X	GlobalFiler™						
		13,17	17,25	11,11	14,16	11,12	
	3	9,9	11,12	13,14	17,19	8,12	9,11
		15,16	12,12	28,31.2	15,17	X,X	12,12
		18,23			11,30.2	7,9.3	8,11
	15,16						
XG7ZY2	GlobalFiler™						
		13,17	17,25	11	14,16	11,12	
	3	9	11,12	13,14	17,19	8,12	9,11
		15,16	12	28,31.2	15,17	X	12
		18,23			11,30.2	7,9.3	8,11
	15,16						
XHXTGK	PowerPlex® Fusion						
		13,17	17,25	11,11	14,16	11,12	
	3	9,9	11,12	13,14	17,19	8,12	9,11
		15,16	12,12	28,31.2	15,17	X,X	12,12
		18,23	9,10	10,12		7,9.3	8,11
	15,16						
XLD3QH	PowerPlex® Fusion						
		13,17	17,25	11	14,16	11,12	
	3	9	11,12	13,14	17,19	8,12	9,11
		15,16	12	28,31.2	15,17	X	12
		18,23	9,10	10,12		7,9.3	8,11
	15,16	NR					
XUCHLH	GlobalFiler™						
		13,17	17,25	11	14,16	11,12	
	3	9	11,12	13,14	17,19	8,12	9,11
		15,16	12	28,31.2	15,17	X	12
		18,23			11,30.2	7,9.3	8,11
	15,16						
Y6NXRU	PowerPlex® Fusion						
		13,17	17,25	11,11	14,16	11,12	
	3	9,9	11,12	13,14	17,19	8,12	9,11
		15,16	12,12	28,31.2	15,17	X,X	12,12
		18,23	9,10	10,12		7,9.3	8,11
	15,16						
YAWZJB	GlobalFiler™						
		13,17	17,25	11	14,16	11,12	
	3	9	11,12	13,14	17,19	8,12	9,11
		15,16	12	28,31.2	15,17	X	12
		18,23			11,30.2	7,9.3	8,11
	15,16	NR			NR		

TABLE 1

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

## Item 3 - STR Results

YCMYXA	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
YEA4MC	Identifiler® ID+ (STRmix)					
		17,25		14,16	11,12	
3	9,9	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					
YETJLA	PowerPlex® 16					
				14,16	11,12	
3	9,9	11,12			8,12	9,11
	15,16		28,31.2		X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
YMJ8GC	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	NR			NR	
YR3M44	PowerPlex® Fusion					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
Z2HBK3	Identifiler® Plus					
	-	17,25	-	14,16	11,12	-
3	9	11,12	-	-	8,12	9,11
	15,16	12	28,31.2	-	X,X	12
	18,23	-	-	-	7,9.3	8,11
	15,16	-	-	-	-	
Z94PJM	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					



TABLE 1

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

## Item 3 - STR Results

ZC4ZEM	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16					
ZEBDWN	Investigator® 24plex (STRmix)					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
ZM6ZWF	PowerPlex® Fusion 6C					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16					
ZP8ZT7	GlobalFiler™, Investigator® 24plex					
	13,17	17,25	11,11	14,16	11,12	
3	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
ZQKVQC	PowerPlex® 21					
	13,17	17,25		14,16	11,12	12,16
3	9,9	11,12		17,19	8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16					
ZU2TAF	GlobalFiler™					
	13,17	17,25	11	14,16	11,12	
3	9	11,12	13,14	17,19	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	7,9.3	8,11
	15,16	NR			NR	

TABLE 1

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

## Item 3e - STR Results

6WD2HQ PowerPlex® PPF-5C

	13,17	17,25	11,11	14,16	11,12	
3e	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12		7,9.3	8,11
	15,16	No Results				

87Q6HK GlobalFiler™

	13,17	17,25	11,11	14,16	11,12	
3e	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					

TABLE 1

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

Item 3sp - STR Results

6WD2HQ	PowerPlex® PPF-5C					
	17	17,25	11	14	11,12	
3sp	No Results	11,12	No Results	17	8,12	9
	15	12	31.2	No Results	X	No Results
	18,23	No Results	10,12		No Results	No Results
	No Results	No Results				

87Q6HK	GlobalFiler™					
	17,---	25,---	11,---	14,16	11,12	
3sp	9,---	11,12	13,14	19,---	8,12	
	15,16	12,---	28,31.2	15,---	X,---	12,---
	18,23			11,30.2	9.3,---	8,11

TABLE 1

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

## Item 4 - STR Results

436C8A

	[13],16.3,[17],18.3	[17],22,[25]	10,[11]	[14],15,[16],17	[11],13	
4	9,10	[11],12,15	13,[14],17	17,[19],21	[8],12	[9],11,12
	13,[15],[16],17	12,14,16.2	28,31.2	14,15,[17]	X,Y	7,9,12
	[18],21,[23],30.2			[11],20,[30.2]	6,7,[9.3]	[8],10,11
	15,[16]	10			2	

RTX8ZW

PowerPlex® Fusion 6C, Investigator® 24plex HDplex (LRmixStudio)

	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17	11,20,30.2	6,7,9.3	8,10,11
	15,16	10	17	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 4e - STR Results

23CGE2	GlobalFiler™					
		13,17,[(18.3)]	17,22',25'	[10],11	14,[(15)],16,[(17)]	11,12,[(13)]
4e		9,9,[(10)]	11,12,[15]	13,14,[(17)]	17,19,[(21)]	8,12
		[(13)],15,16,[(17)]	12,12,[(14)],[(16.2)]	28,31.2	15,17	X,X,[Y]
		18,[(21)],23,[(30.2)]			11,[20],30.2	[(7)],[9],12,12
		15,16	(10)			'8',[(10)],11
						(2)
279376	PowerPlex® Fusion 5C					
		13,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13
4e		9,10	11,12,15	13,14,17	17,19,21	8,12
		13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y
		18,21,23,30.2	9,10,14	10,12,17		6,7,9.3
		15,16	10			8,10,11
227QEE	GlobalFiler™					
		13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13
4e		9	11,12,15	13,14,17	17,19,21	8,12
		13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y
		18,21,23,30.2			11,20,30.2	6,7,9.3
		15,16	10			8,10,11
						2
32XW3N	Investigator® 24plex (STRMix)					
		13,16.3,17	17,22,25	10,11	14,16,17	11,12,13
4e		9	11,12	13,14	17,19,21	8,12
		15,16,17	12,16.2	28,31.2	14,15,16,17	X
		18,21,23			11,20,30.2	6,7,9.3
		15,16				8,10,11
36VDDW	GlobalFiler™					
		13,17,18.3	17,22,25	11	14,16,17	11,12,13
4e		9,10	11,12,15	13,14,17	17,19,21	8,12
		13,15,16	12,14	28,31.2	15,17	X,Y
		18,21,23,30.2			11,20,30.2	6,7,9.3
		15,16	10			8,10,11
						2
3BHK3C	GlobalFiler™					
		13,17,[18.3]	17,[22],25	11,11	14,16,[17]	11,12,[13]
4e		9,9	11,12,[15]	13,14	17,19	8,12
		15,16,[17]	12,12,[16.2]	28,31.2	15,17	X,X,[Y]
		18,[21],23,[30.2]			11,[20],30.2	[9],12,12
		15,16	10			8,11
						2
3CEYP6	Investigator® 24plex					
		13,17,18.3	17,22,25	11,11	14,16	11,12
4e		9,9	11,12,15	13,14	17,19	8,12
		13,15,16,17	12,14,16.2	28,31.2	15,17	X,X
		18,21,23,30.2			11,20,30.2	6,7,9.3
		15,16				8,10,11

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 4e - STR Results

3MZLUK	Investigator® 24plex QS (STRmix)					
	13,16,17	17,22,25	10,11	14,15,16	11,12,13	N/A
4e	9,10	11,12	13,14,17	17,18,19,21	8,12	9,11
	13,15,16,17	12	28,31.2	15,17	X,Y	12
	18,23	N/A	N/A	11,20,30.2	6,7,9.3	8,10,11
	15,16	10	N/A	N/A	N/A	
3P33VF	PowerPlex® ESI 16 Fast					
	13,17	17,[22],25	[10],11,11	14,[15],16		
4e		11,12	13,14	17,19		9,11
	[13],15,16	12,12	28,31.2	15,17	X,X	
	18,[21],23,[30.2]				7,9.3	
	15,16					
3TMBEU	PowerPlex® Fusion 6C					
	13,[16.3],17,[18.3]	17,[22],25	[10],11	14,[15],16,[17]	11,12,[13]	NT
4e	9,[10]	11,12,[15]	13,14,[17]	17,19,[21]	8,12	9,11,[12]
	[13],15,16,[17]	12,[14],[16.2]	28,31.2	[14],15,17	X,Y	[7],[9],12
	18,[21],23,[30.2]	9,10,[14]	10,12,[17]	11,[20],30.2	[6],7,9.3	8,[10],11
	15,16	[10]	[17]	[17]	NT	
42R3WM	Investigator® 24plex (STRMix)					
	12,13,16,17,18.3	17,22,24,25	10,11	13,14,15,16,17	11,12,13	
4e	9,10	10,11,12,13,15	12,13,14,17	16,17,18,19,21	8,12	9,10,11,12
	13,14,15,16,17	12,14,16.2	27,28,30.2,31.2	14,15,16,17,18	X,Y	7,9,12
	18,21,23,30.2			11,20,29.2,30.2	6,7,9.3	8,10,11
	14,15,16	10				
43NFJF	Investigator® 24plex (STRmix)					
	13,17,18.3	22,25	10,11	14,16	11,12	
4e	9	11,12	13,14	17,19,21	8,12	9,11
	13,15,16,17	12	28,31.2	15,16,17	X,Y	12
	18,21,23			11,20,30.2	6,7,9.3	8,10,11
	15,16	10				
49RWZB	Identifiler®					
		17,22,25		14,15,16,17	11,12,13	
4e	9,10	11,12,15			8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2		X,Y	7,9,12
	18,21,23,30.2				6,7,9.3	8,10,11
	15,16					
4A74LR	PowerPlex® Fusion 6C					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17	11,20,30.2	6,7,9.3	8,10,11
	15,16	10	17	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 4e - STR Results

4A8VGE	GlobalFiler™					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
4DKZN9	PowerPlex® Fusion 6C (STRmix)					
	13,17	17,25	[10],11,11	14,[15],16	11,12	
4e	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,[20],30.2	7,9.3	8,11
	15,16			17		
4FCVWB	GlobalFiler™					
	13,[16.3],17,[18.3]	17,[22],25	[10],11,11	14,16,[17]	11,12,[13]	
4e	9,9,[10]	11,12,[15]	13,14,[17]	17,19,[21]	8,12	9,11,[12]
	[13],15,16,[17]	12,12,[14],[16.2]	28,31.2	15,17	X,X,[Y]	[7],[9],12,12
	18,[21],23,[30.2]			11,[20],30.2	[6],7,9.3	8,[10],11
	15,16	10			2	
4PW9PE	PowerPlex® PPESX, PP21 Y Fusion (ABI-HID 3500)					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17		6,7,9.3	8,10,11
	15,16					
4UQQZQ	GlobalFiler™					
	13,(16.3),17,(18.3)	17,22,25	10,11	14,(15),16,(17)	11,12,13	
4e	9,(10)	11,12,(15)	13,14,(17)	17,19,(21)	8,12	9,11,(12)
	(13),15,16,(17)	12,(14,16.2)	28,31.2	14,15,17	X,(Y)	(7,9),12
	18,(21),23,(30.2)			11,20,30.2	(6),7,9.3	8,(10),11
	15,16	(10)			(2)	
6D3UZM	Investigator® 24plex (STRmix)					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,10,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,16,17,18	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10				
6F7ZQA	GlobalFiler™					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			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

6HDQ4X	Investigator® 24plex QS					
	13,16.3,17,[18.3]	17,22,25	10,11	14,[15],16,[17]	11,12,13	
4e	9,[10]	11,12,[15]	13,14,17	17,19,21	8,12	9,11,[12]
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,[21],23,[30.2]			11,20,30.2	6,7,9.3	8,10,11
	15,16	10				
6N7PHT	PowerPlex® Fusion 6C					
	13,17,[18.3]	17,[22],25	[10],11	14,[15],16,[17]	11,12	
4e	9,[10]	11,12,[15]	13,14	17,19	8,12	9,11,[12]
	[13],15,16,[17]	12	28,31.2	[14],15,17	X,[Y]	[7],12
	18,[21],23,[30.2]	9,10	10,12,[17]	11,[20],30.2	7,9.3	8,11
	15,16	[10]	NR	[17]		
6PFUUG	Investigator® 24plex (STRmix)					
	13,18.3	22,25	10,11	15	11,12,13	NA
4e	9,10		13,17	21	12	9,11,12
	13,16,17	12,16.2	28,31.2	14,15	X	9,12
	18,30.2	NA	NA	20	6,7	8,11
	15	10	NA	NA	NA	
6VKVUP	PowerPlex® Fusion 6C					
	13,[16.3],17	17,[22],25	[10],11	14,[15],16	11,12,[13]	
4e	9,9	11,12,[15]	13,14	17,19,[21]	8,12	9,11,[12]
	15,16	12,12	28,31.2	15,17	X,[Y]	[9],12
	18,23	9,10	10,12	11,[20],30.2	7,9.3	8,11
	15,16	[10]	NR	NR		
6WD2HQ	PowerPlex® PPF-5C					
	13,16.3,17,18.3	17,22,25	10,11	14,16	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17		6,7,9.3	8,10,11
	15,16	10				
77UV23	GlobalFiler™					
	13,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
7DE6H8	PowerPlex® Fusion 6C (STRmix)					
	13,17,18.3	17,22,25	10,11	14,16	11,12,13	
4e	9	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17	11,20,30.2	6,7,9.3	8,10,11
	15,16	10	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 4e - STR Results

7M4E3F	Investigator® 24plex QS (STRmix)					
	12,13,16,17	17,22,25	10,11	14,15,16,17	11,12,13	
4e	8,9,10	10,11,12,15	12,13,14,17	16,17,18,19	8,11,12	9,11,12
	13,15,16,17	11,12,14	27,28,30.2,31.2	14,15,16,17	X,Y	7,9,12
	18,21,23,30.2			11,20,29.2,30.2	6,7,9.3	8,10,11
	15,16	10				
7Q2DHU	Identifiler® Plus, MiniFiler					
		17,22,25		14,15,16,17	11,12	
4e	9,10	11,12,15			8,12	9,11,12
	13,15,16,17	12,12	28,31.2		X,Y	7,9,12
	18,21,23,30.2				7,9.3	8,11
	15,16					
83DFZW	GlobalFiler™					
	13,[16.3],17,[18.3]	17,[22],25	[10],11	14,[15],16,[17]	11,12,[13]	
4e	9,[10]	11,12,[15]	13,14,[17]	17,19,[21]	8,12	9,11,[12]
	[13],15,16,[17]	12,[14],[16.2]	28,31.2	[14],15,17	X,[Y]	[7],[9],12
	18,[21],23,[30.2]			11,[20],30.2	[6],7,9.3	8,[10],11
	15,16	10			2	
84RJWA	GlobalFiler™					
	13,[16.3],17,[18.3]	17,22,25	[10],11	14,[15],16,[17]	11,12,13	
4e	9,[10]	11,12,[15]	13,14,[17]	17,19,[21]	8,12	9,11,[12]
	[13],15,16,[17]	12,[14,16.2]	28,31.2	14,15,17	X,[Y]	[7,9],12
	18,[21],23,[30.2]			11,20,30.2	6,7,9.3	8,10,11
	15,16	[10]			[2]	
87Q6HK	GlobalFiler™					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
89FBZW	GlobalFiler™					
	13,17,[18.3]	17,22,25	[10],11,11	14,[15],16,[17]	11,12,[13]	
4e	9,9,[10]	11,12,[15]	13,14,[17]	17,[19],[21]	8,12	9,11,[12]
	[13],15,16,[17]	12,12,[14],[16.2]	28,31.2	[14],15,[17]	X,X,[Y]	[(7)],[(9)],12,12
	18,[21],23,[30.2]			11,[20],30.2	[(6)],7,9.3	8,[(10)],11
	15,16	(10)			'2'	
8EL6R8	PowerPlex® Fusion 5C					
	13,17	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,16.2	28,31.2	15,17	X,Y	7,9,12
	18,21,23,30.2	9,10	10,12		6,7,9.3	8,10,11
	15,16	10				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

8NUZ7Q	PowerPlex® Fusion 6C					
	13,[16.3],17,[18.3]	[17],[22],[25]	[10],[11]	14,[15],16,[17]	11,12,[13]	
4e	9,[10]	11,12,[15]	13,14,[17]	17,19,[21]	8,12	9,11,[12]
	[13],15,16,[17]	12,[14],[16.2]	28,31.2	[15],[17]	X,[Y]	[7],[9],12
	18,[21],23,[30.2]	9,10,[14]	10,12,[17]	11,[20],30.2	[6],[7],[9.3]	8,[10],11
	15,16	[10]	[17]	[17]		
8RV4XD	Investigator® 24plex (STRmix)					
	13,17,18.3	22,25	10,11	14,16	11,12	
4e	9	11,12	13,14	17,19,21	8,12	9,11
	13,15,16,17	12	28,31.2	15,16,17	X,Y	12
	18,21,23			11,20,30.2	6,7,9.3	8,10,11
	15,16	10				
8U2TX2	GlobalFiler™					
	13,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	Not Tested
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2	Not Tested	Not Tested	11,20,30.2	6,7,9.3	8,10,11
	15,16	10	Not Tested	Not Tested	2	
8UFK3Y	GlobalFiler™					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
93MTW6	GlobalFiler™					
	13,(16.3),17	17,(22),25	(10),11,11	14,16,(17)	11,12,(13)	
4e	9,9,(10)	11,12,(15)	13,14,(17)	17,19,(21)	8,12	9,11
	(13),15,16,(17)	12,12,(14,16.2)	28,31.2	(14),15,17	X,X,(Y)	(7,9),12,12
	18,(21),23,(30.2)			11,(20),30.2	(6),7,9.3	8,(10),11
	15,16	10			2	
96DN68	GlobalFiler™					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
98HBJW	PowerPlex® Fusion 5C					
	13,17,(18.3)	17,(22),25	(10),11	14,(15),16,(17)	11,12,(13)	
4e	9,(10)	11,12,(15)	13,14,(17)	17,19,(21)	8,12	9,11,(12)
	(13),15,16,(17)	12,(14,16.2)	28,31.2	15,17	X,(Y)	(7,9),12
	18,(21),23,(30.2)	9,10,(14)	10,12		(6),7,9.3	8,(10),11
	15,16	(10)				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

9E4DK8	PowerPlex® Fusion 6C					
	13,[16.3],17,[18.3]	17,[22],25	[10],11	14,[15],16,[17]	11,12,[13]	
4e	9,[10]	11,12,[15]	13,14,[17]	17,19,[21]	8,12	9,11,[12]
	[13],15,16,[17]	12,[14,16.2]	28,31.2	[14],15,17	X,[Y]	[7],[9],12
	18,[21],23,[30.2]	9,10,[14]	10,12,[17]	11,[20],30.2	[6],7,9.3	8,[10],11
	15,16	[10]	[17]	[17]		
9LKRLR	PowerPlex® Fusion 5C					
	13,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,16,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17		6,7,9.3	8,10,11
	15,16	10				
9PKZU9	PowerPlex® Fusion 6C (TrueAllele)					
	13,17,18.3	17,22,25	11	14,16	11,12	
4e	9	11,12	13,14,17	17,19	8,12	9,11,12
	13,15,16,17	12,16.2	28,31.2	15,17	X,Y	12
	18,21,23	9,10	10,12	11,30.2	7,9.3	8,11
	15,16		17	17		
9RQG87	GlobalFiler™					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
9VPKMC	Investigator® 24plex (STRmix)					
	13,17	17,22,25	10,11	14,15,16	11,12,13	NA
4e	9	11,12	13,14,17	17,19	8,12	9,11,12
	13,15,16	12,14,16.2	28,31.2	14,15,17	X,Y	9,12
	18,23	NA	NA	11,30.2	9.3	8,10,11
	15,16	10	NA	NA	NA	
A27YUA	GlobalFiler™					
	13,17,(18.3)	17,(22),25	(10),11	14,(15),16,(17)	11,12,(13)	
4e	9	11,12	13,14	17,19,(21)	8,12	9,11,(12)
	(13),15,16,(17)	12	28,31.2	15,17	X,(Y)	(7),(9),12
	18,23			11,(20),30.2	7,9.3	8,(10),11
	15,16	(10)			(2)	
A4F2HU	GlobalFiler™					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			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

A68ZWR	Identifiler® Plus					
		17,22,25		14,15,16,17	11,12,13	
4e	9,10	11,12,15			8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2		X,Y	7,9,12
	18,21,23,30.2				6,7,9.3	8,10,11
	15,16					
ALK22V	GlobalFiler™					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
ANK83Y	GlobalFiler™					
	13,17,18.3	17,22,25	10,11	14,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
AYMTHU	GlobalFiler™					
	13,[16.3],[17],[18.3]	[17],22,[25]	[10],11	14,15,[16],17	11,12,13	
4e	9	11,12,[15]	13,[14],[17]	17,[19]	[8],12	9,11
	[13],15,16,[17]	12,[14],[16.2]	28,31.2	[14],15,17	X,[Y]	[7],[9],12
	[18],[21],23,[30.2]			11,20,30.2	[6],7,9.3	8,11
	15,[16]	10			2	
AYQMDE	GlobalFiler™ (STRmix)					
	13,16.3,17,18.3	17,22,25	10,11	14,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
B8CBJZ	Identifiler® Plus					
		17,25		14,16	11,12	
4e	9,9	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					
BBTCBK	PowerPlex® Fusion 6C					
	13,17,18.3	17,22,25	11,11	14,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17	11,20,30.2	6,7,9.3	8,10,11
	15,16	10	17	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 4e - STR Results

BGZ28D	Investigator® 24plex (STRmix)					
	13	17,22,25	10,11	16	11,12	
4e	9	11,12	13,14,17	17,19	8,12	9,11,12
	15,16	12	28,31.2	15,17	X	12
	18,21,23			11,20,30.2	7,9.3	8,10,11
	15,16	10				
BKHZ43	GlobalFiler™					
	13,17	17,[22],25	[10],11,11	14,16,[17]	11,12,[13]	
4e	9,9	11,12,[15]	13,14,[17]	17,19	8,12	9,11
	15,16,[17]	12,12	28,31.2	15,17	X,X,[Y]	[7],12,12
	18,[21],23			11,[20],30.2	[6],7,9.3	8,[10],11
	15,16	10			2	
BL92AQ	Identifiler® Plus					
		17,22,25		14,15,16,17	11,12,13	
4e	9,10	11,12,15			8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2		X,Y	7,9,12
	18,21,23,30.2				6,7,9.3	8,10,11
	15,16					
BLD4RN	GlobalFiler™ (STRmix)					
	13,16.3,17,18.3	17,22,25	10,11	14,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,16,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
BREXTQ	Identifiler® Plus (in house software)					
		17,25		14,16	11,12	
4e	INC	11,12			8,12	9,11
	15,16	12,12	28,31.2		X,X	12,12
	18,23				7,9.3	8,11
	15,16					
BRZAW6	PowerPlex® Fusion 6C					
	13,[16.3],17,[18.3]	17,[22],25	[10],11	14,[15],16,[17]	11,12,[13]	
4e	9,[10]	11,12,[15]	13,14,[17]	17,19,[21]	8,12	9,11,[12]
	[13],15,16,[17]	12,[14],[16.2]	28,31.2	[14],15,17	X,[Y]	[7],[9],12
	18,[21],23,[30.2]	9,10,[14]	10,12,[17]	11,[20],30.2	[6],7,9.3	8,[10],11
	15,16	[10]	[17]	[17]		
CDYXYK	PowerPlex® Fusion 5C					
	13,17	17,22,25	10,11	14,16	11,12,13	
4e	9,9	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16	12,14	28,31.2	15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17		6,7,9.3	8,10,11
	15,16	10				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

CH7LCM	Identifiler® ID/ID Plus, GlobalFiler™					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
D6EGJG	Investigator® 24plex					
	13,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10				
D6MLED	Investigator® 24plex					
	INC	17,22	10	15	12,13	
4e	9	11,12	13,14	17,19	8,12	9,11,12
	13,17	12,14,16.2	28,31.2	15,17	X,Y	12
	18,21			20,30.2	6,7,9.3	10,11
	15	10				
DATTJ4	PowerPlex® Fusion					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17		6,7,9.3	8,10,11
	15,16	10				
DAUCGJ	PowerPlex® Fusion 6C					
	13,17,[18.3]	17,[22],25	[10],11	14,16,[17]	11,12,[13]	
4e	9	11,12,[15]	13,14,[17]	17,19,[21]	8,12	9,11,[12]
	[13],15,16,[17]	12,[14],[16.2]	28,31.2	15,17	X,[Y]	12
	18,[21],23,[30.2]	9,10,[14]	10,12,[17]	11,[20],30.2	[6],7,9.3	8,[10],11
	15,16	[10]	[17]	[17]		
DFYP44	PowerPlex® Fusion					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17		6,7,9.3	8,10,11
	15,16	10				
DMXCWN	Identifiler® Plus					
		17,22,25		14,15,16,17	11,12,13	
4e	9,10	11,12,15			8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2		X,Y	7,9,12
	18,21,23,30.2				6,7,9.3	8,10,11
	15,16					

TABLE 1

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

## Item 4e - STR Results

DP9HPX	PowerPlex® ESX16 fast					
	13,17	17,25	11	14,16		
4e		11,12	13,14	17,19		9,11
	15,16	12	28,31.2	15,17	X	
	18,23				7,9.3	
	15,16					
DUFJX2	Identifiler®					
		17,22,25		14,15,16,17	11,12,13	
4e	9,10	11,12,15			8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2		X,Y	7,9,12
	18,21,23,30.2				6,7,9.3	8,10,11
	15,16					
DVXXJB	Investigator® 24plex (STRmix)					
	13,17	17,22,25	11	14,16	11,12	
4e	9	11,12	13,14	17,19,21	8,12	9,11
	15,16	12	28,31.2	15,17	X	12
	18,23			11,20,30.2	7,9.3	8,10,11
	15,16					
DXFECF	PowerPlex® Fusion					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,9	11,12,15	13,14	17,19	8,12	9,11,12
	13,15,16,17	12,12	28,31.2	15,17	X,Y	inc
	18,23	inc	10,12		6,7,9.3	8,11
	15,16					
E6WARA	Investigator® 24plex QS (STRmix)					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	10,11,12,15	13,14,17	17,18,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	27,28,31.2	14,15,16,17	X	7,9,12
	18,21,23,30.2			11,20,29.2,30.2	6,7,9.3	8,10,11
	15,16	10				
EANGBJ	PowerPlex® Fusion 6C					
	13,[16.3],17,[18.3]	17,22,25	[10],11	14,16,[17]	11,12,[13]	
4e	9,[10]	11,12	13,14,[17]	17,19,[21]	8,12	9,11,[12]
	[13],15,16,17	12,[14],[16.2]	28,31.2	15,17	X,[Y]	[7],[9],12
	18,[21],23,[30.2]	9,10,[14]	10,12,[17]	11,[20],30.2	[6],7,9.3	8,[10],11
	15,16	[10]	[17]	17		
EEHEXN	PowerPlex® Fusion					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17		6,7,9.3	8,10,11
	15,16	10				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

EGAPZX	PowerPlex® Fusion 5C					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17		6,7,9.3	8,10,11
	15,16	10				
EN8Z68	GlobalFiler™					
	13,17,18.3	17,22,25	11	14,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,12
	18,21,23			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
EXCQDW	GlobalFiler™					
	13,(16.3),17,(18.3)	17,(22),25	(10),11	14,(15),16,(17)	11,12,(13)	
4e	9,(10)	11,12,(15)	13,14,(17)	17,19,(21)	8,12	9,11,(12)
	(13),15,16,(17)	12,(14,16.2)	28,31.2	(14),15,17	X,(Y)	(7,9),12
	18,(21),23,(30.2)			11,(20),30.2	(6),7,9.3	8,(10),11
	15,16	(10)			(2)	
EY4PRU	PowerPlex® Fusion 5					
	13,17,18.3	17,22,25	11,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	9,12
	18,21,23,30.2	9,10,14	10,12,17		6,7,9.3	8,10,11
	15,16	10				
EYMJDQ	PowerPlex® Fusion					
	13,17,[18.3]	17,[22],25	[10],11	14,[15],16,[17]	11,12,[13]	
4e	9,[10]	11,12,[15]	13,14,[17]	17,19,[21]	8,12	9,11,[12]
	[13],15,16,[17]	12,[14],[16.2]	28,31.2	15,17	X,[Y]	[7],[9],12
	18,[21],23,[30.2]	9,10,[14]	10,12,[17]		[6],7,9.3	8,[10],11
	15,16					
F4GBB7	Investigator® 24plex QS (STRmix)					
	12,13,16,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12	13,14,17	17,18,19,21	8,12	9,11,12
	13,15,16,17	12,14	27,28,31.2	14,15,16,17	X,Y	7,9,12
	18,21,23,30.2			11,20,29.2,30.2	6,7,9.3	8,10,11
	15,16	10				
F4GMWW	GlobalFiler™					
	13,(16.3),17,(18.3)	17,(22),25	(10),11	14,(15),16,(17)	11,12,(13)	
4e	9,(10)	11,12,(15)	13,14,(17)	17,19,(21)	8,12	9,11,(12)
	(13),15,16,(17)	12,(14,16.2)	28,31.2	(14),15,17	X,(Y)	(7,9),12
	18,(21),23,(30.2)			11,(20),30.2	(6),7,9.3	8,(10),11
	15,16	(10)			(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

FAH482	PowerPlex® Fusion					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17		6,7,9.3	8,10,11
	15,16	10				
FBFXZK	GlobalFiler™					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,21	8,12	9,11,12
	13,15,16,17	12,16.2	28,31.2	15,17	X	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,11
	15,16	10			2	
FKMD9E	PowerPlex® Fusion					
	13,16.3,17,18.3	17,22	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17		6,7,9.3	8,10,11
	15,16	10				
FWVRZY	Identifiler®					
		17,22,25		14,15,16,17	11,12,13	
4e	9,10	11,12,15			8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2		X,Y	7,9,12
	18,21,23,30.2				6,7,9.3	8,11
	15,16					
G8CZWQ	GlobalFiler™					
	13,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
G99EJJ	NGM SElect					
	13,17	17,25	11,11	14,16		
4e		11,12	13,14	17,19		9,11
	15,16	12,12	28,31.2	15,17	X,X	
	18,23			11,30.2	7,9.3	
	15,16					

TABLE 1

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

## Item 4e - STR Results

GLDXEA	Investigator® 24plex (STRmix)					
	12,13,16,17,18.3	16,17,22,24,25	10,11	13,14,15,16,17	11,12,13	
4e	8,9,10	10,11,12,15	12,13,14,17	16,17,18,19,21	8,11,12	9,10,11,12
	13,14,15,16,17	12,14,16.2	27,28,30.2,31.2	14,15,16,17,18	X,Y	7,9,12
	18,21,23,30.2			10,11,19,20,29.2,30.2	6,7,9.3	8,10,11
	14,15,16	10				
GMA4KQ	GlobalFiler™					
	13,17,18.3	17,22,25	11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16	12,14,16.2	28,31.2	15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
GTA8N3	GlobalFiler™					
	13,17,(18.3)	17,(22),25	(10),11	14,(15),16,(17)	11,12,(13)	
4e	9,(10)	11,12,(15)	13,14,(17)	17,19,(21)	8,12	9,11,(12)
	(13),15,16,(17)	12,(14,16.2)	28,31.2	(14),15,17	X,(Y)	(7,9),12
	18,(21),23,(30.2)			11,(20),30.2	(6),7,9.3	8,(10),11
	15,16	(10)			(2)	
H23TFM	GlobalFiler™					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
H6434A	PowerPlex® Fusion 5C					
	13,17	17,22,25	10,11	14,16,17	11,12,13	
4e	9,9	11,12,15	13,14	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,12
	18,21,23,30.2	9,10	10,12		7,9.3	8,10,11
	15,16					
H89VVM	Identifiler® Plus					
		17,22,25		14,15,16,17	11,12,13	
4e	9,10	11,12,15			8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2		X,Y	7,9,12
	18,21,23,30.2				6,7,9.3	8,10,11
	15,16					

TABLE 1

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

## Item 4e - STR Results

HAGYRJ	Investigator® 24plex (STRmix)					
	13,16.3,17,18.3	17,25	10,11	14,16,17	11,12,13	
4e	9	11,12,15	13,14,17	17,19	8,12	9,11
	13,15,16	12	28,31.2	15,17	X	12
	18,23			11,30.2	6,7,9.3	8,11
	15,16					
HF7RCC	GlobalFiler™					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11,--
	15,16	10			2	
HL9XRF	PowerPlex® Fusion 6C					
	13,17	17,[22],25	[10],11	14,[15],16,[17]	11,12,[13]	
4e	9	11,12	13,14,[17]	17,19	8,12	9,11
	[13],15,16,[17]	12,[14]	28,31.2	15,17	X	12
	18,23,[30.2]	9,10,[14]	10,12	11,[20],30.2	6,7,9.3	8,[10],11
	15,16	[10]	NR	NR		
HXZ2ZU	PowerPlex® Fusion 6C (STRmix)					
	13,17,[18.3]	17,[22],25	[10],11,11	14,[15],16,[17]	11,12,[13]	
4e	9,9,[10]	11,12,[15]	13,14,[17]	17,19,[21]	8,12	9,11,[12]
	15,16,[17]	12,12,[14]	28,31.2	15,[16],17	X,X,[Y]	[9],12,12
	18,[21],23,[30.2]	9,10,[14]	10,12,[17]	11,[20],30.2	[6],7,9.3	8,[10],11
	15,16	10	17	17		
HYW3XQ	GlobalFiler™					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
HYWENM	Investigator® 24plex					
	13,17	17,(22),25	(10),11	14,16	11,12	
4e	9,9	11,12	13,14	17,19	8,12	9,11
	(13),15,16,(17)	12,(16.2)	28,31.2	15,17	X,X	(7),(9),12
	18,23			11,30.2	(6),7,9.3	8,(10),11
	15,16	No Results				
HYXUTD	PowerPlex® Fusion 6C					
	13,[16.3],17,[18.3]	17,[22],25	[10],11	14,[15],16,[17]	11,12,[13]	
4e	9,[10]	11,12,[15]	13,14,[17]	17,19,[21]	[8],12	9,11,[12]
	[13],15,16,[17]	12,[14],[16.2]	28,31.2	[14],15,17	X,[Y]	[7],[9],12
	18,[21],23,[30.2]	9,10,[14]	10,12,[17]	11,[20],30.2	[6],7,9.3	8,[10],11
	15,[16]	[10]	NR	[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 4e - STR Results

JB7EVZ	PowerPlex® Fusion					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17		28,31.2	14,15,16,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17		6,7,9.3	8,10,11
	15,16	10				
JKDDH	Investigator® 24plex (STRmix)					
	13,16,16.3,17	17,22,24,25	10,11	13,14,15,16	11,12,13	
4e	8,9	10,11,12,15	12,13,14,17	16,17,18,19,21	8,11,12	9,10,11,12
	13,14,15,16,17	12,14,16.2	28,30.2,31.2	14,15,16,17	X,Y	7,9,12
	18,21,22,23			11,20,29.2,30.2	6,7,9.3	8,10,11
	15,16	10				
JM2939	Investigator® 24plex (STRMix)					
	13,17	17,25	10,11	14,15,16	11,12,13	
4e	9	11,12	13,14	17,19	8,12	9,11
	15,16	12,14	28,31.2	14,15,16,17	X	11,12
	18,23			11,20,29.2,30.2	7,9.3	8,10,11
	15,16					
JNBUGV	PowerPlex® Fusion					
	13,17	17,25	[10],11	14,16	11,12	
4e	9	11,12,[15]	13,14	17,19	8,12	9,11,[12]
	15,16	12	28,31.2	15,17	X	12
	18,23,[30.2]	9,10	10,12		7,9.3	8,11
	15,16	NR				
JRB4PC	PowerPlex® Fusion 5C					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17		6,7,9.3	8,10,11
	15,16	10				
JVT7UW	PowerPlex® Fusion 5C					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17		6,7,9.3	8,10,11
	15,16	10				
JXGZQH	Investigator® 24plex QS					
	13,16.3,17,18.3	17,22,25	10,11	14,16,17	11,12,13	
4e	9,(10)	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

K7AV48	Investigator® 24plex (STRMix)					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,16,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10				
K7RCAF	Investigator® 24plex (STRmix)					
	13,17	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14	28,31.2	14,15,17	X,Y	7,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16					
KFU2ZB	PowerPlex® Fusion 6C					
	13,[16.3],17,[18.3]	17,[22],25	[10],11	14,16,[17]	11,12,[13]	
4e	9	11,12,[15]	13,14,[17]	17,19,[21]	8,12	9,11,[12]
	[13],15,16,[17]	12,[14],[16.2]	28,31.2	15,17	X,[Y]	[7],12
	18,[21],23,[30.2]	9,10	10,12,[17]	11,[20],30.2	[6],7,9.3	8,[10],11
	15,16	[10]	[17]	NR		
KG829L	GlobalFiler™					
	13,[16.3],17,[18.3]	17,22,25	10,11	14,[15],16,[17]	11,12,13	
4e	9,[10]	11,12,[15]	13,14,[17]	17,19,[21]	8,12	9,11,[12]
	[13],15,16,[17]	12,[14],[16.2]	28,31.2	[14],15,17	X,[Y]	[7],[9],12
	18,[21],23,[30.2]			11,20,30.2	[6],7,9.3	8,[10],11
	15,16	[10]			[2]	
KJK8X	PowerPlex® Fusion 6C					
	13,17,18.3	17,22,25	10,11	14,16,17	11,12,13	
4e	9,9	11,12,15	13,14,17	17,19	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,12
	18,21,23,30.2	9,10	10,12,17	11,20,30.2	6,7,9.3	8,10,11
	15,16	10	17	17		
KTPKTH	Investigator® 24plex (STRMix)					
	13,16.3,17	17,22,25	10,11	14,15,16	11,12,13	
4e	9	11,12	12,13,14,17	17,19	8,11,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,11,12
	18,23,30.2			11,20,30.2	6,7,9.3	8,11
	14,15,16	10				
KVMBNV	PowerPlex® Fusion					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9	11,12,15	13,14	17,19,21	8,12	9,11,12
	13,15,16,17	12	28,31.2	14,15,17	X,Y	7,9,12
	18,23,30.2	9,10	10,12		6,7,9.3	8,10,11
	15,16	10				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

L8X3RV	PowerPlex® Fusion					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17		6,7,9.3	8,10,11
	15,16	10				
L9CH8H	GlobalFiler™					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
LBZ27U	GlobalFiler™					
	13,17	17,25	11,11	14,16	11,12	
4e	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,30.2	7,9.3	8,11
	15,16					
LCURAN	GlobalFiler™					
	13,17,(18.3)	17,(22),25	(10),11	14,(15),16,(17)	11,12,(13)	
4e	9,(10)	11,12,(15)	13,14,(17)	17,19,(21)	8,12	9,11,(12)
	(13),15,16,(17)	12,(14,16.2)	28,31.2	15,17	X,(Y)	(7,9),12
	18,(21),23,(30.2)			11,(20),30.2	(6),7,9.3	8,(10),11
	15,16	(10)			(2)	
LN4T3D	GlobalFiler™ (STRmix)					
	13,16.3,17,18.3	17,22,25	11	14,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
LNPLGW	Investigator® 24plex (STRmix)					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,16,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10				
LR8XM9	GlobalFiler™					
	13,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			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

LTZEUG	GlobalFiler™ (STRMIX)					
	13,17,18.3	17,22,25	10,11	14,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
LV7VX	Investigator® 24plex (STRmix)					
	13,16.3,17,18.3	17,22,24,25	10,11	14,15,16,17	11,12,13	
4e	8,9,10	10,11,12,15	12,13,14,17	16,17,18,19,21	8,12	9,10,11,12
	13,15,16,17	12,14,16.2	28,30.2,31.2	14,15,16,17	X,Y	7,9,12
	18,21,23,30.2			11,20,29.2,30.2	6,7,9.3	8,10,11
	14,15,16	10				
LWFJAK	Investigator® 24plex					
	13,17,18.3	17,22,25	10,11	14,16,17	11,12,13	Not Tested
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,9,12
	18,21,23,30.2	Not Tested	Not Tested	11,20,30.2	6,7,9.3	8,10,11
	15,16	10	Not Tested	Not Tested	Not Tested	
LWHB68	Identifiler® Plus					
	Not Tested	17,22,25	Not Tested	14,15,16,17	11,12	Not Tested
4e	9,10	11,12,15	Not Tested	Not Tested	8,12	9,11,12
	15,16	12,14	28,31.2	Not Tested	X,X	7,9,12
	18,23	Not Tested	Not Tested	Not Tested	6,7,9.3	8,11
	15,16	Not Tested	Not Tested	Not Tested	Not Tested	
LXA8RF	Identifiler® Plus					
		17,22,25		14,15,16,17	11,12,13	
4e	9,10	11,12,15			8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2		X,Y	7,9,12
	18,21,23,30.2				6,7,9.3	8,10,11
	15,16					
M2CV2G	PowerPlex® Fusion					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2		X,Y	
	18,21,23,30.2	9,10	10,12		6,7,9.3	8,11
	15,16	10				
M8AC4T	GlobalFiler™					
	13,(16.3),17,(18.3)	17,22,25	(10),11	14,(15),16,(17)	11,12,13	
4e	9,(10)	11,12,(15)	13,14,(17)	17,19,(21)	8,12	9,11,(12)
	(13),15,16,(17)	12,(14,16.2)	28,31.2	14,15,17	X,(Y)	(7,9),12
	18,(21),23,(30.2)			11,(20),30.2	6,7,9.3	8,(10),11
	15,16	(10)			(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

M8UJDX	Investigator® 24plex (STRmix)					
	12,13,16,17	16,17,24,25	10,11	13,14,15,16	10,11,12	
4e	9,9	10,11,12	12,13,14	16,17,18,19	8,12	9,11
	14,15,16,17	11,12	28,30.2,31.2	14,15,16,17	X,X	11,12
	18,22,23			11,29.2,30.2	7,9.3	8,11
	14,15,16					
MCBQZC	GlobalFiler™					
	13,17	17,22,25	11	14,15,16	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11
	15,16	12,16.2	28,31.2	14,15,17	X,Y	7,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
MDJ2RA	PowerPlex® Fusion 6C					
	13,[16.3],17	17,[22],25	[10],11	14,16,[17]	11,12,[13]	
4e	9,[10]	11,12	13,14	17,19	8,12	9,11
	15,16	12,[16.2]	28,31.2	15,17	X,[Y]	12
	18,23	9,10	10,12	11,[20],30.2	[6],7,9.3	8,11
	15,16	NR	NR	NR		
MJ69GN	GlobalFiler™					
	13,17	17,[22],25	[10],11	14,[15],16	11,12,[13]	
4e	9	11,12	13,14,[17]	17,19	8,12	9,11,[12]
	[13],15,16	12	28,31.2	15,17	X	12
	18,[21],23			11,[20],30.2	7,9.3	8,11
	15,16	[10]			NR	
MPCK9Z	GlobalFiler™					
	13,16.3,17,18.3	17,22,25	11	14,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
MX689R	Identifiler® Plus					
		17,22,25		14,15,16,17	11,12,13	
4e	9,10	11,12,15			8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2		X,Y	7,9,12
	18,21,23,30.2				6,7,9.3	8,10,11
	15,16					
MX8UTQ	GlobalFiler™					
	13,17	17,(22),25	(10),11,11	14,16	11,12,(13)	
4e	9,9,(10)	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23			11,(20),30.2	7,9.3	8,11
	15,16	N.D.			N.D.	



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

NAFYCR	Identifiler®					
		17,25		14,16	11,12	
4e	9	11,12			8,12	9,11
	15,16	12	28,31.2		X	12
	18,23				7,9.3	8,11
	15,16					
NGEL27	Investigator® 24plex					
	13,17,18.3	17,22,25	10,11	14,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10				
NKUY3T	PowerPlex® Fusion					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17		6,7,9.3	8,10,11
	15,16	10				
NLC4KR	GlobalFiler™					
	13,17	17,[22],25	[10],11	14,16	11,12,[13]	
4e	9	11,12,[15]	13,14,[17]	17,19	8,12	9,11
	15,16,[17]	12,[16.2]	28,31.2	[14],15,17	X,[Y]	12
	18,[21],23			11,30.2	[6],7,9.3	8,11
	15,16	[10]			[2]	
P434XM	Identifiler® Plus					
		17,22,25		14,15,16,17	11,12,13	
4e	9,10	11,12,15			8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2		X	7,9,12
	18,21,23				7,9.3	8,11
	15,16					
P7T64A	GlobalFiler™					
	13,16.3,17,18.3	17,22,25	10,11	14,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
PCKECM	PowerPlex® 21 (STRmix)					
	13,17,18.3	17,22,25		14,15,16,17	11,12,13	12,16
4e	9,10	11,12,15		17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2		X,Y	7,19,12
	18,21,23,30.2	9,10,14	10,12		7,9.3	8,11
	15,16					

TABLE 1

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

## Item 4e - STR Results

PJJEV6	PowerPlex® Fusion 5C					
		13,17,18.3	17,22,25	11,11	14,15,16,17	11,12,13
	4e	9,10	11,12,15	13,14	17,19,21	8,12 9,11,12
		13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y 7,9,12
		18,21,23,30.2	9,10,14	10,12,17		6,7,9.3 8,10,11
	15,16	10				
PW6CUY	Investigator® 24plex (STRmix V2.4.06)					
		13,16.3,17,18.3	17,22,25	10,11	14,16,17	11,12,13
	4e	9,10	11,12,15	13,14,17	17,19,21	8,12 9,11,12
		13,15,16,17	12,14,16.2	28,31.2	14,15,16,17	X,Y 7,9,12
		18,21,23			11,20,30.2	6,7,9.3 8,10,11
	15,16	10				
Q8KJ7T	Investigator® 24plex (STRmix)					
		13,16.3,17,18.3	17,22,25	10,11	14,16,17	11,12,13
	4e	9	11,12,15	13	17,19	8,12 9,11,12
		15,16,17	12	28,31.2	14,15,17	X,Y 12
		18,23			11,20,30.2	6,7,9.3 8,10,11
	15,16	10				
QBX3V9	PowerPlex® Fusion 6C					
		13,17,18.3	17,22,25	10,11	14,16,17	11,12,13 Not Tested
	4e	9,10	11,12,15	13,14,17	17,19,21	8,12 9,11,12
		13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y 7,9,12
		18,21,23,30.2	9,10,14	10,12,17	11,20,30.2	6,7,9.3 8,10,11
	15,16	10	17	No Results	Not Tested	
QKLUH2	Investigator® 24plex					
		13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13
	4e	9,10	11,12,15	13,14,17	17,19,21	8,12 9,11,12
		13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y 7,9,12
		18,21,23,30.2			11,20,30.2	6,7,9.3 8,10,11
	15,16	10				
QLK2LE	GlobalFiler™					
		13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13
	4e	9,10	11,12,15	13,14,17	17,19,21	8,12 9,11,12
		13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y 7,9,12
		18,21,23,30.2			11,20,30.2	6,7,9.3 8,10,11
	15,16	10			2	
R6RGQC	GlobalFiler™					
		13,[16.3],17,[18.3]	17,22,25	10,11	14,[15],16,[17]	[11],[12],13
	4e	9,[10]	11,12,[15]	13,14,[17]	17,19,[21]	[8],12 9,11,[12]
		13,15,16,[17]	12,[14],[16.2]	28,31.2	[14],15,17	X,[Y] [7],[9],12
		18,21,23,30.2			11,20,30.2	[6],[7],[9.3] 8,[10],11
	15,[16]	10			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

R8HFR9	GlobalFiler™					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
RLFYCZ	GlobalFiler™					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
RLZK7B	Identifiler® Plus					
	-	17,22,25	-	14,15,16,17	11,12,13	-
4e	9,10	11,12,15	-	-	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	-	X,Y	7,9,12
	18,21,23,30.2	-	-	-	6,7,9.3	8,10,11
	15,16	-	-	-	-	
RRNQXX	Investigator® 24plex (STRmix)					
					11	
4e		12	13,14	17,19	8,12	11
	15,16	12,16.2	31.2	15,17	X	12
					7	11
	15					
RY37BL	QIAamp® DNA Investigator Kit					
		17,22,25		14,15,16,17	11,12,13	
4e	9,10	11,12,15			8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2		X,Y	7,9,12
	18,21,23,30.2				6,7,9.3	8,10,11
	15,16					
T4VN7D	GlobalFiler™					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
T6RELK	GlobalFiler™ (STRmix)					
	13,17,18.3	17,22,25	11,11	14,16,17	11,12,13	
4e	9,9	11,12	13,14,17	17,19,21	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	7,12
	18,23			11,20,30.2	7,9.3	8,11
	15,16				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

T7H87P	PowerPlex® Fusion 6C					
	13,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12	11,20,30.2	6,7,9.3	8,10,11
	15,16	10				
TG49UC	GlobalFiler™					
	13,[16.3],17,[18.3]	17,22,25	[10],11	14,[15],16,[17]	11,12,13	
4e	9,[10]	11,12,[15]	13,14,[17]	17,19,[21]	8,12	9,11,[12]
	[13],15,16,[17]	12,[14],[16.2]	28,31.2	[14],15,17	X,[Y]	[7],[9],12
	18,[21],23,[30.2]			11,20,30.2	[6],7,9.3	8,[10],11
	15,16	10			2	
TYHU7L	PowerPlex® Fusion					
	13,16.3,17	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12		6,7,9.3	8,10,11
	15,16	10				
U9KCGN	PowerPlex® ESX-17					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17		
4e		11,12,15	13,14,17	17,19,21		9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	
	18,21,23,30.2			11,20,30.2	6,7,9.3	
	15,16					
UEN2T8	PowerPlex® Fusion					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,12
	18,21,23,30.2	9,10	10,12		6,7,9.3	8,10,11
	15,16	10				
URXFCU	GlobalFiler™					
	13,16.3,17,[18.3]	17,22,25	10,11	14,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	[7],9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
UUN9XJ	GlobalFiler™					
	13,(16.3),17,(18.3)	17,(22),25	(10),11,11	14,16,(17)	11,12,(13)	
4e	9,9,(10)	11,12,(15)	13,14,(17)	17,19,(21)	8,12	9,11,(12)
	(13),15,16,(17)	12,12,(14),(16.2)	28,31.2	(14),15,17	X,X,(Y)	(7),(9),12,12
	18,(21),23,(30.2)			11,(20),30.2	(6),7,9.3	8,(10),11
	15,16	10			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

V4PTZC	GlobalFiler™					
	13,[16.3],17,[18.3]	17,22,25	10,11	14,[15],16,[17]	11,12,[13]	
4e	9,[10]	11,12,[15]	13,14,[17]	17,19,[21]	8,12	9,11,[12]
	[13],15,16,[17]	12,[14],[16.2]	28,31.2	15,17	X,[Y]	[7],[9],12
	18,[21],23,[30.2]			11,20,30.2	6,7,9.3	8,10,11
	15,16	[10]			[2]	
VE9ZLY	PowerPlex® Fusion 6C					
	13,[16.3],17,[18.3]	17,[22],25	[10],11	14,16,[17]	11,12,[13]	
4e	9	11,12,[15]	13,14,[17]	17,19,[21]	8,12	9,11,[12]
	[13],15,16,[17]	12,[14]	28,31.2	15,17	X,[Y]	[7],[9],12
	18,23,[30.2]	9,10,[14]	10,12	11,20,30.2	[6],7,9.3	8,[10],11
	15,16	[10]	[17]	[17]		
VKA9TR	GlobalFiler™ (STRmix)					
	13,16.3,17,18.3	17,22,25	10,11	14,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,16,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
VMZRYE	GlobalFiler™					
	13,(16.3),17,(18.3)	17,22,25	(10),11	14,(15),16,(17)	11,12,(13)	
4e	9,(10)	11,12,(15)	13,14,(17)	17,19,(21)	8,12	9,11,(12)
	(13),15,16,(17)	12,(14,16.2)	28,31.2	(14),15,17	X,(Y)	(7,9),12
	18,(21),23,(30.2)			11,(20),30.2	(6),7,9.3	8,(10),11
	15,16	(10)			(2)	
VPQGGR	Investigator® 24plex QS (STRmix)					
	12,13,16,17,18.3	17,22,24,25	10,11	13,14,15,16,17	10,11,12,13	
4e	8,9	10,11,12,15	12,13,14	16,17,18,19,21	8,11,12	9,10,11,12
	13,14,15,16,17	11,12,14	27,28,30.2,31.2	14,15,16,17	X,Y	7,9,12
	17,18,21,22,23			10,11,20,29.2,30.2	6,7,9.3	8,10,11
	14,15,16					
VRR29C	PowerPlex® Fusion 6C					
	13,16.3,17,18.3	17,25	11,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,12	28,31.2	15,17	X,Y	9,12
	18,21,23,30.2	9,10,14	10,12	11,20,30.2	6,7,9.3	8,10,11
	15,16	10		17		
VW3AAG	PowerPlex® Fusion 6C (STRMix)					
	13,17	17,25	11,11	14,[15],16	11,12,[13]	
4e	9,9	11,12	13,14	17,19	8,12	9,11
	15,16	12,12	28,31.2	15,17	X,X	12,12
	18,23	9,10	10,12	11,[20],30.2	7,9.3	8,11
	15,16					

TABLE 1

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

## Item 4e - STR Results

VXGE9F	GlobalFiler™						
		13,(16.3),17,(18.3)	17,22,25	(10),11	14,(15),16,(17)	11,12,(13)	
	4e	9,(10)	11,12,(15)	13,14,(17)	17,19,(21)	8,12	9,11,(12)
		(13),15,16,(17)	12,(14,16.2)	28,31.2	(14),15,17	X,(Y)	(7,9),12
		18,(21),23,(30.2)			11,(20),30.2	(6),7,9.3	8,(10),11
	15,16	(10)			(2)		
VXYMWA	GlobalFiler™						
		13,17	17,22,25	10,11	14,16,17	11,12,13	
	4e	9,9	11,12,15	13,14,17	17,19,21	8,12	9,11,12
		13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,9,12
		18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2		
VYTW2P	Investigator® 24plex (STRmix)						
		13,17	17	10,11		11,13	
	4e	9		14	17	8	11
		15,16	12		15,17	X,Y	12
		23				6,7,9.3	8,10,11
	15	10					
WDBG9J	GlobalFiler™						
		13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
	4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
		13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
		18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2		
WW3MGA	GlobalFiler™						
		13,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
	4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
		13,15,16	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
		18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2		
XBV4UR	Investigator® 24plex (STRmix)						
		13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
	4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
		13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
		18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10					
XCQ42X	GlobalFiler™						
		13,17	17,22,25	11,11	14,16,17	11,12,13	
	4e	9,9	11,12,15	13,14,17	17,19	8,12	9,11
		13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,9,12
		18,21,23			11,20,30.2	6,7,9.3	8,11
	15,16				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

XG7ZY2	GlobalFiler™					
	13,16.3,17,18.3	17,22,25	11	14,16,17	11,12,13	
	4e 9	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10		2		
XHXTGK	PowerPlex® Fusion					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
	4e 9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17		6,7,9.3	8,10,11
	15,16	10				
XLD3QH	PowerPlex® Fusion					
	13,[16.3],17,[18.3]	17,[22],25	[10],11	14,[15],16,[17]	11,12,[13]	
	4e 9,[10]	11,12,[15]	13,14,[17]	17,19,[21]	8,12	9,11,[12]
	[13],15,16,[17]	12,[14],[16.2]	28,31.2	15,17	X,[Y]	[7],[9],12
	18,[21],23,[30.2]	9,10,[14]	10,12,[17]		[6],7,9.3	8,[10],11
	15,16	[10]				
XUCLHL	GlobalFiler™					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
	4e 9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10		2		
Y6NXRU	PowerPlex® Fusion					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
	4e 9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17		6,7,9.3	8,10,11
	15,16	10				
YAWZJB	GlobalFiler™					
	13,[16.3],17,[18.3]	17,22,25	[10],11	14,[15],16,[17]	11,12,13	
	4e 9,[10]	11,12,[15]	13,14,[17]	17,19,[21]	8,12	9,11,[12]
	[13],15,16,[17]	12,[14],[16.2]	28,31.2	[14],15,17	X,[Y]	[7],[9],12
	18,[21],23,[30.2]			11,20,30.2	[6],7,9.3	8,[10],11
	15,16	[10]		[2]		
YCMYXA	GlobalFiler™					
	13,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
	4e 9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10		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

YEA4MC	Identifiler® ID+ (STRmix)					
		17,22,25		14,16,17	11,12,13	
4e	9,10	11,12,15			8,12	9,11,12
	15,16	12,14,16.2	28,31.2		X,Y	7,9,12
	18,21,23				7,9.3	8,11
	15,16					
YETJLA	PowerPlex® Fusion 5C					
	13,17,18.3	17,22,25	11,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17		6,7,9.3	8,10,11
	15,16	10				
YMJ8GC	GlobalFiler™					
	13,17,(18.3)	17,(22),25	(10),11	14,(15),16,(17)	11,12,(13)	
4e	9,(10)	11,12,(15)	13,14,(17)	17,19,(21)	8,12	9,11,(12)
	(13),15,16,(17)	12,(14,16.2)	28,31.2	(14),15,17	X,(Y)	(7,9),12
	18,(21),23			11,(20),30.2	(6),7,9.3	8,(10),11
	15,16	(10)			(2)	
YR3M44	PowerPlex® Fusion					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	15,17	X,Y	9,12
	18,21,23,30.2	9,10	10,12,17		6,7,9.3	INC
	15,16					
Z2HBK3	Identifiler® Plus					
	-	17,22,25	-	14,15,16,17	11,12,13	-
4e	9,10	11,12,15	-	-	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	-	X,Y	7,9,12
	18,21,23,30.2	-	-	-	6,7,9.3	8,10,11
	15,16	-	-	-	-	
Z94PJM	GlobalFiler™					
	13,[16.3],17,18.3	17,22,25	11	14,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,[21]	8,12	9,11,12
	[13],15,16,17	12,[14],16.2	28,31.2	14,15,17	X,Y	[7],[9],12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,[10],11
	15,16	[10]			2	
ZC4ZEM	GlobalFiler™					
	13,16.3,17,18.3	17,22,25	10,11	14,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,16,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			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

ZEBDWN	Investigator® 24plex (StRmix)					
	13,16.3,17,18.3	17,22	10,11	14,15	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,17	12	28,31.2	14,15	X,Y	9,12
	18,21,30.2			20,30.2	7,9.3	8,10,11
	15,16	10				
ZM6ZWF	PowerPlex® Fusion 6C					
	13,[16.3],17,[18.3]	17,[22],25	[10],11	14,[15],16,[17]	11,12,[13]	
4e	9,[10]	11,12,[15]	13,14,[17]	17,19,[21]	8,12	9,11,[12]
	[13],15,16,[17]	12,[14],[16.2]	28,31.2	[14],15,17	X,[Y]	[7],[9],12
	18,[21],23,[30.2]	9,10,[14]	10,12,[17]	11,[20],30.2	[6],7,9.3	8,[10],11
	15,16	10	17	17		
ZP8ZT7	GlobalFiler™, Investigator® 24plex					
	13,16.3,17,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4e	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2			11,20,30.2	6,7,9.3	8,10,11
	15,16	10			2	
ZQKVQC	PowerPlex® 21					
	13,17,18.3	17,22,25		14,16	11,12,13	11,12,16
4e	9	11,12,15		17,19,21	8,12	9,11
	13,15,16,17	12,14	28,31.2		X	7,9,12
	18,23,30.2	9,10,14	10,12,17		7,9.3	8,11
	15,16					
ZU2TAF	GlobalFiler™					
	13,[16.3],17,[18.3]	17,22,25	[10],11	14,[15],16,[17]	11,12,[13]	
4e	9,[10]	11,12,[15]	13,14,[17]	17,19,[21]	8,12	9,11,[12]
	[13],15,16,[17]	12,[14],[16.2]	28,31.2	[14],15,17	X,[Y]	[7],[9],12
	18,[21],23,[30.2]			11,[20],30.2	[6],7,9.3	8,[10],11
	15,16	[10]			[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

23CGE2	GlobalFiler™					
		16.3,18.3	22,22	10,10	15,17	13,13
4sp		9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20,20	6,7
		15,15	10			2
279376	PowerPlex® Fusion 5C					
		16.3,18.3	22,22	10,10	15,17	13,13
4sp		9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2	9,14	10,17		6,7
		15,15	10			10,11
227QEE	GlobalFiler™					
		16.3,18.3	17,22	10	15,17	13
4sp		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
32XW3N	Investigator® 24plex (STRMix)					
		15.3,16.3,17.3,18.3	21,22	9,10	14,15,16,17	12,13
4sp		9,10	11,12,14,15	12,13,14,16,17	16,17,19,20,21	8,11,12
		12,13,16,17	13,14,15.2,16.2	27,28,30.2,31.2	13,14,15,16,17	X,Y
		18,20,21,29.2,30.2			19,20	6,7
		14,15,16	10			10,11
36VDDW	GlobalFiler™					
		16.3,18.3	22	10	15,17	13
4sp		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
3BHK3C	GlobalFiler™					
		16.3,18.3	22,22	10,10	15,17	13,13
4sp		9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20,20	6,7
		15,15	10			2
3CEYP6	Investigator® 24plex					
		16.3,18.3	22,22	10,10	15,17	13,13
4sp		9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20,20	6,7
		15,15	10			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

3MZLUK	Investigator® 24plex QS (STRmix)						
		16.3,18.3	22,22	10,10	15,17	13,13	N/A
	4sp	9,10	12,15	13,17	17,21	12,12	11,12
		13,17	14,16.2	28,31.2	14,15	X,Y	7,9
		21,30.2	N/A	N/A	20,20	6,7	10,11
	15,15	10	N/A	N/A	N/A		
3P33VF	PowerPlex® ESI 16 Fast						
		16.3,18.3	22,22	10,10	15,17		
	4sp		12,15	13,17	17,21		11,12
		13,17	14,16.2	28,31.2	14,15	X,Y	
		21,30.2				6,7	
	15,15						
3TMBEU	PowerPlex® Fusion 6C						
		16.3,18.3	22,22	10,10	15,17	13,13	NT
	4sp	9,10	12,15	13,17	17,21	12,12	11,12
		13,17	14,16.2	28,31.2	14,15	X,Y	7,9
		21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17	NT		
42R3WM	Investigator® 24plex (STRMix)						
		15.3,16.3,17.3,18.3	17,22,25	9,10,11	14,15,16,17,18	11,12,13	
	4sp	8,9,10	11,12,14,15	12,13,14,16,17	16,17,20,21	8,11,12,13	10,11,12
		12,13,15,16,17	12,13,14,15.2,16.2	27,28,30.2,31.2	13,14,15,16,17	X,Y	7,8,9,12
		18,21,23,30.2			11,20,30.2	6,7,9.3	8,9,10,11
	14,15,16	10					
43NFJF	Investigator® 24plex (STRmix)						
		15.3,16.3,17.3,18.3	21,22	9,10,11	14,15,16,17	12,13	
	4sp	8,9,10	11,12,14,15	12,13,16,17	16,17,20,21	8,11,12	10,11,12
		12,13,16,17	12,13,14,15.2,16.2	27,28,30.2,31.2	13,14,15,16	X,Y	7,9,12
		20,21,29.2,30.2			19,20,21	6,7,9.3	10,11
	14,15	10					
49RWZB	Identifiler®						
			22,22		15,17	13,13	
	4sp	9,10	12,15			12,12	11,12
		13,17	14,16.2	28,31.2		X,Y	7,9
		21,30.2				6,7	10,11
	15,15						
4A74LR	PowerPlex® Fusion 6C						
		16.3,18.3	22,22	10,10	15,17	13,13	
	4sp	9,10	12,15	13,17	17,21	12,12	11,12
		13,17	14,16.2	28,31.2	14,15	X,Y	7,9
		21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	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 4sp - STR Results

4A8VGE	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
4DKZN9	PowerPlex® Fusion 6C (STRmix)					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
4FCVWB	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
4PW9PE	PowerPlex® PPESX, PP21 Y Fusion (ABI-HID 3500)					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17		12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15					
4UQQZQ	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
6D3UZM	Investigator® 24plex (STRmix)					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
6F7ZQA	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			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

6HDQ4X	Investigator® 24plex QS					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10				
6N7PHT	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
6PFUVG	Investigator® 24plex (STRmix)					
	16.3,18.3	22,22	10,10	15,17	13,13	NA
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	NA	NA	20,20	6,7	10,11
	15,15	10	NA	NA	NA	
6VKVUP	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
6WD2HQ	PowerPlex® PPF-5C					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	12,14,16.2	28,31.2	14,15	X,Y	7,9
	18,21,30.2	9,14	10,17		6,7	10,11
	15,15	10				
77UV23	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
7DE6H8	PowerPlex® Fusion 6C (STRmix)					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	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 4sp - STR Results

7M4E3F	Investigator® 24plex QS (STRmix)					
	15.3,16.3,17.3,18.3	21,22	9,10	14,15,16,17	12,13	
4sp	9,10	11,12,14,15	12,13,16,17	16,17,20,21	11,12	11,12
	12,13,16,17	14,15.2,16.2	27,28,30.2,31.2	14,15	X,Y	7,9
	20,21,30.2			19,20	6,7	10,11
	14,15	10				
7Q2DHU	Identifiler® Plus, MiniFiler					
		22,22		15,17	13,13	
4sp	9,10	12,15			12,12	11,12
	13,17	14,16.2	28,31.2		X,Y	7,9
	21,30.2				6,7	10,11
	15,15					
83DFZW	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
84RJWA	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
87Q6HK	GlobalFiler™					
	16.3,18.3	17,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
89FBZW	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,[15]	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
8EL6R8	PowerPlex® Fusion 5C					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

8NUZ7Q	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
8RV4XD	Investigator® 24plex (STRmix)					
	15.3,16.3,17.3,18.3	21,22	9,10,11	14,15,16,17	12,13	
4sp	8,9,10	11,12,14,15	12,13,16,17	16,17,20,21	8,11,12	10,11,12
	12,13,16,17	12,13,14,15.2,16.2	27,28,30.2,31.2	13,14,15,16	X,Y	7,9,12
	20,21,29.2,30.2			19,20,21	6,7,9.3	10,11
	14,15	10				
8U2TX2	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	Not Tested
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	Not Tested	Not Tested	20	6,7	10,11
	15	10	Not Tested	Not Tested	2	
8UFK3Y	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
93MTW6	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
96DN68	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
98HBJW	PowerPlex® Fusion 5C					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

9E4DK8	PowerPlex® Fusion 6C					
	16,3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20	6,7	10,11
	15	10	17	17		
9LKRLR	PowerPlex® Fusion 5C					
	16,3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15,15	10				
9PKZU9	PowerPlex® Fusion 6C (TrueAllele)					
	16,3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20	6,7	10,11
	15	10	17	17		
9RQG87	GlobalFiler™					
	16,3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
9VPKMC	Investigator® 24plex (STRmix)					
	16,3,18.3	22,22	10,10	15,17	13,13	NA
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	NA	NA	20,20	6,7	10,11
	15,15	10	NA	NA	NA	
A27YUA	GlobalFiler™					
	16,3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
A4F2HU	GlobalFiler™					
	16,3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			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

A68ZWR	Identifiler® Plus					
		22		15,17	13	
4sp		9,10	12,15		12	11,12
		13,17	14,16.2	28,31.2	X,Y	7,9
		21,30.2			6,7	10,11
		15				
ALK22V	GlobalFiler™					
		16.3,18.3	22	10	15,17	13
4sp		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
ANK83Y	GlobalFiler™					
		16.3,18.3	22	10	15,17	13
4sp		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
AYMTHU	GlobalFiler™					
		16.3,18.3	22	10	15,17	13
4sp		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
AYQMDE	GlobalFiler™ (STRmix)					
		16.3,18.3	22	10	15,17	13
4sp		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
B8CBJZ	Identifiler® Plus					
			22,22		15,17	13,13
4sp		9,10	12,15			12,12
		13,17	14,16.2	28,31.2		X,Y
		21,30.2				6,7
		15,15				10,11
BBTCBK	PowerPlex® Fusion 6C					
		16.3,18.3	22,22	10,10	15,17	13,13
4sp		9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2	9,14	10,17	20,20	6,7
		15,15	10	17	17	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

BGZ28D	Investigator® 24plex (STRmix)					
	15,3,16,3,17,3,18,3	21,22	9,10,11	14,15,16,17	12,13	
4sp	9,10	11,12,14,15	12,13,14,16,17	16,17,19,20,21	8,11,12	11,12
	12,13,16,17	12,13,14,15,2,16,2	27,28,30,2,31,2	13,14,15,16,17	X,Y	7,9
	18,20,21,29,2,30,2			11,20,30,2	6,7	10,11
	14,15	10				
BKHZ43	GlobalFiler™					
	16,3,18,3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16,2	28,31,2	14,15	X,Y	7,9
	21,30,2			20,20	6,7	10,11
	15,15	10			2	
BL92AQ	Identifiler® Plus					
		22		15,17	13	
4sp	9,10	12,15			12	11,12
	13,17	14,16,2	28,31,2		X,Y	7,9
	21,30,2				6,7	10,11
	15					
BLD4RN	GlobalFiler™ (STRmix)					
	16,3,18,3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16,2	28,31,2	14,15	X,Y	7,9
	21,30,2			20	6,7	10,11
	15	10			2	
BREXTQ	Identifiler® Plus (in house software)					
		22,22		15,17	13,13	
4sp	9,10	12,15			12,12	11,12
	13,17	14,16	28,31,2		X,Y	7,9
	21,30,2				6,7	10,11
	15,15					
BRZAW6	PowerPlex® Fusion 6C					
	16,3,18,3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16,2	28,31,2	14,15	X,Y	7,9
	21,30,2	9,14	10,17	20	6,7	10,11
	15	10	17	17		
CDYXYK	PowerPlex® Fusion 5C					
	16,3,18,3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16,2	28,31,2	14,15	X,Y	7,9
	21,30,2	9,14	10,17		6,7	10,11
	15,15	10				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

CH7LCM	Identifiler® ID/ID Plus, GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
D6EGJG	Investigator® 24plex					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
D6MLED	Investigator® 24plex					
	15.3,16.3,17.3,18.3	17,22,25	9,10,11	14,15,16,17	11,12,13	
4sp	8,9,10	11,12,13,14,15	12,13,14,16,17	17,19,20,21	11,12	9,10,11,12
	12,13,15,16,17	12,13,14,15.2,16.2	27,28,30.2,31.2	13,14,15,16	X,Y	7,9,12
	20,21,29.2,30.2			11,19,20,21	6,7	9,10,11
	14,15	10				
DATTJ4	PowerPlex® Fusion					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				
DAUCGJ	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
DFYP44	PowerPlex® Fusion					
	16.3,18.3	22	10,11	15,17	13	
4sp	9,10	12,15	13,14,17	17,21	12	9,11,12
	13,15,17	14,16.2	28,31.2	14,15	X,Y	7,9,12
	21,30.2	9,14	10,12,17		6,7	10,11
	15	10				
DMXCWN	Identifiler® Plus					
		22		15,17	13	
4sp	9,10	12,15			12	11,12
	13,17	14,16.2	28,31.2		X,Y	7,9
	21,30.2				6,7	10,11
	15					

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

DP9HPX	PowerPlex® ESX16 fast					
	16.3,18.3	22	10	15,17		
4sp		12,15	13,17	17,21		11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	
	21,30.2				6,7	
	15					
DUFJX2	Identifiler®					
		22,22		15,17	13,13	
4sp	9,10	12,15			12,12	11,12
	13,17	14,16.2	28,31.2		X,Y	7,9
	21,30.2				6,7	10,11
	15,15					
DVXXJB	Investigator® 24plex (STRmix)					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10				
DXFECF	PowerPlex® Fusion					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15,15	10				
E6WARA	Investigator® 24plex QS (STRmix)					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
EANGBJ	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
EEHEXN	PowerPlex® Fusion					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15,15	10				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

EGAPZX	PowerPlex® Fusion 5C					
	13,16.3,18.3	17,22,25	10,11	14,15,16,17	11,12,13	
4sp	9,10	11,12,15	13,14,17	17,19,21	8,12	9,11,12
	13,15,16,17	12,14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	18,21,23,30.2	9,10,14	10,12,17		6,7,9.3	8,10,11
	15,16	10				
EN8Z68	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
EXCQDW	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
EY4PRU	PowerPlex® Fusion 5					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15,15	10				
EYMJDQ	PowerPlex® Fusion					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				
F4GBB7	Investigator® 24plex QS (STRmix)					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
F4GMWW	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			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

FAH482	PowerPlex® Fusion					
		16.3,18.3	22	10	15,17	13
	4sp	9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2	9,14	10,17		6,7
		15	10			10,11
FBFXZK	GlobalFiler™					
		16.3,18.3	22	10	15,17	13
	4sp	9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			10,11
FKMD9E	PowerPlex® Fusion					
		16.3,18.3	22,22	10,10	15,17	13,13
	4sp	9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2	9,14	10,17		6,7
		15,15	10			10,11
FWVRZY	Identifiler®					
			22,22		15,17	13,13
	4sp	9,10	12,15			12,12
		13,17	14,16.2	28,31.2		X,Y
		21,30.2				6,7
		15,15				10,11
G8CZWQ	GlobalFiler™					
		16.3,18.3	22,22	10,10	15,17	13,13
	4sp	9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20,20	6,7
		15,15	10			10,11
G99EJJ	NGM SElect					
		16.3,18.3	22,22	10,10	15,17	
	4sp		12,15	13,17	17,21	
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20,20	6,7
		15,15				
GLDXEA	Investigator® 24plex (STRmix)					
		16.3,18.3	22	10	15,17	13
	4sp	9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			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

GMA4KQ	GlobalFiler™						
		16.3,18.3	22	10	15,17	13	
	4sp	9,10	12,15	13,17	17,21	12	11,12
		13,17	14,16.2	28,31.2	14,15	X,Y	7,9
		21,30.2			11,20	6,7	10,11
	15	10			2		
GTA8N3	GlobalFiler™						
		16.3,18.3	22	10	15,17	13	
	4sp	9,10	12,15	13,17	17,21	12	11,12
		13,17	14,16.2	28,31.2	14,15	X,Y	7,9
		21,30.2			20	6,7	10,11
	15	10			2		
H23TFM	GlobalFiler™						
		16.3,18.3	22	10	15,17	13	
	4sp	9,10	12,15	13,17	17,21	12	11,12
		13,17	14,16.2	28,31.2	14,15	X,Y	7,9
		21,30.2			20	6,7	10,11
	15	10			2		
H6434A	PowerPlex® Fusion 5C						
		16.3,18.3	22,22	10,10	15,17	13,13	
	4sp	9,10	12,15	13,17	17,21	12,12	11,12
		13,17	14,16.2	28,31.2	14,15	X,Y	7,9
		21,30.2	9,14	10,17		6,7	10,11
	15,15	10					
H89VVM	Identifiler® Plus						
			22,22		15,17	13,13	
	4sp	9,10	12,15			12,12	11,12
		13,17	14,16.2	28,31.2		X,Y	7,9
		21,30.2				6,7	10,11
	15,15						
HAGYRJ	Investigator® 24plex (STRmix)						
		16.3,18.3	22,22	10,10	15,17	13,13	
	4sp	9,10	12,15	13,17	17,21	12,12	11,12
		13,17	14,16.2	28,31.2	14,15	X,Y	7,9
		21,30.2			20,20	6,7	10,11
	15,15	10					
HF7RCC	GlobalFiler™						
		[13],16.3,[17],18.3	[17],22,[25]	10,[11]	[14],15,[16],17	[11],[12],13	
	4sp	9,10	[11],12,15	13,[14],17	17,[19],21	[8],12	[9],11,12
		13,[15],[16],17	12,14,16.2	28,31.2	14,15,[17]	X,Y	7,9,[12]
		[18],21,[23],30.2			[11],20,[30.2]	6,7,[9.3]	[8],10,11,[-]
	15,[16]	10			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

HL9XRF	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
HXZ2ZU	PowerPlex® Fusion 6C (STRmix)					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
HYW3XQ	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
HYWENM	Investigator® 24plex					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
HYXUTD	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
JB7EVZ	PowerPlex® Fusion					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17		28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				
JKDDH	Investigator® 24plex (STRmix)					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				



TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

JM2939	Investigator® 24plex (STRMix)					
	15,3,16,3,17,3,18,3	17,22,25	9,10,11	14,15,16,17	11,12,13	
4sp	9,10	11,12,14,15	12,13,16,17	16,17,19,20,21	8,11,12	10,11,12
	12,13,16,17	12,13,14,15,2,16,2	27,28,30,2,31,2	13,14,15,16,17	X,Y	7,9,12
	18,20,21,29,2,30,2			11,20,30,2	6,7,9,3	8,10,11
	14,15,16	10				
JNBUGV	PowerPlex® Fusion					
	16,3,18,3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16,2	28,31,2	14,15	X,Y	7,9
	21,30,2	9,14	10,17		6,7	10,11
	15	10				
JRB4PC	PowerPlex® Fusion 5C					
	16,3,18,3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16,2	28,31,2	14,15	X,Y	7,9
	21,30,2	9,14	10,17		6,7	10,11
	15,15	10				
JVT7UW	PowerPlex® Fusion 5C					
	16,3,18,3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16,2	28,31,2	14,15	X,Y	7,9
	21,30,2	9,14	10,17		6,7	10,11
	15	10				
JXGZQH	Investigator® 24plex QS					
	16,3,18,3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16,2	28,31,2	14,15	X,Y	7,9
	21,30,2			20	6,7	10,11
	15	10				
K7AV48	Investigator® 24plex (STRMix)					
	16,3,18,3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16,2	28,31,2	14,15	X,Y	7,9
	21,30,2			20	6,7	10,11
	15	10				
K7RCAF	Investigator® 24plex (STRmix)					
	16,3,18,3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16,2	28,31,2	14,15	X,Y	7,9
	21,30,2			20,20	6,7	10,11
	15,15	10				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

KFU2ZB	PowerPlex® Fusion 6C					
	16,3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
KG829L	GlobalFiler™					
	16,3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9,[12]
	21,30.2			20	6,7	10,11
	15	10			2	
KJKV8X	PowerPlex® Fusion 6C					
	16,3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
KTPKTH	Investigator® 24plex (STRMix)					
	16,3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
KVMBNV	PowerPlex® Fusion					
	16,3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				
L8X3RV	PowerPlex® Fusion					
	16,3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				
L9CH8H	GlobalFiler™					
	16,3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			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

LBZ27U	GlobalFiler™					
		16.3,18.3	22,22	10,10	15,17	13,13
	4sp	9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20,20	6,7
		15,15	10			2
LCURAN	GlobalFiler™					
		16.3,18.3	22	10	15,17	13
	4sp	9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
LN4T3D	GlobalFiler™ (STRmix)					
		16.3,18.3	22	10	15,17	13
	4sp	9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
LNPLGW	Investigator® 24plex (STRmix)					
		16.3,18.3	22,22	10,10	15,17	13,13
	4sp	9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20,20	6,7
		15,15	10			
LR8XM9	GlobalFiler™					
		16.3,18.3	22,22	10,10	15,17	13,13
	4sp	9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20,20	6,7
		15,15	10			2
LTZEUG	GlobalFiler™ (STRMIX)					
		16.3,18.3	22	10	15,17	13
	4sp	9,10	12,15	13,17	17,21	8,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		15	10			2
LV7VX	Investigator® 24plex (STRmix)					
		16.3,18.3	22,22	10,10	15,17	13,13
	4sp	9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20,20	6,7
		15,15	10			

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

LWFJAK	Investigator® 24plex					
	16.3,18.3	22,22	10,10	15,17	13,13	Not Tested
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	Not Tested	Not Tested	20,20	6,7	10,11
	15,15	10	Not Tested	Not Tested	Not Tested	
LWHB68	Identifiler® Plus					
	Not Tested	22,22	Not Tested	15,17	13,13	Not Tested
4sp	9,10	12,15	Not Tested	Not Tested	12,12	11,12
	13,17	14,16.2	28,31.2	Not Tested	X,Y	7,9
	21,30.2	Not Tested	Not Tested	Not Tested	6,7	10,11
	15,15	Not Tested	Not Tested	Not Tested	Not Tested	
LXA8RF	Identifiler® Plus					
		22		15,17	13	
4sp	9,10	12,15			12	11,12
	13,17	14,16.2	28,31.2		X,Y	7,9
	21,30.2				6,7	10,11
	15					
M2CV2G	PowerPlex® Fusion					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15,15	10				
M8AC4T	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
M8UJDX	Investigator® 24plex (STRmix)					
	16.3,17.3,18.3	21,22	10,10	15,17	12,13	
4sp	9,10	12,15	12,13,16,17	16,17,19,20,21	11,12	11,12
	13,16,17	12,14,15.2,16.2	28,30.2,31.2	13,14,15	X,Y	7,9,12
	21,30.2			11,19,20	6,7,9.3	8,10,11
	14,15	9,10				
MCBQZC	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			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

MDJ2RA	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
MJ69GN	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
MPCK9Z	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
MX689R	Identifiler® Plus					
		22,22		15,17	13,13	
4sp	9,10	12,15			12,12	11,12
	13,17	14,16.2	28,31.2		X,Y	7,9
	21,30.2				6,7	10,11
	15,15					
MX8UTQ	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
NAFYCR	Identifiler®					
		22		15,17	13	
4sp	9,10	12,15			12	11,12
	13,17	14,16.2	28,31.2		X,Y	7,9
	21,30.2				6,7	10,11
	15					
NGEL27	Investigator® 24plex					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

NKUY3T	PowerPlex® Fusion					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				
NLC4KR	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
P434XM	Identifiler® Plus					
		22,22		15,17	13,13	
4sp	9,10	12,15			12,12	11,12
	13,17	14,16.2	28,31.2		X,Y	7,9
	21,30.2				6,7	10,11
	15,15					
P7T64A	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
PCKEEM	PowerPlex® 21 (STRmix)					
	16.3,18.3	22,22		15,17	13,13	11,12
4sp	9,10	12,15		17,21	12,12	11,12
	13,17	14,16.2	28,31.2		X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15,15					
PJJEV6	PowerPlex® Fusion 5C					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15,15	10				
PW6CUY	Investigator® 24plex (STRmix V2.4.06)					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

Q8KJ7T	Investigator® 24plex (STRmix)					
	15,3,16,3,17,3,18,3	21,22	9,10,11	14,15,16,17	12,13	
4sp	9,10	11,12,14,15	12,13,16,17	16,17,20,21	8,11,12	10,11,12
	12,13,15,16,17	13,14,15,2,16,2	27,28,30,2,31,2	13,14,15,16,17	X,Y	7,9,12
	20,21,30,2			19,20	6,7	10,11
	14,15	10				
QBX3V9	PowerPlex® Fusion 6C					
	16,3,18,3	22,22	10,10	15,17	13,13	Not Tested
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16,2	28,31,2	14,15	X,Y	7,9
	21,30,2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17	Not Tested	
QKLUH2	Investigator® 24plex					
	16,3,18,3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16,2	28,31,2	14,15	X,Y	7,9
	21,30,2			20,20	6,7	10,11
	15,15	10				
QLK2LE	GlobalFiler™					
	16,3,18,3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16,2	28,31,2	14,15	X,Y	7,9
	21,30,2			20,20	6,7	10,11
	15,15	10			2	
R6RGQC	GlobalFiler™					
	16,3,18,3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16,2	28,31,2	14,15	X,Y	7,9
	21,30,2			20	6,7	10,11
	15	10			2	
R8HFR9	GlobalFiler™					
	16,3,18,3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16,2	28,31,2	14,15	X,Y	7,9
	21,30,2			20	6,7	10,11
	15	10			2	
RLFYCZ	GlobalFiler™					
	16,3,18,3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16,2	28,31,2	14,15	X,Y	7,9
	21,30,2			20,20	6,7	10,11
	15,15	10			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

RLZK7B	Identifiler® Plus					
	-	22	-	15,17	13	-
4sp	9,10	12,15	-	-	12	11,12
	13,17	14,16.2	28,31.2	-	X,Y	7,9
	21,30.2	-	-	-	6,7	10,11
	15	-	-	-	-	-
RRNQXX	Investigator® 24plex (STRmix)					
	15.3,16.3,17.3,18.3	21,22	9,10	14,15,16,17	12,13	
4sp	9,10	11,12,14,15	12,13,16,17	16,17,20,21	8,11,12	10,11,12
	12,13,16,17	14,15.2,16.2	27,28,30.2,31.2	13,14,15	X,Y	7,9
	20,21,29.2,30.2			19,20,21	6,7	10,11
	14,15	10				
RY37BL	QIAamp® DNA Investigator Kit					
		22,22		15,17	13,13	
4sp	9,10	12,15			12,12	11,12
	13,17	14,16.2	28,31.2		X,Y	7,9
	21,30.2				6,7	10,11
	15,15					
T4VN7D	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
T6RELK	GlobalFiler™ (STRmix)					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
T7H87P	PowerPlex® Fusion 6C					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
TG49UC	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			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

TYHU7L	PowerPlex® Fusion					
	16,3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15	10				
U9KCGN	PowerPlex® ESX-17					
	16,3,18.3	22	10	15,17		
4sp		12,15	13,17	17,21		11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	
	21,30.2			20	6,7	
	15					
UEN2T8	PowerPlex® Fusion					
	16,3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15,15	10				
URXFCU	GlobalFiler™					
	16,3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			[11],20	6,7	10,11
	15	10			2	
UUN9XJ	GlobalFiler™					
	16,3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
V4PTZC	GlobalFiler™					
	16,3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
VE9ZLY	PowerPlex® Fusion 6C					
	16,3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	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 4sp - STR Results

VKA9TR	GlobalFiler™ (STRmix)					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
VMZRYE	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
VPQGGR	Investigator® 24plex QS (STRmix)					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10				
VRR29C	PowerPlex® Fusion 6C					
	13,16.3,18.3	17,22	10,10	15,16,17	13,13	
4sp	9,10	12,15	13,14,17	17,21	12,12	9,11,12
	13,15,16,17	14,16.2	28,31.2	14,15	X,Y	7,9,12
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
VW3AAG	PowerPlex® Fusion 6C (STRMix)					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17	20,20	6,7	10,11
	15,15	10	17	17		
VXGE9F	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
VXYMWA	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			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

YTW2P	Investigator® 24plex (STRmix)					
	16.3,18.3	22	10,11	15,17	12,13	
4sp	9,10	11,12,15	13,17	17,19,20,21	12	11,12
	13,17	14,16.2	28,31.2	14,15,17	X,Y	7,9,12
	21,23,30.2			19,20	6,7	10,11
	14,15,16	10				
WDBG9J	GlobalFiler™					
	16.3,18.3	22	10	14,15,16,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	12,14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
WW3MGA	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
XBV4UR	Investigator® 24plex (STRmix)					
	15.3,16.3,17.3,18.3	21,22	9,10,11	14,15,16,17	11,12,13	
4sp	8,9,10	11,12,14,15	12,13,16,17	16,17,19,20,21	8,11,12	10,11,12
	12,13,15,16,17	12,13,14,15.2,16.2	27,28,30.2,31.2	13,14,15,16	X,Y	7,8,9,12
	18,20,21,29.2,30.2			11,20,30.2	6,7	8,10,11
	14,15,16	10				
XCQ42X	GlobalFiler™					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
XG7ZY2	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	
XHXTGK	PowerPlex® Fusion					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15,15	10				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

XLD3QH	PowerPlex® Fusion						
		16.3,18.3	22	10	15,17	13	
	4sp	9,10	12,15	13,17	17,21	12	11,12
		13,17	14,16.2	28,31.2	14,15	X,Y	7,9
		21,30.2	9,14	10,17		6,7	10,11
		15	10				
XUCHLH	GlobalFiler™						
		16.3,18.3	22	10	15,17	13	
	4sp	9,10	12,15	13,17	17,21	12	11,12
		13,17	14,16.2	28,31.2	14,15	X,Y	7,9
		21,30.2			20	6,7	10,11
		15	10			2	
Y6NXRU	PowerPlex® Fusion						
		16.3,18.3	22,22	10,10	15,17	13,13	
	4sp	9,10	12,15	13,17	17,21	12,12	11,12
		13,17	14,16.2	28,31.2	14,15	X,Y	7,9
		21,30.2	9,14	10,17		6,7	10,11
		15,15	10				
YAWZJB	GlobalFiler™						
		16.3,18.3	22	10	15,17	13	
	4sp	9,10	12,15	13,17	17,21	12	11,12
		13,17	14,16.2	28,31.2	14,15	X,Y	7,9
		21,30.2			20	6,7	10,11
		15	10			2	
YCMYXA	GlobalFiler™						
		16.3,18.3	22,22	10,10	15,17	13,13	
	4sp	9,10	12,15	13,17	17,21	12,12	11,12
		13,17	14,16.2	28,31.2	14,15	X,Y	7,9
		21,30.2			20,20	6,7	10,11
		15,15	10			2	
YEA4MC	Identifiler® ID+ (STRmix)						
			22,22		15,17	13,13	
	4sp	9,10	12,15			12,12	11,12
		13,17	14,16.2	28,31.2		X,Y	7,9
		21,30.2				6,7	10,11
		15,15					
YETJLA	PowerPlex® Fusion 5C						
		16.3,18.3	22,22	10,10	15,17	13,13	
	4sp	9,10	12,15	13,17	17,21	12,12	11,12
		13,17	14,16.2	28,31.2	14,15	X,Y	7,9
		21,30.2	9,14	10,17		6,7	10,11
		15,15	10				

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)					
Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	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

YMJ8GC	GlobalFiler™					
		16.3,18.3	22	10	15,17	13
4sp		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		10,11				
		15	10			2
YR3M44	PowerPlex® Fusion					
		16.3,18.3	22,22	10,10	15,17	13,13
4sp		9,10	12,15	13,17	17,21	12,12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2	9,14	10,17		6,7
		10,11				
		15,15	10			
Z2HBK3	Identifiler® Plus					
		-	22	-	15,17	13
4sp		9,10	12,15	-	-	12
		13,17	14,16.2	28,31.2	-	X,Y
		21,30.2	-	-	-	6,7
		10,11				
		15	-	-	-	-
Z94PJM	GlobalFiler™					
		16.3,18.3	22	10	15,17	13
4sp		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		10,11				
		15	10			2
ZC4ZEM	GlobalFiler™					
		16.3,18.3	22,25	10	15,17	13
4sp		9,10	12,15	13,17	17,21	12
		13,15,17	12,14,16.2	28,31.2	14,15	X,Y
		21,23,30.2			20	6,7
		10,11				
		15	10			2
ZEBDWN	Investigator® 24plex (StRmix)					
		16.3,18.3	22	10	14,15,16,17	12,13
4sp		9,10	11,12,15	13,14,17	17,21	12
		13,16,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2			20	6,7
		10,11				
		15	10			
ZM6ZWF	PowerPlex® Fusion 6C					
		16.3,18.3	22	10	15,17	13
4sp		9,10	12,15	13,17	17,21	12
		13,17	14,16.2	28,31.2	14,15	X,Y
		21,30.2	9,14	10,17	20	6,7
		10,11				
		15	10	17	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 4sp - STR Results

ZP8ZT7	GlobalFiler™, Investigator® 24plex					
	16.3,18.3	22,22	10,10	15,17	13,13	
4sp	9,10	12,15	13,17	17,21	12,12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20,20	6,7	10,11
	15,15	10			2	
ZQKVQC	PowerPlex® 21					
	16.3,18.3	22		15,17	13	11,12
4sp	9,10	12,15		17,21	12	11,12
	13,17	14,16.2	28,31.2		X,Y	7,9
	21,30.2	9,14	10,17		6,7	10,11
	15,15					
ZU2TAF	GlobalFiler™					
	16.3,18.3	22	10	15,17	13	
4sp	9,10	12,15	13,17	17,21	12	11,12
	13,17	14,16.2	28,31.2	14,15	X,Y	7,9
	21,30.2			20	6,7	10,11
	15	10			2	

# 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	Y GATA H4

## Item 1 - YSTR Results

6QTWUW	Yfiler™								
1	[REDACTED]								
EEHEXN									
1	NT	NT	NT	NT	NT	NT	NT	NT	NT
G8EGFJ	Yfiler™								
1	[REDACTED]								
KZLFQF	Yfiler™								
1	[REDACTED]								
QKLUH2	PowerPlex® Y 23								
1	No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results
1	No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results
1	No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results
RLFXU9	Yfiler™								
1	[REDACTED]								
VC34T4	Yfiler™								
1	[REDACTED]								
ZU2TAF	Yfiler™ Plus								
1	NR	NR	NR	NR	NR	NR	NR	NR	NR
1	NR	NR	NR	NR	NR	NR	NR	NR	NR
1	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	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
2YPYZM	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
32XW3N	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
3BHK3C	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
3P33VF	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
3TMBEU	Yfiler™									
	NT	14	17,18	13	30	21	10	11	13	
2	13	11	12	21	NT	16	16	NT	NT	
	NT	NT	NT	NT	NT	NT	21	NT	11	
42R3WM	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
4DKZN9	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
4PW9PE	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11		17	17		21		11	
6D3UZM	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
6F7ZQA	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
2	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
6N7PHT	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
6NWMEK	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	



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	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
6QTWUW	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2		13	11	12	21	16	16			
							21		11	
6RJ4TY	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2		13	11	12	21	16	16			
							21		11	
6VKVUP	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2		13	11	12	21	16	16			
							21		11	
7DE6H8	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2		13	11	12	21	16	16		24	
		11	11	17	17		21	13	11	
7M4E3F	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2		13	11	12	21	16	16		24	
		11	11	17	17		21	13	11	
7Q2DHU	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2		13	11	12	21	16	16		24	
		11	11	17	17		21	13	11	
83DFZW	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2		13	11	12	21	16	16		24	
		11	11	17	17		21	13	11	
84RJWA	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
2		13	11	12	21	34	16	16	11	24
	40	11		17	17	17	21		11	
8EL6R8	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2		13	11	12	21	16	16			
							21		11	
8NUZ7Q	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2		13	11	12	21	16	16			
							21		11	
8RV4XD	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2		13	11	12	21	16	16			
							21		11	
93MTW6	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2		13	11	12	21	16	16		24	
		11	11	17	17		21	13	11	

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	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
96DN68	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
2	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
9PKZU9	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
9RQG87	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
2	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
A27YUA	Yfiler™ Plus (Direct)									
	38,39	14	17,18	13	30	21	10	11	13	
2	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
A3HTDG	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
A68ZWR	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
ALK22V	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
AYMTHU	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
BGZ28D	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
BL92AQ	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
BLD4RN	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
BREXTQ	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	

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	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
CPPRBE	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
D6MLED	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
DATTJ4	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
DAUCGJ	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
DFYP44	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
DMXCWN	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
DVXXJB	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
DXFECE	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
EANGBJ	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
EEHEXN	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
EXCQDW	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
2	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
F4GBB7	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	

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	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
F4GMWW	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
2	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
FAH482	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
FBFXZK	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
FKMD9E	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
G8EGFJ	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
G99EJJ	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
GLDXEA	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
GTA8N3	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
2	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
H23TFM	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
HAGYRJ	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
HL9XRF	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
HXZ2ZU	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	

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	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
HYXUTD	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21			11
JB7EVZ	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
JNBUGV	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21			11
JRB4PC	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
JVT7UW	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21			11
K7AV48	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
KFU2ZB	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21			11
KVMBNV	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21			11
KZLFQF	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21			11
L8X3RV	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21			11
L9CH8H	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
LCURAN	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
2	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21			11

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	Y GATA H4
<b>Item 2 - YSTR Results</b>									
LWHB68	PowerPlex® Y 23								
	Not Tested	14	17,18	13	30	21	10	11	13
2	13	11	12	21	Not Tested	16	16	Not Tested	24
	Not Tested	11	11	17	17	Not Tested	21	13	11
LXA8RF	Yfiler™								
		14	17,18	13	30	21	10	11	13
2	13	11	12	21		16	16		
							21		11
M2CV2G	PowerPlex® Y 23								
		14	17,18	13	30	21	10	11	13
2	13	11	12	21		16	16		24
		11	11	17	17		21	13	11
M8AC4T	Yfiler™ Plus								
	38,39	14	17,18	13	30	21	10	11	13
2	13	11	12	21	34	16	16	11	24
	40	11		17	17	17	21		11
MDJ2RA	Yfiler™								
		14	17,18	13	30	21	10	11	13
2	13	11	12	21		16	16		
							21		11
MJ69GN	Yfiler™ Plus								
	38,39	14	17,18	13	30	21	10	11	13
2	13	11	12	21	34	16	16	11	24
	40	11		17	17	17	21		11
MX8UTQ	PowerPlex® Y 23								
		14	17,18	13	30	21	10	11	13
2	13	11	12	21		16	16		24
		11	11	17	17		21	13	11
NKUY3T	Yfiler™								
		14	17,18	13	30	21	10	11	13
2	13	11	12	21		16	16		
							21		11
NLC4KR	Yfiler™ Plus								
	38,39	14	17,18	13	30	21	10	11	13
2	13	11	12	21	34	16	16	11	24
	40	11		17	17	17	21		11
P434XM	PowerPlex® Y 23								
		14	17,18	13	30	21	10	11	13
2	13	11	12	21		16	16		24
		11	11	17	17		21	13	11
QKLUH2	PowerPlex® Y 23								
		14	17,18	13	30	21	10	11	13
2	13	11	12	21		16	16		24
		11	11	17	17		21	13	11
QLK2LE	PowerPlex® Y 23								
		14	17,18	13	30	21	10	11	13
2	13	11	12	21		16	16		24
		11	11	17	17		21	13	11

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	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
R6RGQC	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2		13	11	12	21	16	16			
							21		11	
R8HFR9	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2		13	11	12	21	16	16			
							21		11	
RLFXU9	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2		13	11	12	21	16	16			
							21		11	
RLZK7B	Yfiler™									
		-	14	17,18	13	30	21	10	11	13
2		13	11	12	21	-	16	16	-	-
		-	-	-	-	-	21	-	11	
RRNQXX	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2		13	11	12	21	16	16			
							21		11	
RTX8ZW	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2		13	11	12	21	16	16		24	
		11	11	17	17		21	13	11	
T6RELK	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
2		13	11	12	21	34	16	16	11	24
	40	11		17	17	17	21			11
TG49UC	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2		13	11	12	21	16	16		24	
		11	11	17	17		21	13	11	
TYHU7L	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2		13	11	12	21	16	16			
							21		11	
U9KCGN	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2		13	11	12	21	16	16		24	
		11	11	17	17		21	13	11	
UEN2T8	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2		13	11	12	21	16	16		24	
		11	11	17	17		21	13	11	
UUN9XJ	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2		13	11	12	21	16	16		24	
		11	11	17	17		21	13	11	

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	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
VC34T4	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
VE9ZLY	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
VKA9TR	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
VMZRYE	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
2	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
VW3AAG	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
VXGE9F	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
2	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
VXYMWA	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
WDBG9J	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
2	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
XBV4UR	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
XLD3QH	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
XUCHLH	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
2	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
Y6NXRU	PowerPlex® Y					PowerPlex® Y23				
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	



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	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
YAWZJB	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
2	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
YEA4MC	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
YMJ8GC	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
2	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
YR3M44	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
Z2HBK3	Yfiler™									
	-	14	17,18	13	30	21	10	11	13	
2	13	11	12	21	-	16	16	-	-	
	-	-	-	-	-	-	21	-	11	
ZEBDWN	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
ZP8ZT7	Yfiler™									
		14	17,18	13	30	21	10	11	13	
2	13	11	12	21		16	16			
							21		11	
ZU2TAF	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
2	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	

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	Y GATA H4

Item 3 - YSTR Results

7Q2DHU	PowerPlex® Y 23								
		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
8EL6R8	Yfiler™								
		NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
							NR		NR
AYMTHU	Yfiler™								
		NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
							NR		NR
DATTJ4	Yfiler™								
		NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
							NR		NR
DFYP44	Yfiler™								
		NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
							NR		NR
EEHEXN									
		NT	NT	NT	NT	NT	NT	NT	NT
3	NT	NT	NT	NT	NT	NT	NT	NT	NT
		NT	NT	NT	NT	NT	NT	NT	NT
FAH482	Yfiler™								
		NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
							NR		NR
FKMD9E	PowerPlex® Y 23								
3									
HAGYRJ	Yfiler™								
		NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
							NR		NR
JNBUGV	Yfiler™								
		NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
							NR		NR
JRB4PC	PowerPlex® Y 23								
		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
JVT7UW	Yfiler™								
		NR	NR	NR	NR	NR	NR	NR	NR
3	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	Y GATA H4
<b>Item 3 - YSTR Results</b>									
KVMBNV	Yfiler™								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
L8X3RV	Yfiler™								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
LWHB68	PowerPlex® Y 23								
3	No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results
NKUY3T	Yfiler™								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
QKLUH2	PowerPlex® Y 23								
3	No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results
TYHU7L	Yfiler™								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
VXYMWA	PowerPlex® Y 23								
3	No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results
XLD3QH	Yfiler™								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
ZU2TAF	Yfiler™ Plus								
3	NR	NR	NR	NR	NR	NR	NR	NR	NR

TABLE 2

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

Item 4 - YSTR Results

4PW9PE	PowerPlex® Y 23								
		14	17,18	13	30	21	10	11	13
4	13	11	12	21		16	16		24
		11		17	17		21		11
RTX8ZW	PowerPlex® Y 23								
		14	17,18	13	30	21	10	11	13
4	13	11	12	21		16	16		24
		11	11	17	17		21	13	11

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	Y GATA H4	
<b>Item 4e - YSTR Results</b>										
32XW3N	PowerPlex® Y 23									
			17,18	13	30	21	10			13
4e										
			11	17	17		21	13		11
3BHK3C	PowerPlex® Y 23									
4e										
3P33VF	PowerPlex® Y 23									
4e										
3TMBEU	Yfiler™									
4e										
42R3WM	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11		13
4e	13 11 12 21 16 16 24									
		11	11	17	17		21	13		11
4DKZN9	PowerPlex® Y 23									
4e										
6D3UZM	Yfiler™									
		14	17,18	13	30	21	10	11		13
4e	13 11 12 21 16 16 21 11									
6F7ZQA	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11		13
4e	13 11 12 21 34 16 16 11 24									
	40	11		17	17	17	21			11
6N7PHT	Yfiler™									
4e										
6VKVUP	Yfiler™									
4e										
7DE6H8	PowerPlex® Y 23									
4e										
7M4E3F	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11		13
4e	13 11 12 21 16 16 24									
		11	11	17	17		21	13		11

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	Y GATA H4

Item 4e - YSTR Results

7Q2DHU	PowerPlex® Y 23								
		14	17,18	13	30	21	10	11	13
4e	13	11	12	21		16	16		24
		11	11	17	17		21	13	11
83DFZW	PowerPlex® Y 23								
4e									
84RJWA	Yfiler™ Plus								
	38,39	14	17,18	13	30	21	10	11	13
4e	13	11	12	21	34	16	16	11	24
	40	11		17	17	17	21		11
8EL6R8	Yfiler™								
		14	17,18	13	30	21	10	11	13
4e	13	11	12	21		16	16		
							21		11
8NUZ7Q	Yfiler™								
4e									
8RV4XD	Yfiler™								
		14	17,18	13	30	21	10	11	13
4e	13	11	12	21		16	16		
							21		11
93MTW6	PowerPlex® Y 23								
4e									
96DN68	Yfiler™ Plus								
	38,39	14	17,18	13	30	21	10	11	13
4e	13	11	12	21	34	16	16	11	24
	40	11		17	17	17	21		11
9PKZU9	Yfiler™								
		14	17,18	13	30	21	10	11	13
4e	13	11	12	21		16	16		
							21		11
9RQG87	Yfiler™ Plus								
	38,39	14	17,18	13	30	21	10	11	13
4e	13	11	12	21	34	16	16	11	24
	40	11		17	17	17	21		11
A27YUA	Yfiler™ Plus								
	38,39	14	17,18	13	30	21	10	11	13
4e	13	11	12	21	34	16	16	11	24
	40	11		17	17	17	21		11
A68ZWR	Yfiler™								
		14	17,18	13	30	21	10	11	13
4e	13	11	12	21		16	16		
							21		11

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	Y GATA H4

Item 4e - YSTR Results

ALK22V	PowerPlex® Y 23								
4e	[REDACTED]								
AYMTHU	Yfiler™								
4e	13	14	17,18	13	30	21	10		13
		11		21		16	16		
									11
BGZ28D	Yfiler™								
4e		14				16			13
BL92AQ	Yfiler™								
4e	13	14	17,18	13	30	21	10	11	13
		11	12	21		16	16		
							21		11
BLD4RN	PowerPlex® Y 23								
4e	13	14	17,18	13	30	21	10	11	13
		11	12	21		16	16		24
		11	11	17	17		21	13	11
BREXTQ	PowerPlex® Y 23								
4e	[REDACTED]								
D6MLED	PowerPlex® Y 23								
4e	13	14	17,18	13	30	21	10	11	13
		11	12	21		INC	16		24
			11	17	17		21	INC	11
DATTJ4	Yfiler™								
4e	13	14	17,18	13	30	21	10	11	13
		11	12	21		16	16		
							21		11
DAUCGJ	Yfiler™								
4e	[REDACTED]								
DFYP44	Yfiler™								
4e	13	14	17,18	13	30	21	10	11	13
		11	12	21		16	16		
							21		11
DMXCWN	Yfiler™								
4e	13	14	17,18	13	30	21	10	11	13
		11	12	21		16	16		
							21		11
DVXXJB	Yfiler™								
4e	13	14	17,18	13	30	21	10	11	13
		11	12	21		16	16		
							21		11

TABLE 2

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

## Item 4e - YSTR Results

DXFECE	PowerPlex® Y 23								
4e									
EANGBJ	Yfiler™								
4e									
EEHEXN	PowerPlex® Y 23								
		14	17,18	13	30	21	10	11	13
4e	13	11	12	21		16	16		24
		11	11	17	17		21	13	11
EXCQDW	Yfiler™ Plus								
	38,39	14	17,18	13	30	21	10	11	13
4e	13	11	12	21	34	16	16	11	24
	40	11		17	17	17	21		11
F4GBB7	PowerPlex® Y 23								
		14	17,18	13	30	21	10	11	13
4e	13	11	12	21		16	16		24
		11	11	17	17		21	13	11
F4GMWW	Yfiler™ Plus								
	38,39	14	17,18	13	30	21	10	11	13
4e	13	11	12	21	34	16	16	11	24
	40	11		17	17	17	21		11
FAH482	Yfiler™								
		14	17,18	13	30	21	10	11	13
4e	13	11	12	21		16	16		
							21		11
FBFXZK	Yfiler™								
		14	17,18	13	30	21	10	11	13
4e	13	11	12	21		16	16		
							21		11
FKMD9E	PowerPlex® Y 23								
		14	17,18	13		21	10	11	13
4e	13	11	12				16		24
			11	17	17		21		11
G99EJJ	PowerPlex® Y 23								
4e									
GLDXEA	PowerPlex® Y 23								
		14	17,18	13	30	21	10	11	13
4e	13	11	12	21		16	16		24
		11	11	17	17		21	13	11
GTA8N3	Yfiler™ Plus								
	38,39	14	17,18	13	30	21	10	11	13
4e	13	11	12	21	34	16	16	11	24
	40	11		17	17	17	21		11



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	Y GATA H4

Item 4e - YSTR Results

H23TFM	PowerPlex® Y 23								
4e	[Redacted]								
HAGYRJ	Yfiler™								
4e	13	NR	NR	13	NR	NR	10	NR	13
		NR	NR	NR		NR	16		11
							NR		
HL9XRF	Yfiler™								
4e	[Redacted]								
HXZ2ZU	PowerPlex® Y 23								
4e	13	14	17,18	13	30	21	10	11	13
		11	12	21		16	16		24
		11	11	17	17		21	13	11
HYXUTD	Yfiler™								
4e	[Redacted]								
JB7EVZ	Yfiler™, PowerPlex® Y 23								
4e	[Redacted]								
JNBUGV	Yfiler™								
4e	13	14	17,18	13	30	21	10	11	13
		11	12	21		16	16		11
							21		
JRB4PC	PowerPlex® Y 23								
4e	13	14	17,18	13	30	21	10	11	13
		11	12	21		16	16		24
		11	11	17	17		21	13	11
JVT7UW	Yfiler™								
4e	13	14	17,18	13	30	21	10	11	13
		11	12	21		16	16		11
							21		
K7AV48	PowerPlex® Y 23								
4e	13	14	17,18	13	30	21	10	11	13
		11	12	21		16	16		24
		11	11	17	17		21	13	11
KFU2ZB	Yfiler™								
4e	[Redacted]								
KVMBNV	Yfiler™								
4e	13	14	17,18	13	30	21	10	11	13
		11	12	21		16	16		11
							21		

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	Y GATA H4	
<b>Item 4e - YSTR Results</b>										
L8X3RV	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4e	13	11	12	21		16	16			
							21		11	
L9CH8H	PowerPlex® Y 23									
4e										
LCURAN	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4e	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
LWHB68	PowerPlex® Y 23									
	Not Tested	14	17,18	13	30	21	10	11	13	
4e	13	11	12	21	Not Tested	16	16	Not Tested	24	
	Not Tested	11	11	17	17	Not Tested	21	13	11	
LXA8RF	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4e	13	11	12	21		16	16			
							21		11	
M2CV2G	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4e	13	11	12	21		16	16		24	
		11	11	17	17		21	13		
M8AC4T	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4e	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
MDJ2RA	Yfiler™									
4e										
MJ69GN	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4e	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
MX8UTQ	PowerPlex® Y 23									
4e										
NKUY3T	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4e	13	11	12	21		16	16			
							21		11	
NLC4KR	Yfiler™ Plus									
4e										

TABLE 2

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

## Item 4e - YSTR Results

P434XM	PowerPlex® Y 23								
4e									
QKLUH2	PowerPlex® Y 23								
		14	17,18	13	30	21	10	11	13
4e	13	11	12	21		16	16		24
		11	11	17	17		21	13	11
QLK2LE	PowerPlex® Y 23								
		14	17,18	13	30	21	10	11	13
4e	13	11	12	21		16	16		24
		11	11	17	17		21	13	11
R6RGQC	Yfiler™								
		14	17,18	13	30	21	10	11	13
4e	13	11	12	21		16	16		
							21		11
R8HFR9	Yfiler™								
4e									
RLZK7B	Yfiler™								
	-	14	17,18	13	30	21	10	11	13
4e	13	11	12	21	-	16	16	-	-
	-	-	-	-	-	-	21	-	11
RRNQXX	Yfiler™								
4e									
T6RELK	Yfiler™ Plus								
	38,39	14	17,18	13	30	21	10	11	13
4e	13	11	12	21	34	16	16	11	24
	40	11		17	17	17	21		11
TG49UC	PowerPlex® Y 23								
4e									
TYHU7L	Yfiler™								
		14	17,18	13	30	21	10	11	13
4e	13	11	12	21		16	16		
							21		11
U9KCGN	PowerPlex® Y 23								
		14	17,18	13	30	21	10	11	13
4e	13	11	12	21		16	16		24
		11	11	17	17		21	13	11
UEN2T8	PowerPlex® Y 23								
			17,18	13	30	21	10		13
4e		11	12	21		16	16		24
			11	17	17		21		

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	Y GATA H4

## Item 4e - YSTR Results

UUN9XJ	PowerPlex® Y 23								
4e									
VE9ZLY	Yfiler™								
4e									
VKA9TR	PowerPlex® Y 23								
4e	14	17,18	13	30	21	10	11	13	
	13	11	12	21	16	16		24	
	11	11	17	17		21	13	11	
VMZRYE	Yfiler™ Plus								
4e	38,39	14	17,18	13	30	21	10	11	13
	13	11	12	21	34	16	16	11	24
	40	11		17	17	17	21		11
VW3AAG	PowerPlex® Y 23								
4e									
VXGE9F	Yfiler™ Plus								
4e	38,39	14	17,18	13	30	21	10	11	13
	13	11	12	21	34	16	16	11	24
	40	11		17	17	17	21		11
VXYMWA	PowerPlex® Y 23								
4e	14	17,18	13	30	21	10	11	13	
	13	11	12	No Results	16	16		24	
	11	11	17	17		21	13	11	
WDBG9J	Yfiler™ Plus								
4e	38,39	14	17,18	13	30	21	10	11	13
	13	11	12	21	34	16	16	11	24
	40	11		17	17	17	21		11
XBV4UR	PowerPlex® Y 23								
4e	14	17,18	13	30	21	10	11	13	
	13	11	12	21	16	16		24	
	11	11	17	17		21	13	11	
XLD3QH	Yfiler™								
4e	14	17,18	13	30	21	10	11	13	
	13	11	12	21	16	16			
						21		11	
XUCHLH	Yfiler™ Plus								
4e	38,39	14	17,18	13	30	21	10	11	13
	13	11	12	21	34	16	16	11	24
	40	11		17	17	17	21		11
Y6NXRU	PowerPlex® Y PowerPlex Y23								
4e	14	17,18	13		21	10	11	13	
	11	12	21			16		24	
	11	11	17	17		21		11	

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	Y GATA H4	
<b>Item 4e - YSTR Results</b>										
YAWZJB	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4e	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
YEA4MC	PowerPlex® Y 23									
		NT	NT	NT	NT	NT	NT	NT	NT	NT
4e	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
		NT	NT	NT	NT		NT	NT	NT	NT
YMJ8GC	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4e	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
YR3M44	PowerPlex® Y 23									
		14	17,18	13		21	10	11	13	
4e	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
Z2HBK3	Yfiler™									
	-	14	17,18	13	30	21	10	11	13	
4e	13	11	12	21	-	16	16	-	-	
	-	-	-	-	-	-	21	-	11	
ZEBDWN	Yfiler™									
4e	13		12			16				
									11	
ZP8ZT7	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4e	13	11	12	21		16	16			
							21		11	
ZU2TAF	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4e	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	

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	Y GATA H4	
<b>Item 4sp - YSTR Results</b>										
32XW3N	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
3BHK3C	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
3P33VF	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
3TMBEU	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
42R3WM	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
4DKZN9	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
6D3UZM	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
6F7ZQA	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
6N7PHT	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
6VKVUP	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
7DE6H8	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
7M4E3F	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	

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	Y GATA H4	
<b>Item 4sp - YSTR Results</b>										
7Q2DHU	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
83DFZW	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
84RJWA	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
8EL6R8	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
8NUZ7Q	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
8RV4XD	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
93MTW6	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
96DN68	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
9PKZU9	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
9RQG87	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
A27YUA	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
A68ZWR	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	

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	Y GATA H4	
<b>Item 4sp - YSTR Results</b>										
ALK22V	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
AYMTHU	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
BGZ28D	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
BL92AQ	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
BLD4RN	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
BREXTQ	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
D6MLED	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
DATTJ4	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
DAUCGJ	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
DFYP44	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
DMXCWN	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
DVXXJB	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	



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	Y GATA H4	
<b>Item 4sp - YSTR Results</b>										
DXFEFC	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
EANGBJ	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
							21		11	
EEHEXN	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
EXCQDW	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
F4GBB7	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
F4GMWW	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
FAH482	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
							21		11	
FBFXZK	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
							21		11	
FKMD9E	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
G99EJJ	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
GLDXEA	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
GTABN3	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	

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	Y GATA H4
<b>Item 4sp - YSTR Results</b>									
H23TFM	PowerPlex® Y 23								
		14	17,18	13	30	21	10	11	13
4sp	13	11	12	21		16	16		24
		11	11	17	17		21	13	11
HAGYRJ	Yfiler™								
		14	17,18	13	30	21	10	11	13
4sp	13	11	12	21		16	16		
							21		11
HL9XRF	Yfiler™								
		14	17,18	13	30	21	10	11	13
4sp	13	11	12	21		16	16		
							21		11
HXZ2ZU	PowerPlex® Y 23								
		14	17,18	13	30	21	10	11	13
4sp	13	11	12	21		16	16		24
		11	11	17	17		21	13	11
HYXUTD	Yfiler™								
		14	17,18	13	30	21	10	11	13
4sp	13	11	12	21		16	16		
							21		11
JB7EVZ	Yfiler™, PowerPlex® Y 23								
		14	17,18	13	30	21	10	11	13
4sp	13	11	12	21		16	16		24
		11	11	17	17		21	13	11
JNBUGV	Yfiler™								
		14	17,18	13	30	21	10	11	13
4sp	13	11	12	21		16	16		
							21		11
JRB4PC	PowerPlex® Y 23								
		14	17,18	13	30	21	10	11	13
4sp	13	11	12	21		16	16		24
		11	11	17	17		21	13	11
JVT7UW	Yfiler™								
		14	17,18	13	30	21	10	11	13
4sp	13	11	12	21		16	16		
							21		11
K7AV48	PowerPlex® Y 23								
		14	17,18	13	30	21	10	11	13
4sp	13	11	12	21		16	16		24
		11	11	17	17		21	13	11
KFU2ZB	Yfiler™								
		14	17,18	13	30	21	10	11	13
4sp	13	11	12	21		16	16		
							21		11
KVMBNV	Yfiler™								
		14	17,18	13	30	21	10	11	13
4sp	13	11	12	21		16	16		
							21		11

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	Y GATA H4	
<b>Item 4sp - YSTR Results</b>										
L8X3RV	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21			11
L9CH8H	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
LCURAN	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
LWHB68	PowerPlex® Y 23									
	Not Tested	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	Not Tested	16	16	Not Tested	24	
	Not Tested	11	11	17	17	Not Tested	21	13	11	
LXA8RF	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21			11
M2CV2G	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
M8AC4T	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
MDJ2RA	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21			11
MJ69GN	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
MX8UTQ	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
NKUY3T	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21			11
NLC4KR	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	

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	Y GATA H4	
<b>Item 4sp - YSTR Results</b>										
P434XM	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
QKLUH2	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
QLK2LE	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
R6RGQC	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
R8HFR9	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
RLZK7B	Yfiler™									
	-	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	-	16	16	-	-	
	-	-	-	-	-	-	21	-	11	
RRNQXX	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
T6RELK	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
TG49UC	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
TYHU7L	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
U9KCGN	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
UEN2T8	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	

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	Y GATA H4	
<b>Item 4sp - YSTR Results</b>										
UUN9XJ	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
VE9ZLY	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
VKA9TR	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
VMZRYE	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
VW3AAG	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
VXGE9F	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
VXYMWA	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
WDBG9J	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
XBV4UR	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
XLD3QH	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
XUCHLH	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
Y6NXRU	PowerPlex® Y PowerPlex Y23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	

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	Y GATA H4	
<b>Item 4sp - YSTR Results</b>										
YAWZJB	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
YEA4MC	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
YMJ8GC	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	
YR3M44	PowerPlex® Y 23									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16		24	
		11	11	17	17		21	13	11	
Z2HBK3	Yfiler™									
	-	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	-	16	16	-	-	
	-	-	-	-	-	-	21	-	11	
ZEBDWN	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
ZP8ZT7	Yfiler™									
		14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21		16	16			
							21		11	
ZU2TAF	Yfiler™ Plus									
	38,39	14	17,18	13	30	21	10	11	13	
4sp	13	11	12	21	34	16	16	11	24	
	40	11		17	17	17	21		11	

# Additional DNA Results

## TABLE 3

Locus	WebCode	Item 1	Item 2	Item 3	Item 3e	Item 3sp	Item 4	Item 4e	Item 4sp
AMELOGENIN	436C8A							n/a	X,Y
CSF1PO	436C8A							n/a	7,9,[12]
D10S1248	436C8A							n/a	13,[14],17
D10S2325	RTX8ZW	11	6,13	11			6,11,13		
D12S391	436C8A							n/a	17,[19],21
D13S317	436C8A							n/a	[8],12
D16S539	436C8A							n/a	[9],11,12
D18S51	436C8A							n/a	13,[15],[16],17
D19S433	436C8A							n/a	12,14,16.2
D1S1656	436C8A							n/a	16.3,18.3
D21S11	436C8A							n/a	28,31.2
D21S2055	RTX8ZW	31,32	25,30	31,32			25,30,31,32		
D22S1045	436C8A							n/a	14,15,[17]
D2S1338	436C8A							n/a	[17],22,[25]
D2S1360	RTX8ZW	22,25	26,28	22,25			22,25,26,28		
D2S441	436C8A							n/a	10,[11]
D3S1358	436C8A							n/a	[14],15,[16],17
D3S1744	RTX8ZW	19	14,20	19			14,19,20		
D4S2366	RTX8ZW	9	10,11.2	9			9,10,11.2		
D5S2500	RTX8ZW	11,15	14,15	11,15			11,14,15		
D5S818	436C8A							n/a	[11],13
D6S474	RTX8ZW	14,17	13,16	14,17			13,14,16,17		

TABLE 3

Locus	WebCode	Item 1	Item 2	Item 3	Item 3e	Item 3sp	Item 4	Item 4e	Item 4sp
D7S1517	RTX8ZW	19,24	22,25	19,24			19,22,24,25		
D7S820	436C8A							n/a	9,10
D8S1132	RTX8ZW	18,21	20,21	18,21			18,20,21		
D8S1179	436C8A							n/a	[11],12,15
DYS391	436C8A							n/a	10
FGA	436C8A							n/a	[18],21,[23],30.2
QS1	279376	Q	Q						
	FKM34H	Q	Q						
	TNZ237	Q	Q						
	V7W9A4	Q	Q						
	VC34T4	Q	Q						
	VRR29C	Q	Q						
	X7KHX2	Q	Q						
QS2	279376	S	S						
	FKM34H	S	S						
	TNZ237	S	S						
	V7W9A4	S	S						
	VC34T4	S	S						
	VRR29C	S	S						
	X7KHX2	S	S						
SE33	436C8A							n/a	[11],20,[30.2]
TH01	436C8A							n/a	6,7
TPOX	436C8A							n/a	[8],10,11
VWA	436C8A							n/a	15,15
YINDEL	436C8A							n/a	2



# DNA Interpretations

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

TABLE 4

WebCode	Victim (Item 1)		Suspect (Item 2)		WebCode	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
23CGE2	Yes	Yes	No	Yes	4UQQZQ	Yes	Yes	No	Yes
279376	Yes	Yes	No	Yes	6BAFHJ	No Interpretations Reported, DNA Analyzed for Database purposes only.			
2YPYZM	No Interpretations Reported, DNA Analyzed for Database purposes only.				6D3UZM	Yes	Yes	No	Yes
2Z7QEE	Yes	Yes	No	Yes	6F7ZQA	Yes	Yes	No	Yes
32XW3N	Yes	Yes	No	Yes	6HDQ4X	Yes	Yes	No	Yes
36VDDW	No Interpretations Reported, DNA Analyzed for Database purposes only.				6N7PHT	Yes	Yes	No	Yes
3BHK3C	Yes	Yes	No	Yes	6NWMEK	No Interpretations Reported, DNA Analyzed for Database purposes only.			
3CEYP6	Yes	Yes	No	Yes	6PFUVG	Yes	Inc	No	Yes
3MZLUK	Yes	Yes	No	Yes	6QTWUW	No Interpretations Reported, DNA Analyzed for Database purposes only.			
3P33VF	Yes	Yes	No	Yes	6RJ4TY	No Interpretations Reported, DNA Analyzed for Database purposes only.			
3TMBEU	Yes	Yes	No	Yes	6VKVUP	Yes	Yes	No	Yes
42R3WM	Yes	Yes	No	Yes	6WD2HQ	Yes	Yes	No	Yes
436C8A	Yes	Yes	No	Yes	77UV23	No Interp	Yes	No Interp	Yes
43NFJF	Yes	Yes	No	Yes	7DE6H8	Yes	Yes	No	Yes
48HC7L					7M4E3F	Yes	Yes	No	Yes
49RWZB	Yes	Yes	No	Yes	7Q2DHU	Yes	Yes	No	Yes
4A74LR	Yes	Yes	No	Yes	83DFZW	Yes	Yes	No	Yes
4A8VGE	Yes	Yes	No	Yes	84RJWA	Yes	Yes	No	Yes
4DKZN9	Yes	Yes	No	Yes	87Q6HK	Yes	Yes	No	Yes
4FCVWB	Yes	Yes	No	Yes	89FBZW	Yes	Yes	No	Yes
4PW9PE	Yes	Yes	No	Yes					

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
8EL6R8	Yes	Yes	No	Yes	B8CBJZ	Yes	Yes	No	Yes
8NUZ7Q	Yes	Yes	No	Yes	BBTCBK	Yes	Yes	No	Yes
8RV4XD	Yes	Yes	No	Yes	BGZ28D	Yes	Yes	No	Yes
8U2TX2	No Interp	Yes	No Interp	Yes	BKHZ43	Yes	Yes	No	Yes
8UFK3Y	Yes	Yes	No	Yes	BL92AQ	Yes	Yes	No	Yes
93MTW6	Yes	Yes	No	Yes	BLD4RN	Yes	Yes	No	Yes
96DN68	Yes	Yes	No	Yes	BREXTQ	Yes	Yes	No	Yes
98HBJW	Yes	Yes	No	Yes	BRZAW6	Yes	Yes	No	Yes
9E4DK8	Yes	Yes	No	Yes	CDYXYK	Yes	Yes	No	Yes
9LKRLR	Yes	Yes	No	Yes	CH7LCM	Yes	Yes	No	Yes
9PKZU9	Yes	Yes	No	Yes	CPPRBE	No Interp	No Interp	No Interp	No Interp
9RQG87	Yes	Yes	No	Yes	CTCUBD				
9VPKMC	Yes	Yes	No	Yes	D6EGJG	Yes	Yes	No	Yes
A27YUA	Yes	Yes	No	Yes	D6MLED	Yes	Yes	No	Yes
A3HTDG	No Interpretations Reported, DNA Analyzed for Database purposes only.				DATTJ4	Yes	Yes	No	Yes
A4F2HU	Yes	Yes	No	Yes	DAUCGJ	Yes	Yes	No	Yes
A68ZWR	Yes	Yes	No	Yes	DFYP44	Yes	Yes	No	Yes
ALK22V	Yes	Yes	No	Yes	DMXCWN	Yes	Yes	No	Yes
ANK83Y	No Interp	Yes	No Interp	Yes	DP9HPX	Yes	Yes	No	Yes
ATHWYU	No Interpretations Reported, DNA Analyzed for Database purposes only.				DUFJX2	Yes	Yes	No	Yes
AYMTHU	Yes	Yes	No	Yes	DVXXJB	Yes	Yes	No	Yes
AYQMDE	Yes	Yes	No	Yes	DXFECF	Yes	Yes	No	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
E6WARA	Yes	Yes	No	Yes	GWXU8H	No Interpretations Reported, DNA Analyzed for Database purposes only.			
EANGBJ	Yes	Yes	No	Yes	H23TFM	Yes	Yes	No	Yes
EEHEXN	Yes	Yes	No	Yes	H6434A	Yes	Yes	No	Yes
EGAPZX	Yes	Yes	No	Yes	H89WVM	Yes	Yes	No	Yes
EK87ED	No Interpretations Reported, DNA Analyzed for Database purposes only.				HAGYRJ	Yes	Yes	No	Yes
EN8Z68	No Interpretations Reported, DNA Analyzed for Database purposes only.				HF7RCC	Yes	Yes	No	Yes
EXCQDW	Yes	Yes	No	Yes	HL9XRF	Yes	Yes	No	Yes
EY4PRU	Yes	Yes	No	Yes	HXZ2ZU	Yes	Yes	No	Yes
EYMJDQ	Yes	Yes	No	Yes	HYW3XQ	No Interp	Yes	No Interp	Yes
F4GBB7	Yes	Yes	No	Yes	HYWENM	Yes	Yes	No	Yes
F4GMWW	Yes	Yes	No	Yes	HYXUTD	Yes	Yes	No	Yes
FAH482	Yes	Yes	No	Yes	JB7EVZ	Yes	Yes	No	Yes
FBFXZK	Yes	Yes	No	Yes	JKDDH	Yes	Yes	No	Yes
FKM34H	No Interpretations Reported, DNA Analyzed for Database purposes only.				JM2939	Yes	Yes	No	Yes
FKMD9E	Yes	Yes	No	Yes	JNBUGV	Yes	Yes	No	Yes
FWVRZY	Yes	Yes	No	Yes	JRB4PC	Yes	Yes	No	Yes
G8CZWQ	Yes	Yes	No	Yes	JVT7UW	Yes	Yes	No	Yes
G8EGFJ	No Interpretations Reported, DNA Analyzed for Database purposes only.				JXGZQH	Yes	Yes	No	Yes
G99EJJ	Yes	Yes	No	Yes	K7AV48	Yes	Yes	No	Yes
GLDXEA	Yes	Yes	No	Yes	K7RCAF	Yes	Yes	No	Yes
GMA4KQ	Yes	Yes	No	Yes	KFU2ZB	Yes	Yes	No	Yes
GTA8N3	Yes	Yes	No	Yes	KG829L	Yes	Yes	No	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
KJVK8X	Yes	Yes	No	Yes	MDJ2RA	Yes	Yes	No	Yes
KTPKTH	Yes	Yes	No	Yes	MJ69GN	Yes	Yes	No	Yes
KVMBNV	Yes	Yes	No	Yes	MPCK9Z	Yes	Yes	No	Yes
KZLFQF	No Interpretations Reported, DNA Analyzed for Database purposes only.				MX689R	Yes	Yes	No	Yes
L8X3RV	Yes	Yes	No	Yes	MX8UTQ	Yes	Yes	No	Yes
L9CH8H	Yes	Yes	No	Yes	NAFYCR	Yes	Yes	No	Yes
LBZ27U	Yes	Yes	No	Yes	NGEL27	Yes	Yes	No	Yes
LCURAN	Yes	Yes	No	Yes	NKUY3T	Yes	Yes	No	Yes
LJU3QE	No Interpretations Reported, DNA Analyzed for Database purposes only.				NLC4KR	Yes	Yes	No	Yes
LN2Q3V	No Interpretations Reported, DNA Analyzed for Database purposes only.				P434XM	Yes	Yes	No	Yes
LN4T3D	Yes	Yes	No	Yes	P7T64A	Yes	Yes	No	Yes
LNPLGW	Yes	Yes	No	Yes	PCKECM	Yes	Yes	No	Yes
LR8XM9	Yes	Yes	No	Yes	PJJEV6	Yes	Yes	No	Yes
LTZEUG	Yes	Yes	No	Yes	PW6CUY	Yes	Yes	No	Yes
LV7VX	Yes	Yes	No	Yes	Q8KJ7T	Yes	Yes	No	Yes
LWFJAK	Yes	Yes	No	Yes	QBX3V9	Yes	Yes	No	Yes
LWHB68	Yes	Yes	No	Yes	QKLUH2	Yes	Yes	No	Yes
LXA8RF	Yes	Yes	No	Yes	QLK2LE	Yes	Yes	No	Yes
M2CV2G	Yes	Yes	No	Yes	R6RGQC	Yes	Yes	No	Yes
M8AC4T	Yes	Yes	No	Yes	R8HFR9	Yes	Yes	No	Yes
M8UJDX	Yes	Yes	No	Yes	RLFU9	No Interpretations Reported, DNA Analyzed for Database purposes only.			
MCBQZC	No Interpretations Reported, DNA Analyzed for Database purposes only.				RLFYZ	Yes	Yes	No	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
RLZK7B	Yes	Yes	No	Yes	VPQGGR	Yes	Yes	No	Yes
RRNQXX	Yes	Yes	No	Yes	VRR29C	Yes	Yes	No	Yes
RTX8ZW	Yes	Yes	No	Yes	VW3AAG	Yes	Yes	No	Yes
RY37BL	Yes	Yes	No	Yes	VXGE9F	Yes	Yes	No	Yes
T4VN7D	Yes	Yes	No	Yes	VXYMWA	Yes	Yes	No	Yes
T6RELK	Yes	Yes	No	Yes	VYTW2P	Yes	Yes	No	Yes
T7H87P	Yes	Yes	No	Yes	WDBG9J	Yes	Yes	No	Yes
TG49UC	Yes	Yes	No	Yes	WW3MGA	Yes	Yes	No	Yes
TNZ237	No Interpretations Reported, DNA Analyzed for Database purposes only.				X7KH2	No Interpretations Reported, DNA Analyzed for Database purposes only.			
TYHU7L	Yes	Yes	No	Yes	XBV4UR	Yes	Yes	No	Yes
U9KCGN	Yes	Yes	No	Yes	XCQ42X	Yes	Yes	No	Yes
UDVHWV	No Interpretations Reported, DNA Analyzed for Database purposes only.				XG7ZY2	No Interpretations Reported, DNA Analyzed for Database purposes only.			
UEN2T8	Yes	Yes	No	Yes	XHXTGK	Yes	Yes	No	Yes
UJPD3A	No Interpretations Reported, DNA Analyzed for Database purposes only.				XLD3QH	Yes	Yes	No	Yes
URXFCU	Yes	Yes	No	Yes	XUCHLH	Yes	Yes	No	Yes
UUN9XJ	Yes	Yes	No	Yes	Y6NXRU	Yes	Yes	No	Yes
V4PTZC	Yes	Yes	No	Yes	YAWZJB	Yes	Yes	No	Yes
V7W9A4	No Interpretations Reported, DNA Analyzed for Database purposes only.				YCMYXA	Yes	Yes	No	Yes
VC34T4	No Interpretations Reported, DNA Analyzed for Database purposes only.				YEA4MC	Yes	Yes	No	Yes
VE9ZLY	Yes	Yes	No	Yes	YETJLA	Yes	Yes	No	Yes
VKA9TR	Yes	Yes	No	Yes	YMJ8GC	Yes	Yes	No	Yes
VMZRYE	Yes	Yes	No	Yes	YR3M44	Yes	Yes	No	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
Z2HBK3	Yes	Yes	No	Yes					
Z94PJM	Yes	Yes	No	Yes					
ZC4ZEM	No Interpretations Reported, DNA Analyzed for Database purposes only.								
ZEBDWN	Yes	Yes	No	Yes					
ZM6ZWF	Yes	Yes	No	Yes					
ZP8ZT7	Yes	Yes	No	Yes					
ZQKVQC	Yes	Yes	No	Yes					
ZU2TAF	Yes	Yes	No	Yes					
ZYVU8N	No Interpretations Reported, DNA Analyzed for Database purposes only.								

<b>DNA Interpretation</b>					
<b>Response Summary</b>	<b>Participants reporting DNA results: 226</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>192</b>	<b>195</b>	<b>0</b>	<b>196</b>
No		<b>0</b>	<b>0</b>	<b>192</b>	<b>0</b>
Inc		<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>
No Interpretation		<b>5</b>	<b>1</b>	<b>5</b>	<b>1</b>
No Response		<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>

Participants analyzing DNA for database purposes only: 27

# Additional Comments

## TABLE 5

WebCode	Additional Comments
23CGE2	'DNA Result' = peak height intensity less than mixture threshold. (DNA result) = Peak height intensity less than stochastic threshold. A primary contributor was indicated for the e.cell fraction of Item 4 at the following loci: D3S1358, vWA, D16S539, CSF1PO, TPOX, Amelogenin, D8S1179, D21S11, D18S51, D2S441, D19S433, TH01, FGA, D22S1045, D5S818, D13S317, D7S820, SE33, D10S1248, D1S1656, D12S391 and D2S1338.
32XW3N	The probabilistic genotyping software STRmix® was used on this proficiency. We reported out all possible alleles generated in the Genotype Probability Distribution output files.
36VDDW	Interpretation not reported. Test participant functions as a Y-Screen technician and does not perform interpretations.
3MZLUK	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks. Male screening batch review was performed on CTS 18-5702 Items 3 and 4.
3TMBEU	1-4.1 - non-sperm fraction: major female profile; minor profile is consistent with carryover from sperm fraction. 1-4.1 - sperm fraction: single source male profile.
42R3WM	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks.
436C8A	The results reported as Item 4 are from a Maxwell automated extraction where DNA derived from any cell type would be extracted. A manual differential extraction was also performed on Item 4, however as no epithelial cells were observed when a slide from the first stage of the extraction was viewed microscopically, no separation of fractions was required or performed. This is per laboratory procedure. These results were reported as additional DNA results.
43NFJF	Male screening sample preparation, laboratory processing, and interpretation were performed by this analyst. STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks.
48HC7L	Genotype data was not entered for this proficiency because this analyst is only qualified/authorized to process samples through differential extraction at this time. Additionally, this analyst is qualified to prepare non-differential samples for extraction using an automated workflow. The reference samples were prepared in this manner for this proficiency.
6D3UZM	Male screening sample preparation and laboratory processing were performed by another analyst. Interpretation was performed by this analyst. STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks.
6HDQ4X	Multiple extractions and quants of item 4 sperm fraction showed an auto to Y ratio between 0.3 and 0.4. This wasn't an issue for our laboratory, but I could see how it could be a problem for other labs - if it's showing over twice as much Y DNA as autosomal DNA. Just FYI.
6N7PHT	NR = No Result. [] = Weaker alleles.
6PFUVG	There is a problem with the quality of the sample Item 4. This blood and semen mix fell short to provide enough DNA in the epithelial cell fraction to obtain a full profile. I re-amplified the original extract, I re-extracted the sample, I concentrated the epithelial cell fraction using the Amicon concentrating device, and was still unable to obtain a full profile. A partial profile was obtained and the resulting de-convolution of the sample using STRmix reflects an inconclusive result for the female victim in the epithelial cell fraction of this sample. I attempted all techniques we have in our SOP to obtain a full profile and was unsuccessful. Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for plus and minus stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in

TABLE 5

WebCode	Additional Comments
	the DNA Results tables.
6RJ4TY	NR = "No Results"
6VKVUP	NR = No results. [] = minor alleles.
77UV23	NR=no results. Item 3 was negative for male screen, so item 3 was not further tested with STR.
7M4E3F	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is admitted that some stutter peaks can be recognized as true peaks.
7Q2DHU	NR = No Results
89FBZW	(DNA Result) = Peak height intensity less than stochastic threshold. 'DNA Result' = Inconclusive. Item 4e: A primary component was determined at D3S1358, vWA, D16S539, CSF1PO, TPOX, D8S1179, D21S11, D18S51, D2S441, D19S433, TH01, FGA, D22S1045, D5S818, D13S317, D7S820, SE33, D10S1248, D1S1656, D12S391 and D2S1338. A secondary component was determined at D3S1358, vWA, D16S539, CSF1PO, TPOX, D8S1179, D21S11, D18S51, D2S441, D19S433, TH01, FGA, D22S1045, D5S818, D13S317, D7S820, SE33, D10S1248, D12S391 and D2S1338.
8EL6R8	NR = No Results
8NUZ7Q	NR=No Result. []=weaker allele.
8RV4XD	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks. Male screening sample preparation and laboratory processing were performed by another analyst. Interpretation was performed by this analyst. No DNA or Y-STR laboratory work was performed by this analyst, only data interpretation was performed.
8U2TX2	Item 3 was not DNA tested as it tested negative for male DNA. N/A = Not Applicable.
93MTW6	N.D. : Not Detected
98HBJW	Minor profile in epithelial fraction of item 4 is from incomplete differential separation of sperm fraction.
9VPKMC	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for plus and minus stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables. Unable to obtain full victim profile from the E-cell fraction of item 4 (stain from pants from victim). Re-amplified extract (15ul, maximum amount), still did not obtain full victim profile. Then re-extracted using a larger portion of the stain, concentrated E-cell fraction with amicon to ~20ul, re-amplified the maximum amount, did not obtain a DNA profile.
A27YUA	NR = No Result. () = Weaker Alleles.
A68ZWR	1. Item 1 and Item 2 were extracted using in-situ method. 2. Item 3 was extracted using DNA IQ kit and run using TECAN Freedom Evo 150. 3. Item 4 was extracted using Chelex extraction method. 4. Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification kit. 5. Item 1 and Item 2 were amplified using AmFISTR Identifier Direct kit while Item 3 and 4 were amplified using AmFISTR Identifier Plus kit. Electrophoresis was carried out using Genetic Analyzer 3500xL. 6. Y-STR amplification was carried out on Item 2 and Item 4 using AmFISTR Y-Filer kit. Electrophoresis was carried out using Genetic Analyzer 3130xL. 7. Reagent blank, positive control and negative control were incorporated throughout the analysis.
ANK83Y	NR= No Results. Item 3 not STR typed; Item was male screen negative.
AYMTHU	Y-STR not performed on Item 1 because no male DNA detected on quantification. Weak alleles are enclosed with brackets []. Yfiler results for Item 3 are NR-No Results. Quantifiler Trio results gave a very low T.Y of .175 picograms per microliter which is why Y-STR analysis was performed.
AYQMDE	Two separate differential extractions were performed on Item 4 (manual differential and QIAcube-facilitated differential). The results reported for this item represent a composite profile covering



TABLE 5

WebCode	Additional Comments
	all alleles obtained across both extraction methods.
BGZ28D	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks. Item 4 (pants from victim) was extracted twice due to a low epithelial profile. The Y-STR epithelial results were from the second extraction and the maximum volume was amplified.
BLD4RN	DYS391 is in both the GlobalFiler and PowerPlex Y23 amplification kits. Two separate differential extractions were performed on Item 4 (manual differential and QIAcube-facilitated differential). The results reported for this item represent a composite profile covering all alleles obtained across both extraction methods. The additional peak foreign to the victim and suspect at D22S1045 in Item 4 may be attributed to elevated stutter, with both forward and reverse stutter compounding. The reverse observed stutter percentage is 15.35% and the validated [Laboratory] stutter percentage is 13.91%. The forward observed stutter percentage is 11.89% and the validated [Laboratory] stutter percentage is 6.26%.
BREXTQ	Serology tests of Item 3 are listed as below: the KM test is positive; the ACP test is negative; microscopic analysis of spermatozoa is negative. Serology tests of Item 4 are listed as below: the KM test is positive; the ACP test is positive; microscopic analysis of spermatozoa is positive.
CTCUBD	"Genotype data was not entered for this proficiency because this analyst is only qualified/authorized to process samples through differential extraction at this time. Additionally, this analyst is qualified to prepare non-differential samples for extraction using an automated workflow. The reference samples were prepared in this manner for this proficiency."
D6MLED	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks. A full profile was not developed for the epithelial cell fraction of the victim's pants (Item 4). Every attempt was made to obtain interpretable data at every locus, as the sample was amplified with the highest possible sample volume, injected for the maximum validated injection time, and finally re-extracted.
DATTJ4	NR: No Results
DAUCGJ	KEY: NR = No Result. [] = denotes minor alleles.
DFYP44	NR = No Results
DMXCWN	1. Item 1 and Item 2 were extracted using in-situ method. 2. Item 3 was extracted using DNA IQ Kit and run on TECAN Freedom Evo 150. 3. Item 4 was extracted using Chelex extraction method. 4. Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification kit. 5. Item 1 and Item 2 were amplified using AmFISTR Identifiler Direct kit while Item 3 and 4 were amplified using AmFISTR Identifiler Plus kit. Electrophoresis was carried out using Genetic Analyzer 3500xL. 6. Y-STR amplification was carried out on Item 2 and Item 4 using AmFISTR Y-Filer kit. Electrophoresis was carried out using Genetic Analyzer 3130xL. 7. Reagent blank, positive control and negative control were incorporated throughout the analysis.
DVXXJB	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks.
DXFECE	In Item 4, the loci that had SOME alleles detected but were interpreted as 'not suitable for comparison' (due to peaks being present below the analytical threshold) were entered as "inc" in the answer sheet (rather than leaving them blank). We do not have probabilistic genotyping.
E6WARA	**STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks.**
EANGBJ	NR = No Result. [] = minor allele and/or allele below stochastic threshold.
EEHEXN	ND = no data. NT = not tested.
EN8Z68	Interpretation not reported. Test participant functions as a Y-Screen technician and does not perform interpretations.

TABLE 5

WebCode	Additional Comments
EXCQDW	()=minor component alleles
EYMJDQ	Item A1-4 sperm portion: Elevated stutter detected at D12S391, allele 20, not included in allele table.
F4GBB7	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks.
F4GMWW	()= weaker alleles
FAH482	NR = no results
FBFXZK	No male DNA detected in item 3. Therefore it was not subjected to Y-filer testing.
G99EJJ	Y-STR profiling not carried out on item 4, e fraction, because this portion of DNA apparently originated from a female.
GLDXEA	The probabilistic genotyping software STRmix was used on this proficiency. We reported out all possible alleles generated in the Genotype Probability Distribution output files.
GTA8N3	automatic upload. NR = no results. () = minor alleles.
HAGYRJ	The probabilistic software STRmix® was used on this proficiency. We reported out all possible alleles generated in the Genotype Probability Distribution output files.
HF7RCC	For items 4x1 and 4x2 at TPOX -- Possible additional genetic information may be present. Detected data is below stochastic threshold.
HL9XRF	[ ] = Minor alleles. NR = No result.
HYW3XQ	Item 3: not taken forward to STR testing.
HYXUTD	NR = No Result
JB7EVZ	The victim (Item 1) is not excluded as a contributor to the blood stain from the victim's car seat cover (Item 3). The victim (Item 1) and the suspect (Item 2) are not excluded as contributors to the epithelial fraction in the victim's pants (Item 4). The suspect (Item 2) is not excluded as a contributor to the sperm fraction in the victim's pants (Item 4).
JJKDDH	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks. Male screening was performed on items 3 and 4. Male screening interpretation, review, and report writing was covered in this proficiency test.
JM2939	The probabilistic genotyping software STRmix® was used on this proficiency. All possible alleles generated in the Genotype Probability Distribution output files were reported.
JNBUGV	NR = No results
JVT7UW	NR indicates no results
K7AV48	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks.
K7RCAF	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks. Male screening was performed on item 3 and item 4. Male screening interpretation, review, and report writing was covered in this proficiency test.
KFU2ZB	NR=No results; []=minor alleles and alleles below stochastic threshold.
KTPKTH	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks.
KVMBNV	NR=No Results
L8X3RV	NR = No Results

TABLE 5

WebCode	Additional Comments
LCURAN	() = minor allele
LN4T3D	Two separate differential extractions were performed on Item 4 (manual differential and QIAcube facilitated differential). The results reported for this item represent a composite profile covering all alleles obtained over both extractions methods.
LNPLGW	Male screening sample preparation, laboratory processing, and interpretation were performed by this analyst. STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks.
LV7VX	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks.
LXA8RF	1) In-situ extraction method was used to extract DNA from Item 1 and Item 2. 2) Chelex extraction method was used to extract DNA from Item 3 and Item 4. 3) DNA quantitation was carried out using the Quantifiler Human DNA Quantification Kit with Applied Biosystems Real Time Polymerase Chain Reaction (PCR) 7500 System. 4) Amplification of STR (Short Tandem Repeat) Genetic Loci was carried out using the AmpFISTR Identifiler Plus and Direct PCR Amplification Kit. 5) Amplification of Y-STR (Short Tandem Repeat) Genetic Loci was carried out using the AmpFISTR Y-File PCR Amplification Kit. 6) Capillary electrophoresis was carried out using the Applied Biosystems 3130xl Genetic Analyzers with GeneMapper ID Software. 7) Reagent blank, positive control and negative control were carried out throughout the analysis.
M8UJDX	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks.
MCBQZC	Interpretations not reported. Test participant functions as a Y-screen technician and does not perform interpretations.
MDJ2RA	NR = No Results. [ ] = minor alleles.
MJ69GN	NR=No Results
MPCK9Z	Two separate differential extractions were performed on Item #4 (manual differential and QIAcube-facilitated differential). The results reported for this item represent a composite profile covering all alleles obtained across both extraction methods.
MX8UTQ	N.D.: Not Detected
NKUY3T	NR=No results
PW6CUY	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks.
Q8KJ7T	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks.
R6RGQC	Y-STR analysis was not performed on Items 1 and 3 because no male DNA was detected using Quantifiler Trio. Weak alleles are enclosed with [].
R8HFR9	Item 3 was not processed with Yfiler because no male DNA was detected at the quantification step. The epithelial fraction of Item 4 was not processed with Yfiler because the sperm fraction was to demonstrate proficiency.
RLZK7B	1. Item 1 and Item 2 were extracted in situ and proceed with amplification using AmpFISTR Identifiler Direct Kit. 2. Item 3 and Item 4 were extracted using chelex extraction method and quantified using the Quantifiler Human DNA Quantification kit. 3. Item 3 and Item 4 were amplified using AmpFISTR Identifiler Plus Kit. 4. Item 1 to Item 4 were run electrophoresis using Genetic Analyzer 3500xl. 5. Y-STR analysis was carried out for Item 2 and Item 4 using the AmpFISTR Y-File kit. Electrophoresis was carried out using

TABLE 5

WebCode	Additional Comments
	Genetic Analyzer 3130xl. 6. Reagent Blank, positive control and negative control were carried out together along the processes and gave designated result.
RRNQXX	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks. Item 4 (pants) was extracted twice to attempt obtaining a full profile from the epithelial fraction. The epithelial fraction was amplified at the maximum amount on both extracts and injected at 15 seconds (maximum injection time). A full profile for the epithelial fraction was not obtained from either extraction.
RTX8ZW	1. Conclusion: Source of stain: Item 1 = Item 3 = included in Item 4. The same woman with an Autosomal Profile Frequency of 2,354E-47 and Match Probability of 1/4,247E46. (based on own databases as well as <a href="https://strbase.nist.gov/">https://strbase.nist.gov/</a> & <a href="http://allstr.de">http://allstr.de</a> ). 2 Conclusion: Source of stain: Item 2 = included in Item 4. The man with an Autosomal Profile Frequency of 8,646E-60, and Match Probability of 1/1,157E59 as well as Y-haplotype frequency of 1/43344 haplotypes. (based on own databases as well as <a href="https://strbase.nist.gov/">https://strbase.nist.gov/</a> & <a href="http://allstr.de">http://allstr.de</a> & <a href="https://yhrd.org">https://yhrd.org</a> )
TYHU7L	NR=no results
U9KCGN	It is noted that the genetic profile recovered from the blood in the victim's car seat cover (Item 3) is fully consistent with the victim's profile (Item 1) for all the autosomic STRs analyzed. Therefore the victim (Item 1) is not excluded as the source of the blood sample detected in the victim's car seat. The victim (Item 1) and the suspect (Item 2) are not excluded as the source of the cells mixture in the epithelial fraction of the blood and semen mixture stain in the victim's pants (Item 4). The suspect (Item 2) is not excluded as the source of the cells in the spermatic fraction of the blood and semen mixture in the victim's pants (Item 4).
URXFCU	Two separate differential extractions were performed on Item 4 (manual differential and QIAcube-facilitated differential). The results reported for this item represent a composite profile covering all alleles obtained across both extraction methods.
VE9ZLY	NR = No Result. [#] = Minor Allele.
VKA9TR	Two separate differential extractions were performed on Item 4 (manual differential and QIAcube-facilitated differential). The results reported for this item represent a composite profile covering all alleles obtained across both extraction methods. Also, in the epithelial cell fraction of Item 4, elevated stutter resulting in a called "16" occurred at locus D22S1045 in both differential extractions. Our laboratory's validated minus one repeat stutter percentage for that locus is 13.9%. The RFU values of "16" peak was 14.1% and 14.3% the "17" peaks in the manual and QIAcube-facilitated differentials, respectively. The "16" peaks also fall into the plus one stutter positions of the "15". The elevated peak height may be due to the combination of the two types of stutter.
VMZRYE	() = weaker alleles
VPQGGR	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks.
VXGE9F	NR= No results. ()= weaker alleles.
VYTW2P	STRmix genotyping probabilistic software was used to determine possible genotype combinations. No stutter filters are used when using this software and it is recognized that some stutter peaks can be recognized as true peaks.
XBV4UR	The probabilistic genotyping software STRmix was used on this proficiency. We reported out all possible alleles generated in the Genotype Probability Distribution output files.
XG7ZY2	Interpretation not reported. Test participant functions as a Y-Screen technician and does not perform interpretations.
XLD3QH	NR is defined as "No Results"
YAWZJB	NR = no results
YMJ8GC	() = weaker/minor alleles. NR = No results.

TABLE 5

WebCode	Additional Comments
YR3M44	On Item 4A.A-Ep TPOX was reported as being inconclusive (INC) due to only an 8 allele being detected below our stochastic threshold for a homogeneous allele.
Z2HBK3	1. Item 1 and Item 2 were extracted using in-situ method. 2. Item 3 was extracted using DNA IQ kit and run using TECAN Freedom Evo 150. 3. Item 4 was extracted using Chelex extraction method. 4. Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification kit. 5. Item 1 and Item 2 were amplified using AmFISTR Identifiler Direct kit while Item 3 and 4 were amplified using AmFISTR Identifiler Plus kit. Electrophoresis was carried out using Genetic Analyzer 3500xL. 6. Y-STR amplification was carried out on Item 2 and Item 4 using AmFISTR Y-Filer kit. Electrophoresis was carried out using Genetic Analyzer 3130xL. 7. Reagent blank, positive control and negative control were incorporated throughout the analysis.
Z94PJM	Two separate differential extractions were performed on Item 4 (manual differential and QIAcube-facilitated differential). The results reported for this item represent a composite profile covering all alleles obtained across both extraction methods.
ZC4ZEM	Interpretation not reported. Test participant functions as a Y-Screen technician and does not perform interpretations.
ZEBDWN	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks. The maximum amount of 4 pants epi was amplified with the 24plex kit and the maximum injection time was used. Even though the maximum amount of 4 pants epi was amplified with Yfiler the profile was uninterpretable.
ZM6ZWF	We do not report major or minor contributors for Y-STRs (item #1-4)
ZU2TAF	NR = No Results. [] = minor alleles.

**-End of Report-**  
**(Appendix may follow)**

# Appendix: Data Sheet

Collaborative Testing Services ~ Forensic Testing Program

## **Test No. 18-5802: DNA-Semen**

DATA MUST BE RECEIVED BY May 7, 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 of a female victim. The victim claims that while walking back to her car at night from the supermarket, a male suspect forced his way into her car and proceeded to sexually assault her. Officers reviewed the supermarket security tape and identified a car that matched the victim's description of the suspect's car. The suspect was soon identified and apprehended. Investigators are submitting stains from the victim's car seat cover (Item 3) and from the victim's pants (Item 4). Screening has been performed on both samples with the following results: Item 3 (victim's car seat cover) 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 S2):

- Item 1: Known blood from the female victim
- Item 2: Known blood from the male suspect
- Item 3: Questioned blood stain from the victim's car seat cover (heather grey)
- Item 4: Questioned blood and semen mixture from the victim's pants (light blue)

**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>	<i>e</i>	10,11	15,16	8	12,13	7	8
	<i>sp</i>	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 all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, 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="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ITEM</b>	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ITEM</b>	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ITEM</b>	FGA	Penta D	Penta E	SE33	TH01	TPOX
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ITEM</b>	vWA	DYS391	DYS570	DYS576	Y Indel	
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**YSTR Amplification Kit(s) Used:** Please check all the brands that apply 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="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ITEM</b>	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ITEM</b>	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please return all pages of this data sheet.



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

**STR Amplification Kit(s) Used:** Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, 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 all the brands that apply 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 all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, 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 all the brands that apply 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"/>

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

**STR Amplification Kit(s) Used:** Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. 16, Plus, Direct, HS, Fusion, 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 all the brands that apply 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"/>

Please return all pages of this data sheet.

Part II: DNA INTERPRETATION

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

<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
Item 3	Item 4	Item 3	Item 4
Yes <input type="checkbox"/>	<input type="checkbox"/>	Yes <input type="checkbox"/>	<input type="checkbox"/>
No <input type="checkbox"/>	<input type="checkbox"/>	No <input type="checkbox"/>	<input type="checkbox"/>
Inconclusive <input type="checkbox"/>	<input type="checkbox"/>	Inconclusive <input type="checkbox"/>	<input type="checkbox"/>
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>May 07, 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. **18-5802: DNA-Semen**

This release page must be completed and received by **May 7, 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.**