



## **DNA-Blood Test No. 18-5803**

### **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 105 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 white fabric (Item 3) and one on clean, tan (Item 4). Participants were requested to analyze these items using their existing protocols.

**SAMPLE PREPARATION:** All stains were prepared using human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. Items 1 (75  $\mu$ l) and 4 (50  $\mu$ l) were each created using blood from the same male donor. Items 2 (75  $\mu$ l) and 3 (50  $\mu$ l) were each created using blood from the same male donor, different from the one used for Items 1 and 4. 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 April 16, 2018 following completion of the 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

### Amelogenin and STR Results

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

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	
1	10,16.3	16,23	10,10	16,16	11,13	*
	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19	2	
2	14,16	20,21	10,10	15,19	10,11	*
	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18	2	
3	14,16	20,21	10,10	15,19	10,11	*
	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18	2	
4	10,16.3	16,23	10,10	16,16	11,13	*
	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19	2	

### YSTR Results

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

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
1	*	14	11,15	13	29	24	10	13	13
	15	12	12	19	*	15	19	*	21
	*	12	13	17	19	*	23	10	12
2	*	14	13,14	13	29	22	10	11	13
	15	10	11	20	*	14	15	*	25
	*	11	12	19	18	*	21	13	11
3	*	14	13,14	13	29	22	10	11	13
	15	10	11	20	*	14	15	*	25
	*	11	12	19	18	*	21	13	11
4	*	14	11,15	13	29	24	10	13	13
	15	12	12	19	*	15	19	*	21
	*	12	13	17	19	*	23	10	12

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

## **Summary Comments**

The DNA-Blood 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. Participants were supplied with two "known" bloodstains (Items 1 and 2) and two "questioned" stains (Items 3 and 4). Items 1 and 4 were each created using blood from the same male donor. Items 2 and 3 were each created using blood from the same male donor, different from the one used for Items 1 and 4. (See Manufacturer's Information for preparation details)

Of the 105 participants that returned results, 87 reported DNA interpretations. Seventeen participants stated that the samples were only analyzed for database purposes.

For the Item 3 stain, all 87 participants that reported interpretations both excluded the victim (Item 1) and included the suspect (Item 2) as a possible contributor.

For the Item 4 stain, all 87 participants that reported interpretations both included the victim (Item 1) as a possible contributor and excluded the suspect (Item 2).

Three participants reported allelic results that differed from consensus/predistribution results. Of these, two participants reported an inconsistent allele call at one locus for Item 4. One of these participants reported the same allelic results for D2S441 as they did for locus D2S1338. The other participant reported a "14" at locus DYS393 for Item 4 where the consensus allele was "13". Finally, one participant was missing an allele call (10) at locus D1S1656 for Item 4.

# 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

29WHP3	GlobalFiler™ Express					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
2FXW9H	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
2NR6L8	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
2VA9VU	GlobalFiler™					
	10,16.3	16,23	10	16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19			22.2,28.2	6,9	11
	17	10			2	
2W7Q3D	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
38ZKJR	GlobalFiler™					
	10,16.3	16,23	10	16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19			22.2,28.2	6,9	11
	17	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 1 - STR Results

3HZUJB	Identifiler®					
		16,23		16,16	11,13	
1		10,11	8,14		11,13	10,11
		15,17	12,15.2	31,31	X,Y	11,11
		19,19			6,9	11,11
		17,17				
3R64QZ	Identifiler®					
		16,23		16,16	11,13	
1		10,11	8,14		11,13	10,11
		15,17	12,15.2	31,31	X,Y	11,11
		19,19			6,9	11,11
		17,17				
3TXU2U	GlobalFiler™					
		10,16.3	16,23	10	16	11,13
1		10,11	8,14	13,15	15,19	11,13
		15,17	12,15.2	31	16,17	X,Y
		19			22.2,28.2	6,9
		17	10			2
3UAVL8	GlobalFiler™					
		10,16.3	16,23	10,10	16,16	11,13
1		10,11	8,14	13,15	15,19	11,13
		15,17	12,15.2	31,31	16,17	X,Y
		19,19			22.2,28.2	6,9
		17,17	10			2
48F7TU	GlobalFiler™					
		10,16.3	16,23	10	16	11,13
1		10,11	8,14	13,15	15,19	11,13
		15,17	12,15.2	31	16,17	X,Y
		19			22.2,28.2	6,9
		17	10			2
4ALGVP	PowerPlex® Fusion 6C					
		10,16.3	16,23	10	16	11,13
1		10,11	8,14	13,15	15,19	11,13
		15,17	12,15.2	31	16,17	X,Y
		19	5,9	19,21	22.2,28.2	6,9
		17	10	17	19	
4HXLQG	PowerPlex® Fusion 6C					
		10,16.3	16,23	10,10	16,16	11,13
1		10,11	8,14	13,15	15,19	11,13
		15,17	12,15.2	31,31	16,17	X,Y
		19,19	5,9	19,21	22.2,28.2	6,9
		17,17	10	17	19	

TABLE 1

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

4MTDYE	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
4TEKCP	PowerPlex® 21					
	10,16.3	16,23		16,16	11,13	12,17
1	10,11	8,14		15,19	11,13	10,11
	15,17	12,15.2	31,31		X,Y	11,11
	19,19	5,9	19,21		6,9	11,11
	17,17					
6NGCPH	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
73WVQA	GlobalFiler™ Express					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
79M63T	PowerPlex® Fusion 5C					
	10,16.3	16,23	10	16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19	5,9	19,21		6,9	11
	17	10				
7BBRJM	Identifiler® Plus					
		16,23		16,16	11,13	
1	10,11	8,14			11,13	10,11
	15,17	12,15.2	31,31		X,Y	11,11
	19,19				6,9	11,11
	17,17					
7KDYC2	Identifiler® Direct					
	-	16,23	-	16	11,13	-
1	10,11	8,14	-	-	11,13	10,11
	15,17	12,15.2	31	-	X,Y	11
	19	-	-	-	6,9	11
	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 1 - STR Results

7MKDQA	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
7RAQRX	PowerPlex® 16HS					
				16,16	11,13	
1	10,11	8,14			11,13	10,11
	15,17		31,31		X,Y	11,11
	19,19	5,9	19,21		6,9	11,11
	17,17					
8AA4TW	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
8FFN3M	GlobalFiler™ (STRmix)					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
8NA67X	Identifiler® Direct					
		16,23		16	11,13	
1	10,11	8,14			11,13	10,11
	15,17	12,15.2	31		X,Y	11
	19				6,9	11
	17					
8UEJC9	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
92DQ83	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	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 1 - STR Results

974XRV	GlobalFiler™ Express					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
978L4V	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
98343B	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
98E33Y	Identifiler® Direct					
	-	16,23	-	16	11,13	-
1	10,11	8,14	-	-	11,13	10,11
	15,17	12,15.2	31	-	X,Y	11
	19	-	-	-	6,9	11
	17	-	-	-	-	
ACQ6QF	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
B9MRD2	Identifiler®					
	-	16,23	-	16,16	11,13	-
1	10,11	8,14	-	-	11,13	10,11
	15,17	12,15.2	31,31	-	X,Y	11,11
	19,19	-	-	-	6,9	11,11
	17,17	-	-	-	-	
BEBG26	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	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 1 - STR Results

BYYX8K	GlobalFiler™						
		10,16.3	16,23	10	16	11,13	
	1	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31	16,17	X,Y	11
		19			22.2,28.2	6,9	11
		17	10			2	
C863VU	PowerPlex® Fusion 5C						
		10,16.3	16,23	10,10	16,16	11,13	
	1	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31,31	16,17	X,Y	11,11
		19,19	5,9	19,21		6,9	11,11
		17,17	10				
CAATUA	PowerPlex® Fusion 6C						
		10,16.3	16,23	10,10	16,16	11,13	
	1	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31,31	16,17	X,Y	11,11
		19,19	5,9	19,21	22.2,28.2	6,9	11,11
		17,17	10	17	19		
CABPAK	GlobalFiler™						
		10,16.3	16,23	10,10	16,16	11,13	
	1	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31,31	16,17	X,Y	11,11
		19,19			22.2,28.2	6,9	11,11
		17,17	10			2	
CF2ZKH	GlobalFiler™ (STRMix)						
		10,16.3	16,23	10	16	11,13	
	1	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31	16,17	X,Y	11
		19			22.2,28.2	6,9	11
		17	10			2	
CGWKBN	PowerPlex® fusion						
		10,16.3	16,23	10	16	11,13	
	1	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31	16,17	X,Y	11
		19	5,9	19,21		6,9	11
		17	10				
CKYCQF	PowerPlex® Fusion 6C						
		10,16.3	16,23	10	16	11,13	
	1	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31	16,17	X,Y	11
		19	5,9	19,21	22.2,28.2	6,9	11
		17	10	17	19		

TABLE 1

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

CWLNP	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
DDQEAM	PowerPlex® Fusion 5C					
	10,16.3	16,23	10	16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19	5,9	19,21		6,9	11
	17	10				
DHKCXE	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
EE3GT2	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
EFPA8G	GlobalFiler™					
	10,16.3	16,23	10	16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19			22.2,28.2	6,9	11
	17	10			2	
F984BA	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
FEWH6X	Identifiler® Plus					
		16,23		16,16	11,13	
1	10,11	8,14			11,13	10,11
	15,17	12,15.2	31,31		X,Y	11,11
	19,19				6,9	11,11
	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 1 - STR Results

FHXNLN	PowerPlex® Fusion 6C					
	10,16.3	16,23	10	16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19	5,9	19,21	22.2,28.2	6,9	11
	17	10	17	19		
FYGG98	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
HDCLH2	Identifiler® Plus					
		16,23		16,16	11,13	
1	10,11	8,14			11,13	10,11
	15,17	12,15.2	31,31		X,Y	11,11
	19,19				6,9	11,11
	17,17					
HGEH4P	Identifiler® Direct					
	-	16,23	-	16	11,13	-
1	10,11	8,14	-	-	11,13	10,11
	15,17	12,15.2	31	-	X,Y	11
	19	-	-	-	6,9	11
	17	-	-	-	-	
HGEKVE	GlobalFiler™					
	10,16.3	16,23	10	16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19			22.2,28.2	6,9	11
	17	10			2	
HM4ZL8	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
J2HN4V	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		

TABLE 1

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

J2UGNA	GlobalFiler™					
	10,16.3	16,23	10	16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19			22.2,28.2	6,9	11
	17	10			2	
J3P3FF	PowerPlex® Fusion					
	10,16.3	16,23	10	16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19	5,9	19,21		6,9	11
	17	10				
J4N9RV	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
J7PART	VeriFiler					
	10,16.3	16,23	10,10	16,16	11,13	12,17
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21		6,9	11,11
	17,17				2	
JAPJT8	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
JEJJ6G	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
K36MUY	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		

TABLE 1

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

K77NMU	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22,2,28,2	6,9	11,11
	17,17	10			2	
K8EZEH	GlobalFiler™ Express					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22,2,28,2	6,9	11,11
	17,17	10			2	
KD3M83	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22,2,28,2	6,9	11,11
	17,17	10	17	19		
KUCAXK	PowerPlex® Fusion 6c					
	10,16.3	16,23	10	16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19	5,9	19,21	22,2,28,2	6,9	11
	17	10	17	19		
LMMCJG	GlobalFiler™ Express					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22,2,28,2	6,9	11,11
	17,17	10			2	
LNHX4K	Identifiler® DIRECT					
	-	16,23	-	16	11,13	-
1	10,11	8,14	-	-	11,13	10,11
	15,17	12,15.2	31	-	X,Y	11
	19	-	-	-	6,9	11
	17	-	-	-	-	
LRLQY6	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22,2,28,2	6,9	11,11
	17,17	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 1 - STR Results

MBTDZ3	PowerPlex® Fusion 6C						
		10,16.3	16,23	10,10	16,16	11,13	
	1	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31,31	16,17	X,Y	11,11
		19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19			
MQ3638	GlobalFiler™ (STRmix)						
		10,16.3	16,23	10	16	11,13	
	1	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31	16,17	X,Y	11
		19			22.2,28.2	6,9	11
	17	10			2		
MTVW7T	PowerPlex® Fusion 6C						
		10,16.3	16,23	10,10	16,16	11,13	
	1	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31,31	16,17	X,Y	11,11
		19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19			
MZULMW	PowerPlex® Fusion 6C						
		10,16.3	16,23	10,10	16,16	11,13	
	1	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31,31	16,17	X,Y	11,11
		19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19			
NL3D8F	NGM SElect						
		10,16.3	16,23	10,10	16,16		
	1		8,14	13,15	15,19		10,11
		15,17	12,15.2	31,31	16,17	X,Y	
		19,19			22.2,28.2	6,9	
	17,17						
NVR3ZP	PowerPlex® Fusion 6C						
		10,16.3	16,23	10,10	16,16	11,13	
	1	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31,31	16,17	X,Y	11,11
		19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19			
PAR4CQ	PowerPlex® Fusion 6C						
		10,16.3	16,23	10,10	16,16	11,13	
	1	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31,31	16,17	X,Y	11,11
		19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19			

TABLE 1

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

PENN98	GlobalFiler™						
		10,16.3	16,23	10	16	11,13	
	1	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31	16,17	X,Y	11
		19			22.2,28.2	6,9	11
	17	10			2		
PKRVLP	GlobalFiler™ Express						
		10,16.3	16,23	10,10	16,16	11,13	
	1	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31,31	16,17	X,Y	11,11
		19,19			22.2,28.2	6,9	11,11
	17,17	10			2		
PRA2M3	GlobalFiler™						
		10,16.3	16,23	10,10	16,16	11,13	
	1	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31,31	16,17	X,Y	11,11
		19,19			22.2,28.2	6,9	11,11
	17,17	10			2		
QP7GJ3	Identifiler® Plus						
			16,23		16,16	11,13	
	1	10,11	8,14			11,13	10,11
		15,17	12,15.2	31,31		X,Y	11,11
		19,19				6,9	11,11
	17,17						
QV3LWR	PowerPlex® Fusion 6C						
		10,16.3	16,23	10,10	16,16	11,13	
	1	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31,31	16,17	X,Y	11,11
		19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19			
R2PRZ6	GlobalFiler™						
		10,16.3	16,23	10	16	11,13	
	1	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31	16,17	X,Y	11
		19			22.2,28.2	6,9	11
	17	10			2		
R7HWTA	PowerPlex® Fusion 6C						
		10,16.3	16,23	10,10	16,16	11,13	
	1	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31,31	16,17	X,Y	11,11
		19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19			



TABLE 1

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

R8G36N	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
RF9E8H	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
RTXC2	PowerPlex® Fusion 6C					
	10,16.3	16,23	10	16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19	5,9	19,21	22.2,28.2	6,9	11
	17	10	17	19		
RZWR7Z	PowerPlex® Fusion 6C					
	10,16.3	16,23	10	16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19	5,9	19,21	22.2,28.2	6,9	11
	17	10	17	19		
T4RRXG	PowerPlex® ESI Fast					
	10,16.3	16,23	10,10	16,16		
1		8,14	13,15	15,19		10,11
	15,17	12,15.2	31,31	16,17	X,Y	
	19,19				6,9	
	17,17					
TDXYDG	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
U3U4UC	Identifiler® Direct					
		16,23		16	11,13	
1	10,11	8,14			11,13	10,11
	15,17	12,15.2	31		X,Y	11
	19				6,9	11
	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 1 - STR Results

UQ2GVH	Identifiler® Plus					
		16,23		16,16	11,13	
1	10,11	8,14			11,13	10,11
	15,17	12,15.2	31,31		X,Y	11,11
	19,19				6,9	11,11
	17,17					
UVBYRQ	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
VFFWNR	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
W38A78	PowerPlex® ESX17, GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
WQB4EU	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
X32F3R	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
XEXNLU	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	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 1 - STR Results

XR6A9T	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
Y3G2CT	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
Y3XFAH	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
YAERNH	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	ne
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19	ne	
YAFLC4	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
YF8WGM	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
ZERTET	PowerPlex® Fusion 6C					
	10,16.3	16,23	10	16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19	5,9	19,21	22.2,28.2	6,9	11
	17	10	17	19		

TABLE 1

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

ZRW6UT	PowerPlex® Fusion 6C					
	10,16.3	16,23	10	16	11,13	
1	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19	5,9	19,21	22.2,28.2	6,9	11
	17	10	17	19		

TABLE 1

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

29WHP3	GlobalFiler™ Express					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
2FXW9H	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
2NR6L8	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
2VA9VU	GlobalFiler™					
	14,16	20,21	10	15,19	10,11	
2	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23			16	7,9.3	8,11
	19	10			2	
2W7Q3D	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
38ZKJR	GlobalFiler™					
	14,16	20,21	10	15,19	10,11	
2	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23			16	7,9.3	8,11
	19	10			2	
3HZUJB	Identifiler®					
		20,21		15,19	10,11	
2	8,10	11,14			11,12	10,14
	12,14	12,14.2	28,32.2		X,Y	12,12
	22,23				7,9.3	8,11
	19,19					

TABLE 1

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

3R64QZ	Identifiler®					
		20,21		15,19	10,11	
2		8,10	11,14		11,12	10,14
		12,14	12,14.2	28,32.2	X,Y	12,12
		22,23			7,9.3	8,11
		19,19				
3TXU2U	GlobalFiler™					
		14,16	20,21	10	15,19	10,11
2		8,10	11,14	15	15,16	11,12
		12,14	12,14.2	28,32.2	8,11	X,Y
		22,23			16	7,9.3
		19	10			2
3UAVL8	GlobalFiler™					
		14,16	20,21	10,10	15,19	10,11
2		8,10	11,14	15,15	15,16	11,12
		12,14	12,14.2	28,32.2	8,11	X,Y
		22,23			16,16	7,9.3
		19,19	10			2
48F7TU	GlobalFiler™					
		14,16	20,21	10	15,19	10,11
2		8,10	11,14	15	15,16	11,12
		12,14	12,14.2	28,32.2	8,11	X,Y
		22,23			16	7,9.3
		19	10			2
4ALGVP	PowerPlex® Fusion 6C					
		14,16	20,21	10	15,19	10,11
2		8,10	11,14	15	15,16	11,12
		12,14	12,14.2	28,32.2	8,11	X,Y
		22,23	2.2,13	9,11	16	7,9.3
		19	10	19	18	8,11
4HXLQG	PowerPlex® Fusion 6C					
		14,16	20,21	10,10	15,19	10,11
2		8,10	11,14	15,15	15,16	11,12
		12,14	12,14.2	28,32.2	8,11	X,Y
		22,23	2.2,13	9,11	16,16	7,9.3
		19,19	10	19	18	8,11
4MTDYE	PowerPlex® Fusion 6C					
		14,16	20,21	10,10	15,19	10,11
2		8,10	11,14	15,15	15,16	11,12
		12,14	12,14.2	28,32.2	8,11	X,Y
		22,23	2.2,13	9,11	16,16	7,9.3
		19,19	10	19	18	8,11

TABLE 1

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

## Item 2 - STR Results

4TEKCP	PowerPlex® 21					
	14,16	20,21		15,19	10,11	12,19
2	8,10	11,14		15,16	11,12	10,14
	12,14	12,14.2	28,32.2		X,Y	12,12
	22,23	2.2,13	9,11		7,9.3	8,11
	19,19					
6NGCPH	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
73WVQA	GlobalFiler™ Express					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
79M63T	PowerPlex® Fusion 5C					
	14,16	20,21	10	15,19	10,11	
2	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23	2.2,13	9,11		7,9.3	8,11
	19	10				
7BBRJM	Identifiler® Plus					
		20,21		15,19	10,11	
2	8,10	11,14			11,12	10,14
	12,14	12,14.2	28,32.2		X,Y	12,12
	22,23				7,9.3	8,11
	19,19					
7KDYC2	Identifiler® Direct					
	-	20,21	-	15,19	10,11	-
2	8,10	11,14	-	-	11,12	10,14
	12,14	12,14.2	28,32.2	-	X,Y	12
	22,23	-	-	-	7,9.3	8,11
	19	-	-	-	-	
7MKDQA	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		

TABLE 1

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

## Item 2 - STR Results

7RAQRX	PowerPlex® 16HS					
				15,19	10,11	
2	8,10	11,14			11,12	10,14
	12,14		28,32.2		X,Y	12,12
	22,23	2.2,13	9,11		7,9.3	8,11
	19,19					
8AA4TW	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
8FFN3M	GlobalFiler™ (STRmix)					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
8NA67X	Identifiler® Direct					
		20,21		15,19	10,11	
2	8,10	11,14			11,12	10,14
	12,14	12,14.2	28,32.2		X,Y	12
	22,23				7,9.3	8,11
	19					
8UEJC9	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
92DQ83	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
974XRV	GlobalFiler™ Express					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	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

978L4V	GlobalFiler™					
		14,16	20,21	10,10	15,19	10,11
2		8,10	11,14	15,15	15,16	11,12 10,14
		12,14	12,14.2	28,32.2	8,11	X,Y 12,12
		22,23			16,16	7,9.3 8,11
		19,19	10			2
98343B	PowerPlex® Fusion 6C					
		14,16	20,21	10,10	15,19	10,11
2		8,10	11,14	15,15	15,16	11,12 10,14
		12,14	12,14.2	28,32.2	8,11	X,Y 12,12
		22,23	2.2,13	9,11	16,16	7,9.3 8,11
		19,19	10	19	18	
98E33Y	Identifiler® Direct					
		-	20,21	-	15,19	10,11 -
2		8,10	11,14	-	-	11,12 10,14
		12,14	12,14.2	28,32.2	-	X,Y 12
		22,23	-	-	-	7,9.3 8,11
		19	-	-	-	-
ACQ6QF	PowerPlex® Fusion 6C					
		14,16	20,21	10,10	15,19	10,11
2		8,10	11,14	15,15	15,16	11,12 10,14
		12,14	12,14.2	28,32.2	8,11	X,Y 12,12
		22,23	2.2,13	9,11	16,16	7,9.3 8,11
		19,19	10	19	18	
B9MRD2	Identifiler®					
		-	20,21	-	15,19	10,11 -
2		8,10	11,14	-	-	11,12 10,14
		12,14	12,14.2	28,32.2	-	X,Y 12,12
		22,23	-	-	-	7,9.3 8,11
		19,19	-	-	-	-
BEBG26	GlobalFiler™					
		14,16	20,21	10,10	15,19	10,11
2		8,10	11,14	15,15	15,16	11,12 10,14
		12,14	12,14.2	28,32.2	8,11	X,Y 12,12
		22,23			16,16	7,9.3 8,11
		19,19	10			2
BYYX8K	GlobalFiler™					
		14,16	20,21	10	15,19	10,11
2		8,10	11,14	15	15,16	11,12 10,14
		12,14	12,14.2	28,32.2	8,11	X,Y 12
		22,23			16	7,9.3 8,11
		19	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

C863VU	PowerPlex® Fusion 5C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11		7,9.3	8,11
	19,19	10				
CAATUA	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
CABPAK	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
CF2ZKH	GlobalFiler™ (STRMix)					
	14,16	20,21	10	15,19	10,11	
2	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23			16	7,9.3	8,11
	19	10			2	
CGWKBN	PowerPlex® fusion					
	14,16	20,21	10	15,19	10,11	
2	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23	2.2,13	9,11		7,9.3	8,11
	19	10				
CKYCQF	PowerPlex® Fusion 6C					
	14,16	20,21	10	15,19	10,11	
2	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23	2.2,13	9,11	16	7,9.3	8,11
	19	10	19	18		
CWLNP	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		

TABLE 1

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

## Item 2 - STR Results

DDQEAM	PowerPlex® Fusion 5C					
	14,16	20,21	10	15,19	10,11	
2	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23	2.2,13	9,11		7,9.3	8,11
	19	10				
DHKCXE	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
EE3GT2	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
EFPA8G	GlobalFiler™					
	14,16	20,21	10	15,19	10,11	
2	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23			16	7,9.3	8,11
	19	10			2	
F984BA	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
FEWH6X	Identifiler® Plus					
		20,21		15,19	10,11	
2	8,10	11,14			11,12	10,14
	12,14	12,14.2	28,32.2		X,Y	12,12
	22,23				7,9.3	8,11
	19,19					
FHXNLN	PowerPlex® Fusion 6C					
	14,16	20,21	10	15,19	10,11	
2	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23	2.2,13	9,11	16	7,9.3	8,11
	19	10	19	18		

TABLE 1

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

## Item 2 - STR Results

FYGG98	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
HDCLH2	Identifiler® Plus					
		20,21		15,19	10,11	
2	8,10	11,14			11,12	10,14
	12,14	12,14.2	28,32.2		X,Y	12,12
	22,23				7,9.3	8,11
	19,19					
HGEH4P	Identifiler® Direct					
	-	20,21	-	15,19	10,11	-
2	8,10	11,14	-	-	11,12	10,14
	12,14	12,14.2	28,32.2	-	X,Y	12
	22,23	-	-	-	7,9.3	8,11
	19	-	-	-	-	
HGEKVE	GlobalFiler™					
	14,16	20,21	10	15,19	10,11	
2	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23			16	7,9.3	8,11
	19	10			2	
HM4ZL8	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
J2HN4V	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
J2UGNA	GlobalFiler™					
	14,16	20,21	10	15,19	10,11	
2	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23			16	7,9.3	8,11
	19	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

J3P3FF	PowerPlex® Fusion					
	14,16	20,21	10	15,19	10,11	
2	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23	2.2,13	9,11		7,9.3	8,11
	19	10				
J4N9RV	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
J7PART	VeriFiler					
	14,16	20,21	10,10	15,19	10,11	12,19
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11		7,9.3	8,11
	19,19				2	
JAPJT8	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
JEJ6G	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
K36MUY	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
K77NMU	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	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

K8EZEH	GlobalFiler™ Express					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
KD3M83	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16	7,9.3	8,11
	19,19	10	19	18		
KUCAXK	PowerPlex® Fusion 6c					
	14,16	20,21	10	15,19	10,11	
2	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23	2.2,13	9,11	16	7,9.3	8,11
	19	10	19	18		
LMMCJG	GlobalFiler™ Express					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
LNHX4K	Identifiler® DIRECT					
	-	20,21	-	15,19	10,11	-
2	8,10	11,14	-	-	11,12	10,14
	12,14	12,14.2	28,32.2	-	X,Y	12
	22,23	-	-	-	7,9.3	8,11
	19	-	-	-	-	
LRLQY6	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
MBTDZ3	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		

TABLE 1

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

## Item 2 - STR Results

MQ3638	GlobalFiler™ (STRmix)					
	14,16	20,21	10	15,19	10,11	
2	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23			16	7,9.3	8,11
	19	10			2	
MTVW7T	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
MZULMW	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
NL3D8F	NGM SElect					
	14,16	20,21	10,10	15,19		
2		11,14	15,15	15,16		10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	
	22,23			16,16	7,9.3	
	19,19					
NVR3ZP	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
PAR4CQ	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
PENN98	GlobalFiler™					
	14,16	20,21	10	15,19	10,11	
2	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23			16	7,9.3	8,11
	19	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

PKRVLP	GlobalFiler™ Express					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
PRA2M3	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
QP7GJ3	Identifiler® Plus					
		20,21		15,19	10,11	
2	8,10	11,14			11,12	10,14
	12,14	12,14.2	28,32.2		X,Y	12,12
	22,23				7,9.3	8,11
	19,19					
QV3LWR	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
R2PRZ6	GlobalFiler™					
	14,16	20,21	10	15,19	10,11	
2	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23			16	7,9.3	8,11
	19	10			2	
R7HWTA	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
R8G36N	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		



TABLE 1

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

## Item 2 - STR Results

RF9E8H	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
RTXCB2	PowerPlex® Fusion 6C					
	14,16	20,21	10	15,19	10,11	
2	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23	2.2,13	9,11	16	7,9.3	8,11
	19	10	19	18		
RZWR7Z	PowerPlex® Fusion 6C					
	14,16	20,21	10	15,19	10,11	
2	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23	2.2,13	9,11	16	7,9.3	8,11
	19	10	19	18		
T4RRXG	PowerPlex® ESI Fast					
	14,16	20,21	10,10	15,19		
2		11,14	15,15	15,16		10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	
	22,23				7,9.3	
	19,19					
TDXYDG	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
U3U4UC	Identifiler® Direct					
		20,21		15,19	10,11	
2	8,10	11,14			11,12	10,14
	12,14	12,14.2	28,32.2		X,Y	12
	22,23				7,9.3	8,11
	19					
UQ2GVH	Identifiler® Plus					
		20,21		15,19	10,11	
2	8,10	11,14			11,12	10,14
	12,14	12,14.2	28,32.2		X,Y	12,12
	22,23				7,9.3	8,11
	19,19					

TABLE 1

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

UVBYRQ	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
VFFWNR	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
W38A78	PowerPlex® ESX17, GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
WQB4EU	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
X32F3R	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
XEXNLU	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
XR6A9T	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
2	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	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

Y3G2CT	GlobalFiler™					
		14,16	20,21	10,10	15,19	10,11
2		8,10	11,14	15,15	15,16	11,12 10,14
		12,14	12,14.2	28,32.2	8,11	X,Y 12,12
		22,23			16,16	7,9.3 8,11
		19,19	10			2
Y3XFAH	PowerPlex® Fusion 6C					
		14,16	20,21	10,10	15,19	10,11
2		8,10	11,14	15,15	15,16	11,12 10,14
		12,14	12,14.2	28,32.2	8,11	X,Y 12,12
		22,23	2.2,13	9,11	16,16	7,9.3 8,11
		19,19	10	19	18	
YAERNH	PowerPlex® Fusion 6C					
		14,16	20,21	10,10	15,19	10,11 ne
2		8,10	11,14	15,15	15,16	11,12 10,14
		12,14	12,14.2	28,32.2	8,11	X,Y 12,12
		22,23	2.2,13	9,11	16,16	7,9.3 8,11
		19,19	10	19	18	ne
YAFLC4	PowerPlex® Fusion 6C					
		14,16	20,21	10,10	15,19	10,11
2		8,10	11,14	15,15	15,16	11,12 10,14
		12,14	12,14.2	28,32.2	8,11	X,Y 12,12
		22,23	2.2,13	9,11	16,16	7,9.3 8,11
		19,19	10	19	18	
YF8WGM	PowerPlex® Fusion 6C					
		14,16	20,21	10,10	15,19	10,11
2		8,10	11,14	15,15	15,16	11,12 10,14
		12,14	12,14.2	28,32.2	8,11	X,Y 12,12
		22,23	2.2,13	9,11	16,16	7,9.3 8,11
		19,19	10	19	18	
ZERTET	PowerPlex® Fusion 6C					
		14,16	20,21	10	15,19	10,11
2		8,10	11,14	15	15,16	11,12 10,14
		12,14	12,14.2	28,32.2	8,11	X,Y 12
		22,23	2.2,13	9,11	16	7,9.3 8,11
		19	10	19	18	
ZRW6UT	PowerPlex® Fusion 6C					
		14,16	20,21	10	15,19	10,11
2		8,10	11,14	15	15,16	11,12 10,14
		12,14	12,14.2	28,32.2	8,11	X,Y 12,12
		22,23	2.2,13	9,11	16	7,9.3 8,11
		19	10	19	18	

TABLE 1

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

## Item 3 - STR Results

29WHP3	GlobalFiler™ Express					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
2NR6L8	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
2VA9VU	GlobalFiler™					
	14,16	20,21	10	15,19	10,11	
3	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23			16	7,9.3	8,11
	19	10			2	
2W7Q3D	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
38ZKJR	GlobalFiler™					
	14,16	20,21	10	15,19	10,11	
3	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23			16	7,9.3	8,11
	19	10			2	
3HZUJB	Identifiler®					
		20,21		15,19	10,11	
3	8,10	11,14			11,12	10,14
	12,14	12,14.2	28,32.2		X,Y	12,12
	22,23				7,9.3	8,11
	19,19					
3R64QZ	Identifiler®					
		20,21		15,19	10,11	
3	8,10	11,14			11,12	10,14
	12,14	12,14.2	28,32.2		X,Y	12,12
	22,23				7,9.3	8,11
	19,19					

TABLE 1

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

3TXU2U	GlobalFiler™					
	14,16	20,21	10	15,19	10,11	
3	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23			16	7,9.3	8,11
	19	10			2	
3UAVL8	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
48F7TU	GlobalFiler™					
	14,16	20,21	10	15,19	10,11	
3	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23			16	7,9.3	8,11
	19	10			2	
4ALGVP	PowerPlex® Fusion 6C (STRmix)					
	14,16	20,21	10	15,19	10,11	
3	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23	2.2,13	9,11	16	7,9.3	8,11
	19	10	19	18		
4HXLQG	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
4MTDYE	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
4TEKCP	PowerPlex® 21 (STRmix v2.06)					
	14,16	20,21		15,19	10,11	12,19
3	8,10	11,14		15,16	11,12	10,14
	12,14	12,14.2	28,32.2		X,Y	12,12
	22,23	2.2,13	9,11		7,9.3	8,11
	19,19					

TABLE 1

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

6NGCPH	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
73WVQA	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
79M63T	PowerPlex® Fusion 5C					
	14,16	20,21	10	15,19	10,11	
3	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23	2.2,13	9,11		7,9.3	8,11
	19	10				
7BBRJM	Identifiler® Plus					
		20,21		15,19	10,11	
3	8,10	11,14			11,12	10,14
	12,14	12,14.2	28,32.2		X,Y	12,12
	22,23				7,9.3	8,11
	19,19					
7KDYC2	Identifiler® Plus					
	-	20,21	-	15,19	10,11	-
3	8,10	11,14	-	-	11,12	10,14
	12,14	12,14.2	28,32.2	-	X,Y	12
	22,23	-	-	-	7,9.3	8,11
	19	-	-	-	-	
7MKDQA	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
7RAQRX	PowerPlex® 16HS					
				15,19	10,11	
3	8,10	11,14			11,12	10,14
	12,14		28,32.2		X,Y	12,12
	22,23	2.2,13	9,11		7,9.3	8,11
	19,19					

TABLE 1

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

8AA4TW	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
8FFN3M	GlobalFiler™ (STRmix)					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
8NA67X	Identifiler® Plus					
		20,21		15,19	10,11	
3	8,10	11,14			11,12	10,14
	12,14	12,14.2	28,32.2		X,Y	12
	22,23				7,9.3	8,11
	19					
8UEJC9	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
92DQ83	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
974XRV	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
978L4V	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	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 3 - STR Results

98E33Y	Identifiler® Plus					
	-	20,21	-	15,19	10,11	-
3	8,10	11,14	-	-	11,12	10,14
	12,14	12,14.2	28,32.2	-	X,Y	12
	22,23	-	-	-	7,9.3	8,11
	19	-	-	-	-	-
ACQ6QF	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
B9MRD2	Identifiler®					
	-	20,21	-	15,19	10,11	-
3	8,10	11,14	-	-	11,12	10,14
	12,14	12,14.2	28,32.2	-	X,Y	12,12
	22,23	-	-	-	7,9.3	8,11
	19,19	-	-	-	-	-
BEBG26	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
BYYX8K	GlobalFiler™ (STRmix)					
	14,16	20,21	10	15,19	10,11	
3	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23			16	7,9.3	8,11
	19	10			2	
C863VU	PowerPlex® Fusion 5C					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11		7,9.3	8,11
	19,19	10				
CAATUA	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		



TABLE 1

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

## Item 3 - STR Results

CABPAK	GlobalFiler™						
		14,16	20,21	10,10	15,19	10,11	
	3	8,10	11,14	15,15	15,16	11,12	10,14
		12,14	12,14.2	28,32.2	8,11	X,Y	12,12
		22,23			16,16	7,9.3	8,11
		19,19	10			2	
CF2ZKH	GlobalFiler™ (STRmix)						
		14,16	20,21	10	15,19	10,11	
	3	8,10	11,14	15	15,16	11,12	10,14
		12,14	12,14.2	28,32.2	8,11	X,Y	12
		22,23			16	7,9.3	8,11
		19	10			2	
CGWKBN	PowerPlex® fusion						
		14,16	20,21	10	15,19	10,11	
	3	8,10	11,14	15	15,16	11,12	10,14
		12,14	12,14.2	28,32.2	8,11	X,Y	12
		22,23	2.2,13	9,11		7,9.3	8,11
		19	10				
CKYCQF	PowerPlex® Fusion 6C (STRmix)						
		14,16	20,21	10	15,19	10,11	
	3	8,10	11,14	15	15,16	11,12	10,14
		12,14	12,14.2	28,32.2	8,11	X,Y	12
		22,23	2.2,13	9,11	16	7,9.3	8,11
		19	10	19	18		
CWLNP	PowerPlex® Fusion 6C (STRmix)						
		14,16	20,21	10,10	15,19	10,11	
	3	8,10	11,14	15,15	15,16	11,12	10,14
		12,14	12,14.2	28,32.2	8,11	X,Y	12,12
		22,23	2.2,13	9,11	16,16	7,9.3	8,11
		19,19	10	19	18		
DDQEAM	PowerPlex® Fusion 5C						
		14,16	20,21	10	15,19	10,11	
	3	8,10	11,14	15	15,16	11,12	10,14
		12,14	12,14.2	28,32.2	8,11	X,Y	12
		22,23	2.2,13	9,11		7,9.3	8,11
		19	10				
DHKCXE	GlobalFiler™						
		14,16	20,21	10,10	15,19	10,11	
	3	8,10	11,14	15,15	15,16	11,12	10,14
		12,14	12,14.2	28,32.2	8,11	X,Y	12,12
		22,23			16,16	7,9.3	8,11
		19,19	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 3 - STR Results

EE3GT2	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
EFPA8G	GlobalFiler™ (STRmix)					
	14,16	20,21	10	15,19	10,11	
3	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23			16	7,9.3	8,11
	19	10			2	
F984BA	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
FEWH6X	Identifiler® Plus					
		20,21		15,19	10,11	
3	8,10	11,14			11,12	10,14
	12,14	12,14.2	28,32.2		X,Y	12,12
	22,23				7,9.3	8,11
	19,19					
FHXNLN	PowerPlex® Fusion 6C					
	14,16	20,21	10	15,19	10,11	
3	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23	2.2,13	9,11	16	7,9.3	8,11
	19	10	19	18		
FYGG98	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
HDCLH2	Identifiler® Plus					
		20,21		15,19	10,11	
3	8,10	11,14			11,12	10,14
	12,14	12,14.2	28,32.2		X,Y	12,12
	22,23				7,9.3	8,11
	19,19					

TABLE 1

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

HGEH4P	Identifiler® Plus					
	-	20,21	-	15,19	10,11	-
3	8,10	11,14	-	-	11,12	10,14
	12,14	12,14.2	28,32.2	-	X,Y	12
	22,23	-	-	-	7,9.3	8,11
	19	-	-	-	-	-
J2HN4V	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
J2UGNA	GlobalFiler™					
	14,16	20,21	10	15,19	10,11	
3	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23			16	7,9.3	8,11
	19	10			2	
J3P3FF	PowerPlex® Fusion					
	14,16	20,21	10	15,19	10,11	
3	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23	2.2,13	9,11		7,9.3	8,11
	19	10				
J4N9RV	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
J7PART	VeriFiler					
	14,16	20,21	10,10	15,19	10,11	12,19
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11		7,9.3	8,11
	19,19				2	
JAPJT8	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	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 3 - STR Results

JEJ6G	Investigator® 24plex QS					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10				
K77NMU	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
K8EZEH	GlobalFiler™ Casework					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
KD3M83	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
KUCAXK	PowerPlex® Fusion 6c					
	14,16	20,21	10	15,19	10,11	
3	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23	2.2,13	9,11	16	7,9.3	8,11
	19	10	19	18		
LMMCJG	GlobalFiler™ Express					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	[15]	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
LNHX4K	Identifiler® PLUS					
	-	20,21	-	15,19	10,11	-
3	8,10	11,14	-	-	11,12	10,14
	12,14	12,14.2	28,32.2	-	X,Y	12
	22,23	-	-	-	7,9.3	8,11
	19	-	-	-	-	

TABLE 1

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

LRLQY6	GlobalFiler™						
		14,16	20,21	10,10	15,19	10,11	
	3	8,10	11,14	15,15	15,16	11,12	10,14
		12,14	12,14.2	28,32.2	8,11	X,Y	12,12
		22,23			16,16	7,9.3	8,11
		19,19	10			2	
MBTDZ3	PowerPlex® Fusion 6C						
		14,16	20,21	10,10	15,19	10,11	
	3	8,10	11,14	15,15	15,16	11,12	10,14
		12,14	12,14.2	28,32.2	8,11	X,Y	12,12
		22,23	2.2,13	9,11	16,16	7,9.3	8,11
		19,19	10	19	18		
MQ3638	GlobalFiler™ (STRmix)						
		14,16	20,21	10	15,19	10,11	
	3	8,10	11,14	15	15,16	11,12	10,14
		12,14	12,14.2	28,32.2	8,11	X,Y	12
		22,23			16	7,9.3	8,11
		19	10			2	
MTVW7T	PowerPlex® Fusion 6C						
		14,16	20,21	10,10	15,19	10,11	
	3	8,10	11,14	15,15	15,16	11,12	10,14
		12,14	12,14.2	28,32.2	8,11	X,Y	12,12
		22,23	2.2,13	9,11	16,16	7,9.3	8,11
		19,19	10	19	18		
NL3D8F	NGM SElect						
		14,16	20,21	10,10	15,19		
	3		11,14	15,15	15,16		10,14
		12,14	12,14.2	28,32.2	8,11	X,Y	
		22,23			16,16	7,9.3	
		19,19					
NVR3ZP	PowerPlex® Fusion 6C						
		14,16	20,21	10,10	15,19	10,11	
	3	8,10	11,14	15,15	15,16	11,12	10,14
		12,14	12,14.2	28,32.2	8,11	X,Y	12,12
		22,23	2.2,13	9,11	16,16	7,9.3	8,11
		19,19	10	19	18		
PAR4CQ	PowerPlex® Fusion 6C						
		14,16	20,21	10,10	15,19	10,11	
	3	8,10	11,14	15,15	15,16	11,12	10,14
		12,14	12,14.2	28,32.2	8,11	X,Y	12,12
		22,23	2.2,13	9,11	16,16	7,9.3	8,11
		19,19	10	19	18		

TABLE 1

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

## Item 3 - STR Results

PKRVLP	GlobalFiler™					
		14,16	20,21	10,10	15,19	10,11
	3	8,10	11,14	15,15	15,16	11,12 10,14
		12,14	12,14.2	28,32.2	8,11	X,Y 12,12
		22,23			16,16	7,9.3 8,11
		19,19	10			2
PRA2M3	GlobalFiler™					
		14,16	20,21	10,10	15,19	10,11
	3	8,10	11,14	15,15	15,16	11,12 10,14
		12,14	12,14.2	28,32.2	8,11	X,Y 12,12
		22,23			16,16	7,9.3 8,11
		19,19	10			2
QP7GJ3	Identifiler® Plus					
			20,21		15,19	10,11
	3	8,10	11,14			11,12 10,14
		12,14	12,14.2	28,32.2		X,Y 12,12
		22,23				7,9.3 8,11
		19,19				
QV3LWR	PowerPlex® Fusion 6C					
		14,16	20,21	10,10	15,19	10,11
	3	8,10	11,14	15,15	15,16	11,12 10,14
		12,14	12,14.2	28,32.2	8,11	X,Y 12,12
		22,23	2.2,13	9,11	16,16	7,9.3 8,11
		19,19	10	19	18	
R7HWTA	PowerPlex® Fusion 6C (STRmix)					
		14,16	20,21	10,10	15,19	10,11
	3	8,10	11,14	15,15	15,16	11,12 10,14
		12,14	12,14.2	28,32.2	8,11	X,Y 12,12
		22,23	2.2,13	9,11	16,16	7,9.3 8,11
		19,19	10	19	18	
R8G36N	PowerPlex® Fusion 6C					
		14,16	20,21	10,10	15,19	10,11
	3	8,10	11,14	15,15	15,16	11,12 10,14
		12,14	12,14.2	28,32.2	8,11	X,Y 12,12
		22,23	2.2,13	9,11	16,16	7,9.3 8,11
		19,19	10	19	18	
RF9E8H	GlobalFiler™					
		14,16	20,21	10,10	15,19	10,11
	3	8,10	11,14	15,15	15,16	11,12 10,14
		12,14	12,14.2	28,32.2	8,11	X,Y 12,12
		22,23			16,16	7,9.3 8,11
		19,19	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 3 - STR Results

RTXC82	PowerPlex® Fusion 6C (STRmix)					
	14,16	20,21	10	15,19	10,11	
3	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23	2.2,13	9,11	16	7,9.3	8,11
	19	10	19	18		
RZWR7Z	PowerPlex® Fusion 6C (STRmix)					
	14,16	20,21	10	15,19	10,11	
3	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23	2.2,13	9,11	16	7,9.3	8,11
	19	10	19	18		
T4RRXG	PowerPlex® ESI Fast					
	14,16	20,21	10,10	15,19		
3		11,14	15,15	15,16		10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	
	22,23				7,9.3	
	19,19					
TDXYDG	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
U3U4UC	Identifiler® Plus					
		20,21		15,19	10,11	
3	8,10	11,14			11,12	10,14
	12,14	12,14.2	28,32.2		X,Y	12
	22,23				7,9.3	8,11
	19					
UQ2GVH	Identifiler® Plus					
		20,21		15,19	10,11	
3	8,10	11,14			11,12	10,14
	12,14	12,14.2	28,32.2		X,Y	12,12
	22,23				7,9.3	8,11
	19,19					
UVBYRQ	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		

TABLE 1

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

## Item 3 - STR Results

VFFWNR	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
W38A78	PowerPlex® ESX17, GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
X32F3R	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
XEXNLU	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
XR6A9T	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
Y3G2CT	GlobalFiler™					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23			16,16	7,9.3	8,11
	19,19	10			2	
Y3XFAH	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		



TABLE 1

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

## Item 3 - STR Results

YAERNH	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	ne
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18	ne	
YAFLC4	PowerPlex® Fusion 6C (STRmix)					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
YF8WGM	PowerPlex® Fusion 6C					
	14,16	20,21	10,10	15,19	10,11	
3	8,10	11,14	15,15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12,12
	22,23	2.2,13	9,11	16,16	7,9.3	8,11
	19,19	10	19	18		
ZERTET	PowerPlex® Fusion 6C (STRmix)					
	14,16	20,21	10	15,19	10,11	
3	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23	2.2,13	9,11	16	7,9.3	8,11
	19	10	19	18		
ZRW6UT	PowerPlex® Fusion 6C (STRmix)					
	14,16	20,21	10	15,19	10,11	
3	8,10	11,14	15	15,16	11,12	10,14
	12,14	12,14.2	28,32.2	8,11	X,Y	12
	22,23	2.2,13	9,11	16	7,9.3	8,11
	19	10	19	18		

TABLE 1

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

## Item 4 - STR Results

29WHP3	GlobalFiler™ Express					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
2NR6L8	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
2VA9VU	GlobalFiler™					
	10,16.3	16,23	10	16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19			22.2,28.2	6,9	11
	17	10			2	
2W7Q3D	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
38ZKJR	GlobalFiler™					
	10,16.3	16,23	10	16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19			22.2,28.2	6,9	11
	17	10			2	
3HZUJB	Identifiler®					
		16,23		16,16	11,13	
4	10,11	8,14			11,13	10,11
	15,17	12,15.2	31,31		X,Y	11,11
	19,19				6,9	11,11
	17,17					
3R64QZ	Identifiler®					
		16,23		16,16	11,13	
4	10,11	8,14			11,13	10,11
	15,17	12,15.2	31,31		X,Y	11,11
	19,19				6,9	11,11
	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 4 - STR Results

3TXU2U	GlobalFiler™					
	10,16.3	16,23	10	16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19			22,2,28.2	6,9	11
	17	10			2	
3UAVL8	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22,2,28.2	6,9	11,11
	17,17	10			2	
48F7TU	GlobalFiler™					
	10,16.3	16,23	10	16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19			22,2,28.2	6,9	11
	17	10			2	
4ALGVP	PowerPlex® Fusion 6C (STRmix)					
	10,16.3	16,23	10	16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19	5,9	19,21	22,2,28.2	6,9	11
	17	10	17	19		
4HXLQG	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22,2,28.2	6,9	11,11
	17,17	10	17	19		
4MTDYE	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22,2,28.2	6,9	11,11
	17,17	10	17	19		
4TEKCP	PowerPlex® 21 (STRmix v2.06)					
	10,16.3	16,23	16,23	16,16	11,13	12,17
4	10,11	8,14		15,19	11,13	10,11
	15,17	12,15.2	31,31		X,Y	11,11
	19,19	5,9	19,21		6,9	11,11
	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 4 - STR Results

6NGCPH	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
73WVQA	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
79M63T	PowerPlex® Fusion 5C					
	10,16.3	16,23	10	16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19	5,9	19,21		6,9	11
	17	10				
7BBRJM	Identifiler® Plus					
		16,23		16,16	11,13	
4	10,11	8,14			11,13	10,11
	15,17	12,15.2	31,31		X,Y	11,11
	19,19				6,9	11,11
	17,17					
7KDYC2	Identifiler® Plus					
	-	16,23	-	16	11,13	-
4	10,11	8,14	-	-	11,13	10,11
	15,17	12,15.2	31	-	X,Y	11
	19	-	-	-	6,9	11
	17	-	-	-	-	
7MKDQA	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
7RAQRX	PowerPlex® 16HS					
				16,16	11,13	
4	10,11	8,14			11,13	10,11
	15,17		31,31		X,Y	11,11
	19,19	5,9	19,21		6,9	11,11
	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 4 - STR Results

8AA4TW	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
8FFN3M	GlobalFiler™ (STRmix)					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
8NA67X	Identifiler® Plus					
		16,23		16	11,13	
4	10,11	8,14			11,13	10,11
	15,17	12,15.2	31		X,Y	11
	19				6,9	11
	17					
8UEJC9	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
92DQ83	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
974XRV	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
978L4V	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	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 4 - STR Results

98E33Y	Identifiler® Plus					
	-	16,23	-	16	11,13	-
4	10,11	8,14	-	-	11,13	10,11
	15,17	12,15.2	31	-	X,Y	11
	19	-	-	-	6,9	11
	17	-	-	-	-	-
ACQ6QF	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
B9MRD2	Identifiler®					
	-	16,23	-	16,16	11,13	-
4	10,11	8,14	-	-	11,13	10,11
	15,17	12,15.2	31,31	-	X,Y	11,11
	19,19	-	-	-	6,9	11,11
	17,17	-	-	-	-	-
BEBG26	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
BYYX8K	GlobalFiler™ (STRmix)					
	10,16.3	16,23	10	16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19			22.2,28.2	6,9	11
	17	10			2	
C863VU	PowerPlex® Fusion 5C					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21		6,9	11,11
	17,17	10				
CAATUA	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		

TABLE 1

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

CABPAK	GlobalFiler™						
		10,16.3	16,23	10,10	16,16	11,13	
	4	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31,31	16,17	X,Y	11,11
		19,19			22.2,28.2	6,9	11,11
	17,17	10			2		
CF2ZKH	GlobalFiler™ (STRmix)						
		10,16.3	16,23	10	16	11,13	
	4	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31	16,17	X,Y	11
		19			22.2,28.2	6,9	11
	17	10			2		
CGWKBN	PowerPlex® fusion						
		10,16.3	16,23	10	16	11,13	
	4	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31	16,17	X,Y	11
		19	5,9	19,21		6,9	11
	17	10					
CKYCQF	PowerPlex® Fusion 6C (STRmix)						
		10,16.3	16,23	10	16	11,13	
	4	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31	16,17	X,Y	11
		19	5,9	19,21	22.2,28.2	6,9	11
	17	10	17	19			
CWLNP	PowerPlex® Fusion 6C (STRmix)						
		10,16.3	16,23	10,10	16,16	11,13	
	4	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31,31	16,17	X,Y	11,11
		19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19			
DDQEAM	PowerPlex® Fusion 5C						
		10,16.3	16,23	10	16	11,13	
	4	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31	16,17	X,Y	11
		19	5,9	19,21		6,9	11
	17	10					
DHKCXE	GlobalFiler™						
		10,16.3	16,23	10,10	16,16	11,13	
	4	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31,31	16,17	X,Y	11,11
		19,19			22.2,28.2	6,9	11,11
	17,17	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 4 - STR Results

EE3GT2	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
EFPA8G	GlobalFiler™ (STRmix)					
	10,16.3	16,23	10	16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19			22.2,28.2	6,9	11
	17	10			2	
F984BA	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
FEWH6X	Identifiler® Plus					
		16,23		16,16	11,13	
4	10,11	8,14			11,13	10,11
	15,17	12,15.2	31,31		X,Y	11,11
	19,19				6,9	11,11
	17,17					
FHXNLN	PowerPlex® Fusion 6C					
	10,16.3	16,23	10	16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19	5,9	19,21	22.2,28.2	6,9	11
	17	10	17	19		
FYGG98	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
HDCLH2	Identifiler® Plus					
		16,23		16,16	11,13	
4	10,11	8,14			11,13	10,11
	15,17	12,15.2	31,31		X,Y	11,11
	19,19				6,9	11,11
	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 4 - STR Results

HGEH4P	Identifiler® Plus					
	-	16,23	-	16	11,13	-
4	10,11	8,14	-	-	11,13	10,11
	15,17	12,15.2	31	-	X,Y	11
	19	-	-	-	6,9	11
	17	-	-	-	-	-
J2HN4V	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
J2UGNA	GlobalFiler™					
	10,16.3	16,23	10	16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19			22.2,28.2	6,9	11
	17	10			2	
J3P3FF	PowerPlex® Fusion					
	10,16.3	16,23	10	16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19	5,9	19,21		6,9	11
	17	10				
J4N9RV	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
J7PART	VeriFiler					
	10,16.3	16,23	10,10	16,16	11,13	12,17
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21		6,9	11,11
	17,17				2	
JAPJT8	GlobalFiler™					
	16.3,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	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 4 - STR Results

JEJ6G	Investigator® 24plex QS					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22,2,28,2	6,9	11,11
	17,17	10				
K77NMU	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22,2,28,2	6,9	11,11
	17,17	10			2	
K8EZEH	GlobalFiler™ Casework					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22,2,28,2	6,9	11,11
	17,17	10			2	
KD3M83	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22,2,28,2	6,9	11,11
	17,17	10	17	19		
KUCAXK	PowerPlex® Fusion 6c					
	10,16.3	16,23	10	16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19	5,9	19,21	22,2,28,2	6,9	11
	17	10	17	19		
LMMCJG	GlobalFiler™ Express					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22,2,28,2	6,9	11,11
	17,17	10			2	
LNHX4K	Identifiler® PLUS					
	-	16,23	-	16	11,13	-
4	10,11	8,14	-	-	11,13	10,11
	15,17	12,15.2	31	-	X,Y	11
	19	-	-	-	6,9	11
	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 4 - STR Results

LRLQY6	GlobalFiler™						
		10,16.3	16,23	10,10	16,16	11,13	
	4	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31,31	16,17	X,Y	11,11
		19,19			22.2,28.2	6,9	11,11
		17,17	10			2	
MBTDZ3	PowerPlex® Fusion 6C						
		10,16.3	16,23	10,10	16,16	11,13	
	4	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31,31	16,17	X,Y	11,11
		19,19	5,9	19,21	22.2,28.2	6,9	11,11
		17,17	10	17	19		
MQ3638	GlobalFiler™ (STRmix)						
		10,16.3	16,23	10	16	11,13	
	4	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31	16,17	X,Y	11
		19			22.2,28.2	6,9	11
		17	10			2	
MTVW7T	PowerPlex® Fusion 6C						
		10,16.3	16,23	10,10	16,16	11,13	
	4	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31,31	16,17	X,Y	11,11
		19,19	5,9	19,21	22.2,28.2	6,9	11,11
		17,17	10	17	19		
NL3D8F	NGM SElect						
		10,16.3	16,23	10,10	16,16		
	4		8,14	13,15	15,19		10,11
		15,17	12,15.2	31,31	16,17	X,Y	
		19,19			22.2,28.2	6,9	
		17,17					
NVR3ZP	PowerPlex® Fusion 6C						
		10,16.3	16,23	10,10	16,16	11,13	
	4	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31,31	16,17	X,Y	11,11
		19,19	5,9	19,21	22.2,28.2	6,9	11,11
		17,17	10	17	19		
PAR4CQ	PowerPlex® Fusion 6C						
		10,16.3	16,23	10,10	16,16	11,13	
	4	10,11	8,14	13,15	15,19	11,13	10,11
		15,17	12,15.2	31,31	16,17	X,Y	11,11
		19,19	5,9	19,21	22.2,28.2	6,9	11,11
		17,17	10	17	19		

TABLE 1

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

PKRVLP	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
PRA2M3	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
QP7GJ3	Identifiler® Plus					
		16,23		16,16	11,13	
4	10,11	8,14			11,13	10,11
	15,17	12,15.2	31,31		X,Y	11,11
	19,19				6,9	11,11
	17,17					
QV3LWR	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
R7HWTA	PowerPlex® Fusion 6C (STRmix)					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
R8G36N	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
RF9E8H	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	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 4 - STR Results

RTXCB2	PowerPlex® Fusion 6C (STRmix)					
	10,16.3	16,23	10	16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19	5,9	19,21	22.2,28.2	6,9	11
	17	10	17	19		
RZWR7Z	PowerPlex® Fusion 6C (STRmix)					
	10,16.3	16,23	10	16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19	5,9	19,21	22.2,28.2	6,9	11
	17	10	17	19		
T4RRXG	PowerPlex® ESI Fast					
	10,16.3	16,23	10,10	16,16		
4		8,14	13,15	15,19		10,11
	15,17	12,15.2	31,31	16,17	X,Y	
	19,19				6,9	
	17,17					
TDXYDG	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
U3U4UC	Identifiler® Plus					
		16,23		16	11,13	
4	10,11	8,14			11,13	10,11
	15,17	12,15.2	31		X,Y	11
	19				6,9	11
	17					
UQ2GVH	Identifiler® Plus					
		16,23		16,16	11,13	
4	10,11	8,14			11,13	10,11
	15,17	12,15.2	31,31		X,Y	11,11
	19,19				6,9	11,11
	17,17					
UVBYRQ	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		

TABLE 1

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

VFFWNR	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
W38A78	PowerPlex® ESX17, GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
X32F3R	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
XEXNLU	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
XR6A9T	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
Y3G2CT	GlobalFiler™					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19			22.2,28.2	6,9	11,11
	17,17	10			2	
Y3XFAH	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		

TABLE 1

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

YAERNH	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	ne
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19	ne	
YAFLC4	PowerPlex® Fusion 6C (STRmix)					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
YF8WGM	PowerPlex® Fusion 6C					
	10,16.3	16,23	10,10	16,16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31,31	16,17	X,Y	11,11
	19,19	5,9	19,21	22.2,28.2	6,9	11,11
	17,17	10	17	19		
ZERTET	PowerPlex® Fusion 6C (STRmix)					
	10,16.3	16,23	10	16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19	5,9	19,21	22.2,28.2	6,9	11
	17	10	17	19		
ZRW6UT	PowerPlex® Fusion 6C (STRmix)					
	10,16.3	16,23	10	16	11,13	
4	10,11	8,14	13,15	15,19	11,13	10,11
	15,17	12,15.2	31	16,17	X,Y	11
	19	5,9	19,21	22.2,28.2	6,9	11
	17	10	17	19		

# 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	
<b>Item 1 - YSTR Results</b>										
2W7Q3D	Yfiler™									
1		14	11,15	13	29	24	10	13	13	
		15	12	12	19	15	19			
							23			12
4ALGVP	Yfiler™									
1		14	11,15	13	29	24	10	13	13	
		15	12	12	19	15	19			
							23			12
4HXLQG	Yfiler™									
1		14	11,15	13	29	24	10	13	13	
		15	12	12	19	15	19			
							23			12
4MTDYE	Yfiler™									
1		14	11,15	13	29	24	10	13	13	
		15	12	12	19	15	19			
							23			12
6NGCPH	Yfiler™									
1		14	11,15	13	29	24	10	13	13	
		15	12	12	19	15	19			
							23			12
73WVQA	PowerPlex® Y 23									
1		14	11,15	13	29	24	10	13	13	
		15	12	12	19	15	19			21
			12	13	17	19	23	10		12
79M63T	Yfiler™									
1		14	11,15	13	29	24	10	13	13	
		15	12	12	19	15	19			
							23			12
7BBRJM	PowerPlex® Y 23									
1		14	11,15	13	29	24	10	13	13	
		15	12	12	19	15	19			21
			12	13	17	19	23	10		12
7KDYC2	Yfiler™									
1		-	14	11,15	13	29	24	10	13	13
		15	12	12	19	-	15	19	-	-
								23		12
7MKDQA	Yfiler™									
1		14	11,15	13	29	24	10	13	13	
		15	12	12	19	15	19			
							23			12
7RAQRX	Yfiler™ Plus									
1	35,36	14	11,15	13	29	24	10	13	13	
		15	12	12	19	29	15	19	11	21
		38	12		17	19	23	23		12
8AA4TW	Yfiler™									
1		14	11,15	13	29	24	10	13	13	
		15	12	12	19	15	19			
							23			12



TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 1 - YSTR Results</b>										
8FFN3M	Yfiler™ Plus									
	35,36	14	11,15	13	29	24	10	13	13	
1	15	12	12	19	29	15	19	11	21	
	38	12		17	19	23	23		12	
8NA67X	Yfiler™									
		14	11,15	13	29	24	10	13	13	
1	15	12	12	19		15	19			
							23		12	
8UEJC9	PowerPlex® Y 23									
		14	11,15	13	29	24	10	13	13	
1	15	12	12	19		15	19		21	
		12	13	17	19		23	10	12	
98E33Y	Yfiler™									
	-	14	11,15	13	29	24	10	13	13	
1	15	12	12	19	-	15	19	-	-	
	-	-	-	-	-	-	23	-	12	
ACQ6QF	Yfiler™									
		14	11,15	13	29	24	10	13	13	
1	15	12	12	19		15	19			
							23		12	
BEBG26	PowerPlex® Y 23									
		14	11,15	13	29	24	10	13	13	
1	15	12	12	19		15	19		21	
		12	13	17	19		23	10	12	
C863VU	PowerPlex® Y 23									
		14	11,15	13	29	24	10	13	13	
1	15	12	12	19		15	19		21	
		12	13	17	19		23	10	12	
CAATUA	Yfiler™									
		14	11,15	13	29	24	10	13	13	
1	15	12	12	19		15	19			
							23		12	
CGWKBN	Yfiler™									
		14	11,15	13	29	24	10	13	13	
1	15	12	12	19		15	19			
							23		12	
CVLNP	PowerPlex® Y 23									
		14	11,15	13	29	24	10	13	13	
1	15	12	12	19		15	19		21	
		12	13	17	19		23	10	12	
DDQEAM	Yfiler™									
		14	11,15	13	29	24	10	13	13	
1	15	12	12	19		15	19			
							23		12	
DHKCXE	Yfiler™									
		14	11,15	13	29	24	10	13	13	
1	15	12	12	19		15	19			
							23		12	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 1 - YSTR Results</b>										
EE3GT2	PowerPlex® Y 23									
1	14	11,15	13	29	24	10	13	13		
	15	12	12	19	15	19	19	21		
	12	13	17	19		23	10	12		
EFPA8G	PowerPlex® Y 23									
1	14	11,15	13	29	24	10	13	13		
	15	12	12	19	15	19	19	21		
	12	13	17	19		23	10	12		
F984BA	Yfiler™									
1	14	11,15	13	29	24	10	13	13		
	15	12	12	19	15	19				
						23		12		
FYGG98	Yfiler™									
1	14	11,15	13	29	24	10	13	13		
	15	12	12	19	15	19				
						23		12		
HGEH4P	Yfiler™									
1	-	14	11,15	13	29	24	10	13	13	
	15	12	12	19	-	15	19	-	-	
	-	-	-	-	-	-	23	-	12	
HM4ZL8	Yfiler™									
1	14	11,15	13	29	24	10	13	13		
	15	12	12	19	15	19				
						23		12		
J2HN4V	Yfiler™									
1	14	11,15	13	29	24	10	13	13		
	15	12	12	19	15	19				
						23		12		
J3P3FF	Yfiler™									
1	14	11,15	13	29	24	10	13	13		
	15	12	12	19	15	19				
						23		12		
J4N9RV	Yfiler™									
1	14	11,15	13	29	24	10	13	13		
	15	12	12	19	15	19				
						23		12		
J7PART	PowerPlex® Y 23									
1	14	11,15	13	29	24	10	13	13		
	15	12	12	19	15	19		21		
	12	13	17	19		23	10	12		
K77NMU	PowerPlex® Y 23									
1	14	11,15	13	29	24	10	13	13		
	15	12	12	19	15	19		21		
	12	13	17	19		23	10	12		
KD3M83	Yfiler™									
1	14	11,15	13	29	24	10	13	13		
	15	12	12	19	15	19				
						23		12		

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 1 - YSTR Results</b>										
LNHX4K	Yfiler™									
	-	14	11,15	13	29	24	10	13	13	
1	15	12	12	19	-	15	19	-	-	
	-	-	-	-	-	-	23	-	12	
LRLQY6	Yfiler™									
		14	11,15	13	29	24	10	13	13	
1	15	12	12	19		15	19			
							23		12	
MBTDZ3	Yfiler™									
		14	11,15	13	29	24	10	13	13	
1	15	12	12	19		15	19			
							23		12	
MQ3638	PowerPlex® Y 23									
		14	11,15	13	29	24	10	13	13	
1	15	12	12	19		15	19		21	
		12	13	17	19		23	10	12	
MTVW7T	Yfiler™									
		14	11,15	13	29	24	10	13	13	
1	15	12	12	19		15	19			
							23		12	
NL3D8F	PowerPlex® Y 23									
		14	11,15	13	29	24	10	13	13	
1	15	12	12	19		15	19		21	
		12	13	17	19		23	10	12	
NVR3ZP	Yfiler™									
		14	11,15	13	29	24	10	13	13	
1	15	12	12	19		15	19			
							23		12	
PAR4CQ	Yfiler™									
		14	11,15	13	29	24	10	13	13	
1	15	12	12	19		15	19			
							23		12	
PKRVLP	PowerPlex® Y 23									
		14	11,15	13	29	24	10	13	13	
1	15	12	12	19		15	19		21	
		12	13	17	19		23	10	12	
PRA2M3	Yfiler™									
		14	11,15	13	29	24	10	13	13	
1	15	12	12	19		15	19			
							23		12	
QV3LWR	Yfiler™									
		14	11,15	13	29	24	10	13	13	
1	15	12	12	19		15	19			
							23		12	
R2PRZ6							10			
1										

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 1 - YSTR Results

R7HWTA	PowerPlex® Y 23								
1	14	11,15	13	29	24	10	13	13	
	15	12	12	19	15	19	19	21	
	12	13	17	19		23	10	12	
R8G36N	Yfiler™								
1	14	11,15	13	29	24	10	13	13	
	15	12	12	19	15	19			
						23		12	
U3U4UC	Yfiler™								
1	14	11,15	13	29	24	10	13	13	
	15	12	12	19	15	19			
						23		12	
UVBYRQ	Yfiler™								
1	14	11,15	13	29	24	10	13	13	
	15	12	12	19	15	19			
						23		12	
VFFWNR	Yfiler™								
1	14	11,15	13	29	24	10	13	13	
	15	12	12	19	15	19			
						23		12	
WQB4EU	Yfiler™								
1	14	11,15	13	29	24	10	13	13	
	15	12	12	19	15	19			
						23		12	
X32F3R	Yfiler™								
1	14	11,15	13	29	24	10	13	13	
	15	12	12	19	15	19			
						23		12	
Y3G2CT	Yfiler™								
1	14	11,15	13	29	24	10	13	13	
	15	12	12	19	15	19			
						23		12	
Y3XFAH	Yfiler™								
1	14	11,15	13	29	24	10	13	13	
	15	12	12	19	15	19			
						23		12	
YAERNH	Yfiler™								
1	ne	14	11,15	13	29	24	10	13	13
	15	12	12	19	ne	15	19	ne	ne
	ne	ne	ne	ne	ne	ne	23	ne	12
YAFLC4	PowerPlex® Y 23								
1	14	11,15	13	29	24	10	13	13	
	15	12	12	19	15	19		21	
	12	13	17	19		23	10	12	
YF8WGM	Yfiler™								
1	14	11,15	13	29	24	10	13	13	
	15	12	12	19	15	19			
						23		12	

TABLE 2

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

Item 1 - YSTR Results

ZERTET	Yfiler™								
		14	11,15	13	29	24	10	13	13
1	15	12	12	19		15	19		
							23		12

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 2 - YSTR Results</b>										
2W7Q3D	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2		15	10	11	20	14	15			
							21			11
4ALGVP	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2		15	10	11	20	14	15			
							21			11
4HXLQG	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2		15	10	11	20	14	15			
							21			11
4MTDYE	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2		15	10	11	20	14	15			
							21			11
6NGCPH	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2		15	10	11	20	14	15			
							21			11
73WVQA	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
2		15	10	11	20	14	15		25	
		11	12	19	18		21	13		11
79M63T	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2		15	10	11	20	14	15			
							21			11
7BBRJM	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
2		15	10	11	20	14	15		25	
		11	12	19	18		21	13		11
7KDYC2	Yfiler™									
		-	14	13,14	13	29	22	10	11	13
2		15	10	11	20	-	14	15	-	-
		-	-	-	-	-	-	21	-	11
7MKDQA	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2		15	10	11	20	14	15			
							21			11
7RAQRX	Yfiler™ Plus									
		38	14	13,14	13	29	22	10	11	13
2		15	10	11	20	30	14	15	10	25
		39	11		19	18	20	21		11
8AA4TW	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2		15	10	11	20	14	15			
							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 2 - YSTR Results</b>										
8FFN3M	Yfiler™ Plus									
	38,38	14	13,14	13	29	22	10	11	13	
2	15	10	11	20	30	14	15	10	25	
	39	11		19	18	20	21		11	
8NA67X	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15			
							21		11	
8UEJC9	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
98E33Y	Yfiler™									
	-	14	13,14	13	29	22	10	11	13	
2	15	10	11	20	-	14	15	-	-	
	-	-	-	-	-	-	21	-	11	
ACQ6QF	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15			
							21		11	
BEBG26	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
C863VU	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
CAATUA	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15			
							21		11	
CGWKBN	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15			
							21		11	
CVLNP	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
DDQEAM	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15			
							21		11	
DHKCXE	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15			
							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 2 - YSTR Results</b>										
EE3GT2	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
EFPA8G	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
F984BA	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15			
							21		11	
FYGG98	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15			
							21		11	
HGEH4P	Yfiler™									
	-	14	13,14	13	29	22	10	11	13	
2	15	10	11	20	-	14	15	-	-	
	-	-	-	-	-	-	21	-	11	
HM4ZL8	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15			
							21		11	
J2HN4V	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15			
							21		11	
J3P3FF	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15			
							21		11	
J4N9RV	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15			
							21		11	
J7PART	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
K77NMU	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
KD3M83	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15			
							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 2 - YSTR Results</b>										
LNHX4K	Yfiler™									
	-	14	13,14	13	29	22	10	11	13	
2	15	10	11	20	-	14	15	-	-	
	-	-	-	-	-	-	21	-	11	
LRLQY6	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15			
							21		11	
MBTDZ3	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15			
							21		11	
MQ3638	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
MTVW7T	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15			
							21		11	
NL3D8F	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
NVR3ZP	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15			
							21		11	
PAR4CQ	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15			
							21		11	
PKRVLP	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
PRA2M3	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15			
							21		11	
QV3LWR	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15			
							21		11	
R7HWTA	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
2	15	10	11	20		14	15		25	
		11	12	19	18		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>										
R8G36N	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2		15	10	11	20	14	15			
							21			11
U3U4UC	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2		15	10	11	20	14	15			
							21			11
UVBYRQ	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2		15	10	11	20	14	15			
							21			11
VFFWNR	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2		15	10	11	20	14	15			
							21			11
WQB4EU	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2		15	10	11	20	14	15			
							21			11
X32F3R	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2		15	10	11	20	14	15			
							21			11
Y3G2CT	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2		15	10	11	20	14	15			
							21			11
Y3XFAH	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2		15	10	11	20	14	15			
							21			11
YAERNH	Yfiler™									
	ne	14	13,14	13	29	22	10	11	13	
2		15	10	11	20	ne	14	15	ne	ne
	ne	ne	ne	ne	ne	ne	21	ne		11
YAFLC4	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
2		15	10	11	20	14	15			25
		11	12	19	18		21	13		11
YF8WGM	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2		15	10	11	20	14	15			
							21			11
ZERTET	Yfiler™									
		14	13,14	13	29	22	10	11	13	
2		15	10	11	20	14	15			
							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 3 - YSTR Results</b>										
2W7Q3D	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3		15	10	11	20	14	15			
							21			11
4ALGVP	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3		15	10	11	20	14	15			
							21			11
4HXLQG	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3		15	10	11	20	14	15			
							21			11
4MTDYE	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3		15	10	11	20	14	15			
							21			11
6NGCPH	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3		15	10	11	20	14	15			
							21			11
73WVQA	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
3		15	10	11	20	14	15		25	
		11	12	19	18		21	13	11	
79M63T	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3		15	10	11	20	14	15			
							21			11
7BBRJM	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
3		15	10	11	20	14	15		25	
		11	12	19	18		21	13	11	
7KDYC2	Yfiler™									
		-	14	13,14	13	29	22	10	11	13
3		15	10	11	20	-	14	15	-	-
		-	-	-	-	-	-	21	-	11
7MKDQA	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3		15	10	11	20	14	15			
							21			11
7RAQRX	Yfiler™ Plus									
		38	14	13,14	13	29	22	10	11	13
3		15	10	11	20	30	14	15	10	25
		39	11		19	18	20	21		11
8AA4TW	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3		15	10	11	20	14	15			
							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 3 - YSTR Results</b>										
8FFN3M	Yfiler™ Plus									
	38,38	14	13,14	13	29	22	10	11	13	
3	15	10	11	20	30	14	15	10	25	
	39	11		19	18	20	21		11	
8NA67X	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15			
							21		11	
8UEJC9	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
98E33Y	Yfiler™									
	-	14	13,14	13	29	22	10	11	13	
3	15	10	11	20	-	14	15	-	-	
	-	-	-	-	-	-	21	-	11	
ACQ6QF	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15			
							21		11	
BEBG26	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
C863VU	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
CAATUA	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15			
							21		11	
CGWKBN	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15			
							21		11	
CVLNP	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
DDQEAM	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15			
							21		11	
DHKCXE	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15			
							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 3 - YSTR Results</b>										
EE3GT2	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
EFPA8G	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
F984BA	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15			
							21		11	
FYGG98	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15			
							21		11	
HGEH4P	Yfiler™									
	-	14	13,14	13	29	22	10	11	13	
3	15	10	11	20	-	14	15	-	-	
	-	-	-	-	-	-	21	-	11	
J2HN4V	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15			
							21		11	
J3P3FF	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15			
							21		11	
J4N9RV	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15			
							21		11	
J7PART	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
K77NMU	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
K8ZEZH	Yfiler™ Plus									
	38,38	14	13,14	13	29	22	10	11	13	
3	15	10	11	20	30	14	15	10	25	
	39	11		19	18	20	21		11	
KD3M83	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15			
							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 3 - YSTR Results</b>										
LNHX4K	Yfiler™									
	-	14	13,14	13	29	22	10	11	13	
3	15	10	11	20	-	14	15	-	-	
	-	-	-	-	-	-	21	-	11	
LRLQY6	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15			
							21		11	
MBTDZ3	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15			
							21		11	
MQ3638	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
MTVW7T	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15			
							21		11	
NL3D8F	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
NVR3ZP	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15			
							21		11	
PAR4CQ	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15			
							21		11	
PKRVLP	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15		25	
		11	12	19	18		21	13	11	
PRA2M3	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15			
							21		11	
QV3LWR	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15			
							21		11	
R7HWTA	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
3	15	10	11	20		14	15		25	
		11	12	19	18		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 3 - YSTR Results</b>										
R8G36N	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3		15	10	11	20	14	15			
							21		11	
U3U4UC	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3		15	10	11	20	14	15			
							21		11	
UVBYRQ	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3		15	10	11	20	14	15			
							21		11	
VFFWNR	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3		15	10	11	20	14	15			
							21		11	
X32F3R	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3		15	10	11	20	14	15			
							21		11	
Y3G2CT	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3		15	10	11	20	14	15			
							21		11	
Y3XFAH	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3		15	10	11	20	14	15			
							21		11	
YAERNH	Yfiler™									
	ne	14	13,14	13	29	22	10	11	13	
3		15	10	11	20	ne	14	15	ne	ne
	ne	ne	ne	ne	ne	ne	21	ne	11	
YAFLC4	PowerPlex® Y 23									
		14	13,14	13	29	22	10	11	13	
3		15	10	11	20	14	15		25	
		11	12	19	18		21	13	11	
YF8WGM	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3		15	10	11	20	14	15			
							21		11	
ZERTET	Yfiler™									
		14	13,14	13	29	22	10	11	13	
3		15	10	11	20	14	15			
							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 4 - YSTR Results</b>										
2W7Q3D	Yfiler™									
	14	11,15	13	29	24	10	13	13		
4	15	12	12	19	15	19	23	12		
4ALGVP	Yfiler™									
	14	11,15	13	29	24	10	13	13		
4	15	12	12	19	15	19	23	12		
4HXLQG	Yfiler™									
	14	11,15	13	29	24	10	13	13		
4	15	12	12	19	15	19	23	12		
4MTDYE	Yfiler™									
	14	11,15	13	29	24	10	13	13		
4	15	12	12	19	15	19	23	12		
6NGCPH	Yfiler™									
	14	11,15	13	29	24	10	13	13		
4	15	12	12	19	15	19	23	12		
73WVQA	PowerPlex® Y 23									
	14	11,15	13	29	24	10	13	13		
4	15	12	12	19	15	19	23	10	12	
	12	13	17	19						
79M63T	Yfiler™									
	14	11,15	13	29	24	10	13	13		
4	15	12	12	19	15	19	23	12		
7BBRJM	PowerPlex® Y 23									
	14	11,15	13	29	24	10	13	13		
4	15	12	12	19	15	19	23	10	12	
	12	13	17	19						
7KDYC2	Yfiler™									
	-	14	11,15	13	29	24	10	13	13	
4	15	12	12	19	-	15	19	-	-	
	-	-	-	-	-	-	23	-	12	
7MKDQA	Yfiler™									
	14	11,15	13	29	24	10	13	14		
4	15	12	12	19	15	19	23	12		
7RAQRX	Yfiler™ Plus									
	35,36	14	11,15	13	29	24	10	13	13	
4	15	12	12	19	29	15	19	11	21	
	38	12		17	19	23	23		12	
8AA4TW	Yfiler™									
	14	11,15	13	29	24	10	13	13		
4	15	12	12	19	15	19	23	12		



TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 4 - YSTR Results</b>										
8FFN3M	Yfiler™ Plus									
	35,36	14	11,15	13	29	24	10	13	13	
4	15	12	12	19	29	15	19	11	21	
	38	12		17	19	23	23		12	
8NA67X	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4	15	12	12	19		15	19			
							23		12	
8UEJC9	PowerPlex® Y 23									
		14	11,15	13	29	24	10	13	13	
4	15	12	12	19		15	19		21	
		12	13	17	19		23	10	12	
98E33Y	Yfiler™									
	-	14	11,15	13	29	24	10	13	13	
4	15	12	12	19	-	15	19	-	-	
	-	-	-	-	-	-	23	-	12	
ACQ6QF	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4	15	12	12	19		15	19			
							23		12	
BEBG26	PowerPlex® Y 23									
		14	11,15	13	29	24	10	13	13	
4	15	12	12	19		15	19		21	
		12	13	17	19		23	10	12	
C863VU	PowerPlex® Y 23									
		14	11,15	13	29	24	10	13	13	
4	15	12	12	19		15	19		21	
		12	13	17	19		23	10	12	
CAATUA	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4	15	12	12	19		15	19			
							23		12	
CGWKBN	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4	15	12	12	19		15	19			
							23		12	
CVLNP	PowerPlex® Y 23									
		14	11,15	13	29	24	10	13	13	
4	15	12	12	19		15	19		21	
		12	13	17	19		23	10	12	
DDQEAM	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4	15	12	12	19		15	19			
							23		12	
DHKCXE	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4	15	12	12	19		15	19			
							23		12	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 4 - YSTR Results</b>										
EE3GT2	PowerPlex® Y 23									
	14	11,15	13	29	24	10	13	13		
4	15	12	12	19	15	19	21			
	12	13	17	19	23	10	12			
EFPA8G	PowerPlex® Y 23									
	14	11,15	13	29	24	10	13	13		
4	15	12	12	19	15	19	21			
	12	13	17	19	23	10	12			
F984BA	Yfiler™									
	14	11,15	13	29	24	10	13	13		
4	15	12	12	19	15	19				
						23	12			
FYGG98	Yfiler™									
	14	11,15	13	29	24	10	13	13		
4	15	12	12	19	15	19				
						23	12			
HGEH4P	Yfiler™									
	-	14	11,15	13	29	24	10	13	13	
4	15	12	12	19	-	15	19	-	-	
	-	-	-	-	-	-	23	-	12	
J2HN4V	Yfiler™									
	14	11,15	13	29	24	10	13	13		
4	15	12	12	19	15	19				
						23	12			
J3P3FF	Yfiler™									
	14	11,15	13	29	24	10	13	13		
4	15	12	12	19	15	19				
						23	12			
J4N9RV	Yfiler™									
	14	11,15	13	29	24	10	13	13		
4	15	12	12	19	15	19				
						23	12			
J7PART	PowerPlex® Y 23									
	14	11,15	13	29	24	10	13	13		
4	15	12	12	19	15	19	21			
	12	13	17	19	23	10	12			
K77NMU	PowerPlex® Y 23									
	14	11,15	13	29	24	10	13	13		
4	15	12	12	19	15	19	21			
	12	13	17	19	23	10	12			
K8ZEZH	Yfiler™ Plus									
	35,36	14	11,15	13	29	24	10	13	13	
4	15	12	12	19	29	15	19	11	21	
	38	12	17	19	23	23	12			
KD3M83	Yfiler™									
	14	11,15	13	29	24	10	13	13		
4	15	12	12	19	15	19				
						23	12			

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 4 - YSTR Results</b>										
LNHX4K	Yfiler™									
	-	14	11,15	13	29	24	10	13	13	
4	15	12	12	19	-	15	19	-	-	
	-	-	-	-	-	-	23	-	12	
LRLQY6	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4	15	12	12	19		15	19			
							23		12	
MBTDZ3	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4	15	12	12	19		15	19			
							23		12	
MQ3638	PowerPlex® Y 23									
		14	11,15	13	29	24	10	13	13	
4	15	12	12	19		15	19		21	
		12	13	17	19		23	10	12	
MTVW7T	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4	15	12	12	19		15	19			
							23		12	
NL3D8F	PowerPlex® Y 23									
		14	11,15	13	29	24	10	13	13	
4	15	12	12	19		15	19		21	
		12	13	17	19		23	10	12	
NVR3ZP	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4	15	12	12	19		15	19			
							23		12	
PAR4CQ	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4	15	12	12	19		15	19			
							23		12	
PKRVLP	PowerPlex® Y 23									
		14	11,15	13	29	24	10	13	13	
4	15	12	12	19		15	19		21	
		12	13	17	19		23	10	12	
PRA2M3	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4	15	12	12	19		15	19			
							23		12	
QV3LWR	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4	15	12	12	19		15	19			
							23		12	
R7HWTA	PowerPlex® Y 23									
		14	11,15	13	29	24	10	13	13	
4	15	12	12	19		15	19		21	
		12	13	17	19		23	10	12	

TABLE 2

WebCode	Amplification Kit									
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
Item	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4	
<b>Item 4 - YSTR Results</b>										
R8G36N	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4		15	12	12	19	15	19			
							23			12
U3U4UC	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4		15	12	12	19	15	19			
							23			12
UVBYRQ	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4		15	12	12	19	15	19			
							23			12
VFFWNR	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4		15	12	12	19	15	19			
							23			12
X32F3R	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4		15	12	12	19	15	19			
							23			12
Y3G2CT	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4		15	12	12	19	15	19			
							23			12
Y3XFAH	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4		15	12	12	19	15	19			
							23			12
YAERNH	Yfiler™									
	ne	14	11,15	13	29	24	10	13	13	
4		15	12	12	19	ne	15	19	ne	ne
	ne	ne	ne	ne	ne	ne	23	ne	ne	12
YAFLC4	PowerPlex® Y 23									
		14	11,15	13	29	24	10	13	13	
4		15	12	12	19	15	19			21
		12	13	17	19		23	10		12
YF8WGM	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4		15	12	12	19	15	19			
							23			12
ZERTET	Yfiler™									
		14	11,15	13	29	24	10	13	13	
4		15	12	12	19	15	19			
							23			12

# Additional DNA Results

## TABLE 3

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

Locus	WebCode	Item 1	Item 2	Item 3	Item 3e	Item 3sp	Item 4	Item 4e	Item 4sp
-------	---------	--------	--------	--------	---------	----------	--------	---------	----------

No additional DNA results were reported.

# 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
29WHP3	No	Yes	Yes	No	8AA4TW	No	Yes	Yes	No
2FXW9H	No Interpretations Reported, DNA Analyzed for Database purposes only.				8FFN3M	No	Yes	Yes	No
2NR6L8	No	Yes	Yes	No	8NA67X	No	Yes	Yes	No
2VA9VU	No	Yes	Yes	No	8UEJC9	No	Yes	Yes	No
2W7Q3D	No	Yes	Yes	No	92DQ83	No	Yes	Yes	No
38ZKJR	No	Yes	Yes	No	974XRV	No	Yes	Yes	No
3HZUJB	No	Yes	Yes	No	978L4V	No	Yes	Yes	No
3R64QZ	No	Yes	Yes	No	98343B	No Interpretations Reported, DNA Analyzed for Database purposes only.			
3TXU2U	No	Yes	Yes	No	98E33Y	No	Yes	Yes	No
3UAVL8	No	Yes	Yes	No	ACQ6QF	No	Yes	Yes	No
48F7TU	No	Yes	Yes	No	B9MRD2	No	Yes	Yes	No
4ALGVP	No	Yes	Yes	No	BEBG26	No	Yes	Yes	No
4HXLQG	No	Yes	Yes	No	BYYX8K	No	Yes	Yes	No
4MTDYE	No	Yes	Yes	No	C863VU	No	Yes	Yes	No
4TEKCP	No	Yes	Yes	No	CAATUA	No	Yes	Yes	No
6NGCPH	No	Yes	Yes	No	CABPAK	No Interp	No Interp	No Interp	No Interp
73WVQA	No	Yes	Yes	No	CF2ZKH	No	Yes	Yes	No
79M63T	No	Yes	Yes	No	CGWKBN	No	Yes	Yes	No
7BBRJM	No	Yes	Yes	No	CKYCQF	No	Yes	Yes	No
7KDYC2	No	Yes	Yes	No	CWLNP	No	Yes	Yes	No
7MKDQA	No	Yes	Yes	No	DDQEAM	No	Yes	Yes	No
7RAQRX	No	Yes	Yes	No	DHKCXE	No Interpretations Reported, DNA Analyzed for Database purposes only.			

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
EE3GT2	No	Yes	Yes	No	LNHX4K	No	Yes	Yes	No
EFPA8G	No	Yes	Yes	No	LRLQY6	No Interpretations Reported, DNA Analyzed for Database purposes only.			
F984BA	No	Yes	Yes	No	MBTDZ3	No	Yes	Yes	No
FEWH6X	No	Yes	Yes	No	MQ3638	No	Yes	Yes	No
FHXNLN	No	Yes	Yes	No	MTVW7T	No	Yes	Yes	No
FYGG98	No	Yes	Yes	No	MZULMW	No Interpretations Reported, DNA Analyzed for Database purposes only.			
HDCLH2	No	Yes	Yes	No	NL3D8F	No	Yes	Yes	No
HGEH4P	No	Yes	Yes	No	NVR3ZP	No	Yes	Yes	No
HGEKVE	No Interpretations Reported, DNA Analyzed for Database purposes only.				PAR4CQ	No	Yes	Yes	No
HM4ZL8	No Interpretations Reported, DNA Analyzed for Database purposes only.				PENN98	No Interpretations Reported, DNA Analyzed for Database purposes only.			
J2HN4V	No	Yes	Yes	No	PKRVLP	No	Yes	Yes	No
J2UGNA	No Interpretations Reported, DNA Analyzed for Database purposes only.				PRA2M3	No Interpretations Reported, DNA Analyzed for Database purposes only.			
J3P3FF	No	Yes	Yes	No	QP7GJ3	No	Yes	Yes	No
J4N9RV	No	Yes	Yes	No	QV3LWR	No	Yes	Yes	No
J7PART	No	Yes	Yes	No	R2PRZ6	No Interpretations Reported, DNA Analyzed for Database purposes only.			
JAPJT8	No Interpretations Reported, DNA Analyzed for Database purposes only.				R7HWTA	No	Yes	Yes	No
JEJJ6G	No	Yes	Yes	No	R8G36N	No	Yes	Yes	No
K36MUJ	No Interpretations Reported, DNA Analyzed for Database purposes only.				RF9E8H	No	Yes	Yes	No
K77NMU	No	Yes	Yes	No	RTXCB2	No	Yes	Yes	No
K8ZEZH	No	Yes	Yes	No	RZWR7Z	No	Yes	Yes	No
KD3M83	No	Yes	Yes	No	T4RRXG	No	Yes	Yes	No
KUCAXK	No	Yes	Yes	No	TDXYDG	No	Yes	Yes	No
LMMCJG	No	Yes	Yes	No	U3U4UC	No	Yes	Yes	No

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
UQ2GVH	No	Yes	Yes	No					
UVBYRQ	No	Yes	Yes	No					
VFFWNR	No	Yes	Yes	No					
W38A78	No	Yes	Yes	No					
WQB4EU	No Interpretations Reported, DNA Analyzed for Database purposes only.								
X32F3R	No	Yes	Yes	No					
XEXNLU	No Interpretations Reported, DNA Analyzed for Database purposes only.								
XR6A9T	No Interpretations Reported, DNA Analyzed for Database purposes only.								
Y3G2CT	No Interpretations Reported, DNA Analyzed for Database purposes only.								
Y3XFAH	No	Yes	Yes	No					
YAERNH	No	Yes	Yes	No					
YAFLC4	No	Yes	Yes	No					
YF8WGM	No	Yes	Yes	No					
ZERTET	No	Yes	Yes	No					
ZRW6UT	No	Yes	Yes	No					

<b>DNA Interpretation</b>					
<b>Response Summary</b>	<b>Participants reporting DNA results: 105</b>				
<i>Based on results obtained from DNA analysis, could the Victim (Item 1) and/or the Suspect (Item 2) be a contributor to the questioned stains (Items 3 &amp; 4)?</i>					
		Victim (Item 1)		Suspect (Item 2)	
		<u>Item 3</u>	<u>Item 4</u>	<u>Item 3</u>	<u>Item 4</u>
Yes		<b>0</b>	<b>87</b>	<b>87</b>	<b>0</b>
No		<b>87</b>	<b>0</b>	<b>0</b>	<b>87</b>
Inc		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
No Interpretation		<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
No Response		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Participants analyzing DNA for database purposes only: 17



# Additional Comments

## TABLE 5

WebCode	Additional Comments
7KDYC2	Item 1 and Item 2 were extracted using in-situ method and amplified using AmpFISTR Identifiler Direct kit. Item 3 and Item 4 were extracted using DNA IQ Extraction Kit via Tecan Freedom Evo 150, quantified using Quantifiler Human DNA Quantification Kit on QuantStudio 5 System, then amplified using AmpFISTR Identifiler Plus Kit. The electrophoresis for Item 1, Item 2, Item 3 and Item 4 carried out on Genetic Analyzer 3500xl. Item 1, Item 2, Item 3 and Item 4 were further amplified using Yfiler PCR Kit and the electrophoresis carried out on Genetic Analyzer 3130xl. Reagent Blank, Positive Control and Negative Control carried out along with the analysis and gave the expected results.
7RAQRX	The genetic profile for item (1) refers to single male (victim). The genetic profile for item (2) refers to single male (Suspect). Item (3) which was a questioned stain on the victim's shirt tested positive blood refers to the suspect. Item (4) which was a questioned stain on the suspect's shirt tested positive blood refers to the victim
8NA67X	1) Insitu extraction method was used to extract DNA from Item 1 and Item 2. 2) Organic extraction method was used to extract DNA from Item 3 and Item 4. 3) DNA quantitation was carried out using 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 dan Direct PCR Amplification Kit. 5) Amplification of Y-STR (Short Tandem Repeat) Genetic Loci was carried out using the AmpFISTR Y-Filer 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 and all gave the intended results.
98E33Y	1. Item 1 and 2 were extracted using the in-situ extraction method. 2. Item 3 and 4 were extracted using the Promega DNA IQ on Tecan Freedom EVO 150. 3. Item 3 and 4 were quantitated using Quantifiler Human DNA Quantitation Kit on QuantStudio 5. 5. Amplifications were done using the AmpFISTR Identifiler Direct kit for Item 1 and 2, AmpFISTR Identifiler Plus kit for Item 3 and 4, and AmpFISTR Y- Filer kit on Item 1 to 4. 6. Electrophoresis was carried out by Genetic Analyzer 3500xL and 3130xL. 7. Reagent Blank, Positive Control and Negative Control were carried out along with the analysis and all gave the intended results.
CABPAK	The analyst being tested is not competent in the interpretation of unknkown samples at this time.
HGEH4P	1. Item 1 and Item 2 were extracted using in-situ extraction method. 2. Item 3 and Item 4 were extracted through solid phase extraction method using DNAIQ extraction kit on Tecan Freedom Evo 150. 3. Quantification was carried out on Item 3 and Item 4 using Quantifiler Human DNA Quantification kit on Quant Studio 5. 4. Item 1 and Item 2 were amplified using AmpFISTR Identifiler Direct kit. 5. Item 3 and Item 4 were amplified using AmpFISTR Identifiler Plus kit. 6. Y-STR was carried out on Item 1, Item 2, Item 3 and Item 4 using the AmpFISTR Y-Filer Amplification kit. 7. Electrophoresis of Item 1 and Item 2 were carried out using Genetic Analyzer 3500xL. 8. Electrophoresis of Item 3 and Item 4 were carried out using Genetic Analyzer 3130xL. 9. Electrophoresis of Y-STR on Item 1, Item 2, Item 3 and Item 4 were carried out using Genetic Analyzer 3130xL. 10. Reagent Blank, Positive Control and Negative Control were incorporated throughout the analysis and gave intended result.
J2UGNA	Interpretation not reported. Test participant does not perform interpretations.
JEJ6G	Victim (Item 1) vs. DNA results from Item 3 & Item 4 : Many alleles of victim's genetic profile (Item 1) are discordant with the profile obtained with the genetic profile collected from sample Item 3 (victim's shirt). The DNA evidence demonstrates that victim's DNA is excluded as being at the origin of the genetic profiles found on sample Item 3. All alleles of victim's genetic profile (Item 1) are identical with alleles obtained with the genetic profile collected from sample Item 4 (suspect's shirt). LR > 1E+9 (Caucasian population data). The DNA evidence is more than 1 billion times more likely if the victim is the source of the genetic profile collected from sample Item 4 than if some other person unrelated with the victim is the source of the genetic profile found on sample Item 4. Suspect (Item 2) vs. DNA results from Item 3 & Item 4 : Many alleles of suspect's genetic profile (Item 2) are discordant with the profile obtained with the genetic profile collected from sample Item 4 (suspect's shirt). The DNA evidence demonstrates that suspect's DNA is excluded as being at the origin of the genetic profils found on sample Item 4. All alleles of suspect's genetic profile (Item 2) are identical with alleles obtained with the genetic profile collected from sample

TABLE 5

WebCode	Additional Comments
	Item 3 (victim's shirt). LR > 1E+9 (Caucasian population data). The DNA evidence is more than 1 billion times more likely if the suspect is the source of the genetic profile collected from sample Item 3 than if some other person unrelated with the suspect is the source of the genetic profile found on sample Item 3.
LNHX4K	1) Item 1 and Item 2 were extracted using the in-situ extraction method. 2) Item 3 and Item 4 were extracted using the DNA IQ kit on Tecan Freedom Evo 150 and quantification was carried out using the Quantifiler Human DNA Quantification kit on QuantStudio 5. 3) Item 1 and Item 2 were amplified using Identifiler Direct STR kit and electrophoresis was carried out using 3130xl Genetic Analyzer. 4) Item 3 and Item 4 were amplified using Identifiler Plus STR kit and electrophoresis was carried out using 3130xl Genetic Analyzer. 5) Y-STR was carried out for Item 1, Item 2, Item 3 and Item 4 using the AmpFLSTR Y-Filer kit and electrophoresis was carried out using 3130xl Genetic Analyzer. 6) Reagent Blank, Positive Control and Negative Control were also incorporated throughout the analysis and gave correct designated result.
U3U4UC	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 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-Filer 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.
YAERNH	ne= not examined

-End of Report-  
(Appendix may follow)

# Appendix: Data Sheet

Collaborative Testing Services ~ Forensic Testing Program

## Test No. 18-5803: DNA-Blood

DATA MUST BE RECEIVED BY June 18, 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 murder of a male victim. The victim's body was discovered in a public park in the early morning by a police officer. After reviewing the surveillance footage of the previous night from a nearby restaurant, a potential suspect was identified walking away from where the body was found and was soon apprehended. Investigators submitted items of evidence for testing. Screening has been completed with the following results: both the shirt from the victim (Item 3) and the shirt from the suspect (Item 4) tested positive for blood only. The screening lab is submitting these samples (Items 3 and 4) along with known blood samples from the victim (Item 1) and the suspect (Item 2).

#### Items Submitted (Sample Pack S3):

- Item 1: Known blood from the male victim
- Item 2: Known blood from the male suspect
- Item 3: Questioned blood stain from the victim's shirt (white)
- Item 4: Questioned blood stain from the suspect's shirt (tan)

**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 (i.e. X,X or X).

**\*\*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.

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

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

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

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

Please return all pages of this data sheet.

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

**STR Amplification Kit(s) Used:** Please check 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="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
2	<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
2	<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
2	<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	
2	<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
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ITEM</b>	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ITEM</b>	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please return all pages of this data sheet.

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

**STR Amplification Kit(s) Used:** 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
<b>3</b>	<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
<b>3</b>	<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
<b>3</b>	<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
<b>3</b>	<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	
<b>3</b>	<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
<b>3</b>	<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
<b>3</b>	<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
<b>3</b>	<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"/>

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
<b>4</b>	<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
<b>4</b>	<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
<b>4</b>	<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
<b>4</b>	<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	
<b>4</b>	<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
<b>4</b>	<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
<b>4</b>	<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
<b>4</b>	<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 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)?

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

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**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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**Return Instructions:** Data must be received via online data entry, fax (please include a cover sheet), or mail by **June 18, 2018** to be included in the report. Emailed data sheets are not accepted.

ONLINE DATA ENTRY: [www.cts-portal.com](http://www.cts-portal.com)  
 FAX: +1-571-434-1937  
 MAIL: Collaborative Testing Services, Inc.  
 P.O. Box 650820  
 Sterling, VA 20165-0820 USA

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

**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. **18-5803: DNA-Blood**

This release page must be completed and received by **June 18, 2018** to have this participant's submitted data included in the reports forwarded to the respective Accreditation Bodies.

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

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

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

(Include ASCLD/LAB Certificate here)

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

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

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

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

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

**Accreditation Release**

**Return Instructions**

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

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

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

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