



## **DNA-Blood Test No. 16-583 Summary Report**

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This proficiency test was sent to 143 participants. Each participant received a sample pack consisting of two known bloodstains and two questioned stains which they were requested to analyze using their existing protocols. Data were returned from 125 participants (87% response rate) 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, red and white checkered material (Item 3) and one on clean, cream terrycloth material (Item 4). Participants were requested to analyze these items using their existing protocols.

**SAMPLE PREPARATION:** All stains were prepared from human whole blood which was either drawn into citric acid preservative bloodbank bags or EDTA tubes. Item 1 (75  $\mu$ l) and Item 3 (50  $\mu$ l) were created using blood collected from the same female; Item 2 (75  $\mu$ l) and Item 4 (50  $\mu$ l) were created using blood collected from the same male donor. 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 18th, 2016 following receipt of predistribution results.

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

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

### Amelogenin and STR Results

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

<b>Item</b>	<b>D1S1656</b>	<b>D2S1338</b>	<b>D2S441</b>	<b>D3S1358</b>	<b>D5S818</b>	<b>D7S820</b>
	<b>D8S1179</b>	<b>D10S1248</b>	<b>D12S391</b>	<b>D13S317</b>	<b>D16S539</b>	<b>D18S51</b>
	<b>D19S433</b>	<b>D21S11</b>	<b>D22S1045</b>	<b>Amelogenin</b>	<b>CSF1PO</b>	<b>FGA</b>
	<b>Penta D</b>	<b>Penta E</b>	<b>SE33</b>	<b>TH01</b>	<b>TPOX</b>	<b>vWA</b>
1	16,3,18,3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
	5,11	5,7	29.2,29.2	6,8	8,10	16,16
2	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
	9,14	7,14	26.2,27.2	9,9.3	8,11	14,19
3	16,3,18,3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
	*	*	29.2,29.2	6,8	8,10	16,16
4	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
	*	*	26.2,27.2	9,9.3	8,11	14,19

### YSTR Results

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

<b>Item</b>	<b>DYS19</b>	<b>DYS385</b>	<b>DYS389-I</b>	<b>DYS389-II</b>	<b>DYS390</b>	<b>DYS391</b>	<b>DYS392</b>	<b>DYS393</b>
	<b>DYS437</b>	<b>DYS438</b>	<b>DYS439</b>	<b>DYS448</b>	<b>DYS456</b>	<b>DYS458</b>	<b>DYS481</b>	<b>DYS533</b>
	<b>DYS549</b>	<b>DYS570</b>	<b>DYS576</b>	<b>DYS635</b>	<b>DYS643</b>	<b>Y GATA H4</b>	<b>Y Indel</b>	
2	14	13,15	13	29	22	10	11	13
	16	10	12	20	14	15	25	11
	*	19	16	21	*	11	2	
4	14	13,15	13	29	22	10	11	13
	16	10	12	20	14	15	25	11
	*	19	16	21	*	11	2	

\* Results were not received from a minimum of 10 participants for the STR and 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 where screening has already been completed. Participants were supplied with two "known" bloodstains (Items 1 and 2) and two "questioned" stains (Items 3 and 4). Items 1 and 3 were made from blood collected from the same female donor, and Items 2 and 4 were made from blood collected from the same male donor. (See Manufacturer's Information for preparation details.)

Of the 125 responding, 99 participants reported DNA interpretations. All 99 participants included the victim (Item 1) as a possible contributor to the Item 3 sample and excluded the victim (Item 1) as a possible contributor to the Item 4 sample. All 99 participants excluded the suspect (Item 2) as a possible contributor to the Item 3 sample and included the suspect (Item 2) as a possible contributor to the Item 4 sample.

Two participants reported allelic results that differed from the consensus/predistribution results. Of these, one was missing alleles at one locus, and one reported additional alleles at one locus.

**STR Results**

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 1 - STR Results

27NZ8V	<i>PowerPlex® 18D</i>						
	1		19,23		15,16	11,12	10,12
		14,14			12,12	10,11	15,19
		11,13	28,30		X,X	7,10	19,23
		5,11	5,7		6,8	8,10	16,16
2ZH4NV	<i>PowerPlex® 18D</i>						
	1		19,23		15,16	11,12	10,12
		14,14			12,12	10,11	15,19
		11,13	28,30		X,X	7,10	19,23
		5,11	5,7		6,8	8,10	16,16
3F64RZ	<i>Identifiler® Plus</i>						
	1		19,23		15,16	11,12	10,12
		14,14			12,12	10,11	15,19
		11,13	28,30		X,X	7,10	19,23
					6,8	8,10	16,16
3MRUEV	<i>Identifiler® Plus</i>						
	1	-	19,23	-	15,16	11,12	10,12
		14,14	-	-	12,12	10,11	15,19
		11,13	28,30	-	X,X	7,10	19,23
		-	-	-	6,8	8,10	16,16
3QLNCW	<i>Identifiler® Plus</i>						
	1		19,23		15,16	11,12	10,12
		14,14			12,12	10,11	15,19
		11,13	28,30		X,X	7,10	19,23
					6,8	8,10	16,16
3RFEHB	<i>Identifiler® Plus</i>						
	1		19,23		15,16	11,12	10,12
		14			12	10,11	15,19
		11,13	28,30		X	7,10	19,23
					6,8	8,10	16
3WDXLV	<i>PowerPlex® 18D</i>						
	1		19,23		15,16	11,12	10,12
		14,14			12,12	10,11	15,19
		11,13	28,30		X,X	7,10	19,23
		5,11	5,7		6,8	8,10	16,16
4DVD3W	<i>Identifiler® Plus</i>						
	1		19,23		15,16	11,12	10,12
		14,14			12,12	10,11	15,19
		11,13	28,30		X,X	7,10	19,23
					6,8	8,10	16,16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 1 - STR Results

4HNF4B	<i>Identifiler®</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
4JKX7C	<i>Identifiler®</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
4K VX37	<i>GlobalFiler Express</i>					
1	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
4WMLZR	<i>GlobalFiler Express</i>					
1	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
6ATYRC	<i>GlobalFiler</i>					
1	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
6KAJC9	<i>GlobalFiler</i>					
1	16.3,18.3	19,23	11	15,16	11,12	10,12
	14	13,14	20,21	12	10,11	15,19
	11,13	28,30	15	X	7,10	19,23
			29.2	6,8	8,10	16
6WR4XQ	<i>GlobalFiler Express</i>					
1	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
6ZNRCC	<i>Identifiler®</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
7BJKX9	<i>Identifiler®</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 1 - STR Results

7BYGQ8	<i>Globalfiler</i>					
1	16.3,18.3	19,23	11	15,16	11,12	10,12
	14	13,14	20,21	12	10,11	15,19
	11,13	28,30	15	X	7,10	19,23
			29.2	6,8	8,10	16
7MVMLQ	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
7NPDR7	<i>PowerPlex® Fast ESI 16 Promega</i>					
1	16.3,18.3	19,23	11,11	15,16		
	14,14	13,14	20,21		10,11	15,19
	11,13	28,30	15,15	X,X		19,23
				6,8		16,16
7QVWQ2	<i>Identifiler® Direct, PowerPlex® ESX17</i>					
1	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
8342GU	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
8BX4H6	<i>Identifiler®</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
8EXEE6	<i>Identifiler®</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
8FTXF7	<i>PowerPlex® Fusion</i>					
1	16.3,18.3	19,23	11	15,16	11,12	10,12
	14	13,14	20,21	12	10,11	15,19
	11,13	28,30	15	X	7,10	19,23
	5,11	5,7		6,8	8,10	16
8GZFE3	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14			12	10,11	15,19
	11,13	28,30		X	7,10	19,23
				6,8	8,10	16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 1 - STR Results

8PFW7C	PowerPlex® 21					
1	16.3,18.3	19,23	-	15,16	11,12	10,12
	14,14	-	20,21	12,12	10,11	15,19
	11,13	28,30	-	X,X	7,10	19,23
	5,11	5,7	-	6,8	8,10	16,16
962Y37	Identifiler® Plus					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
9NKVKK	NGM SElect					
1	16.3,18.3	19,23	11,11	15,16		
	14,14	13,14	20,21		10,11	15,19
	11,13	28,30	15,15	X,X		19,23
			29.2,29.2	6,8		16,16
AC3BZN	Identifiler® Plus					
1		19,23		15,16	11,12	10,12
	14			12	10,11	15,19
	11,13	28,30		X	7,10	19,23
				6,8	8,10	16
AFH6EZ	GlobalFiler Express					
1	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
B3CCMN	Identifiler® Plus					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
B48VNP	Identifiler® Plus					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
B9YYGU	Identifiler®					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
BNQWJN	Identifiler® Plus					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16



TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 1 - STR Results

C7Q7ZZ	<i>Identifiler® ID Direct</i>					
1		19,23		15,16	11,12	10,12
	14			12	10,11	15,19
	11,13	28,30		X	7,10	19,23
				6,8	8,10	16
CFVG8P	<i>COfiler® and Profiler Plus®</i>					
1				15,16	11,12	10,12
	14,14			12,12		15,19
		28,30		X,X		19,23
						16,16
CGN8D6	<i>PowerPlex® Fusion</i>					
1	16.3,18.3	19,23	11	15,16	11,12	10,12
	14	13,14	20,21	12	10,11	15,19
	11,13	28,30	15	X	7,10	19,23
	5,11	5,7		6,8	8,10	16
CNPJA2	<i>Globalfiler</i>					
1	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
CTFWBP	<i>Identifiler®</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
D8GR8W	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
D8WBQU	<i>Identifiler® Direct, PowerPlex® ESX17</i>					
1	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
D9D9JT	<i>Identifiler® Direct</i>					
1	-	19,23	-	15,16	11,12	10,12
	14	-	-	12	10,11	15,19
	11,13	28,30	-	X,X	7,10	19,23
	-	-	-	6,8	8,10	16
D9TQ26	<i>PowerPlex® 16 HS</i>					
1				15,16	11,12	10,12
	14,14			12,12	10,11	15,19
		28,30		X,X	7,10	19,23
	5,11	5,7		6,8	8,10	16,16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 1 - STR Results

DLE4FZ	<i>Identifiler® Direct</i>					
1		19,23		15,16	11,12	10,12
	14			12	10,11	15,19
	11,13	28,30		X	7,10	19,23
				6,8	8,10	16
DR6DPY	<i>Identifiler®</i>					
1		19,23		15,16	11,12	10,12
	14			12	10,11	15,19
	11,13	28,30		X	7,10	19,23
				6,8	8,10	16
DY29PH	<i>GlobalFiler Express</i>					
1	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
EAHCAM	<i>Globalfiler</i>					
1	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
EH9XDZ	<i>Identifiler®</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
EQ6TDJ	<i>PowerPlex® Fusion 6C System</i>					
1	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
	5,11	5,7	29.2,29.2	6,8	8,10	16,16
F3Z7BU	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14			12	10,11	15,19
	11,13	28,30		X	7,10	19,23
				6,8	8,10	16
FDHN42	<i>Identifiler®</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
FXZVEU	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14			12	10,11	15,19
	11,13	28,30		X	7,10	19,23
				6,8	8,10	16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 1 - STR Results

FYFEYR	<i>Identifiler®</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
H3PE9N	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
HW2QEJ	<i>Profiler Plus®</i>					
1				15,16	11,12	10,12
	14,14			12,12		15,19
		28,30		X,X		19,23
						16,16
J6BFRG	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
JCTNFE	<i>PowerPlex® 18D</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
	5,11	5,7		6,8	8,10	16,16
JDMELT	<i>Identifiler®</i>					
1		19,23		15,16	11,12	10,12
	14			12	10,11	15,19
	11,13	28,30		X	7,10	19,23
				6,8	8,10	16
JQD4JD	<i>PowerPlex® 18D</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
	5,11	5,7		6,8	8,10	16,16
JTTXP	<i>PowerPlex® Fusion</i>					
1	16.3,18.3	19,23	11	15,16	11,12	10,12
	14	13,14	20,21	12	10,11	15,19
	11,13	28,30	15	X	7,10	19,23
	5,11	5,7		6,8	8,10	16
K6QYAU	<i>GlobalFiler</i>					
1	16.3,18.3	19,23	11	15,16	11,12	10,12
	14	13,14	20,21	12	10,11	15,19
	11,13	28,30	15	X	7,10	19,23
			29.2	6,8	8,10	16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 1 - STR Results

KNY29Y	<i>Identifiler® Plus</i>	1	19,23		15,16	11,12	10,12	
			14,14		12,12	10,11	15,19	
			11,13	28,30		X,X	7,10	19,23
					6,8	8,10	16,16	
KU6U3U	<i>Identifiler®</i>	1	19,23		15,16	11,12	10,12	
			14,14		12,12	10,11	15,19	
			11,13	28,30		X,X	7,10	19,23
					6,8	8,10	16,16	
KVEYFH	<i>Identifiler® Plus</i>	1	19,23		15,16	11,12	10,12	
			14,14		12,12	10,11	15,19	
			11,13	28,30		X,X	7,10	19,23
					6,8	8,10	16,16	
LAFVCP	<i>Globalfiler</i>	1	16.3,18.3	19,23	11	15,16	11,12	10,12
			14	13,14	20,21	12	10,11	15,19
			11,13	28,30	15	X	7,10	19,23
					29.2	6,8	8,10	16
LGDMKJ	<i>Identifiler® Direct</i>	1	-	19,23	-	15,16	11,12	10,12
			14	-	-	12	10,11	15,19
			11,13	28,30	-	X,X	7,10	19,23
			-	-	-	6,8	8,10	16
LUJJ4L	<i>Identifiler® Direct, PowerPlex® ESX 17</i>	1	16.3,18.3	19,23	11,11	15,16	11,12	10,12
			14,14	13,14	20,21	12,12	10,11	15,19
			11,13	28,30	15,15	X,X	7,10	19,23
					29.2,29.2	6,8	8,10	16,16
MCDYGG	<i>Identifiler®</i>	1	19,23		15,16	11,12	10,12	
			14,14		12,12	10,11	15,19	
			11,13	28,30		X,X	7,10	19,23
					6,8	8,10	16,16	
MLNZ3H	<i>PowerPlex® Fusion</i>	1	16.3,18.3	19,23	11	15,16	11,12	10,12
			14	13,14	20,21	12	10,11	15,19
			11,13	28,30	15	X	7,10	19,23
			5,11	5,7		6,8	8,10	16
MWK47C	<i>Identifiler® Plus</i>	1	19,23		15,16	11,12	10,12	
			14,14		12,12	10,11	15,19	
			11,13	28,30		X,X	7,10	19,23
					6,8	8,10	16,16	

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 1 - STR Results

MYPWXP	<i>Identifiler®</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
N3RU9H	<i>Identifiler® Direct</i>					
1	-	19,23	-	15,16	11,12	10,12
	14	-	-	12	10,11	15,19
	11,13	28,30	-	X,X	7,10	19,23
	-	-	-	6,8	8,10	16
NHJRBD	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
NLH47D	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
NP2X8J	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
PAMCYE	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
PDMMUD	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
PQTFLLQ	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
PTYYM8	<i>PowerPlex® 18D</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
	5,11	5,7		6,8	8,10	16,16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 1 - STR Results

PZVXXT	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
QDFVF3	<i>2 home made multiplexes</i>					
1	16.3,18.3		11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
		28,30	15,15	X,X		19,23
			29.2,29.2	6,8	8,10	16,16
QJ4HB9	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
QKW9GM	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14			12	10,11	15,19
	11,13	28,30		X	7,10	19,23
				6,8	8,10	16
R3B82B	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
R4PEMR	<i>PowerPlex® 16 HS</i>					
1				15,16	11,12	10,12
	14,14			12,12	10,11	15,19
		28,30		X,X	7,10	19,23
	5,11	5,7		6,8	8,10	16,16
R7VWLN	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
RC2T6N	<i>Identifiler®</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
RRD8N7	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 1 - STR Results

TDBVT8	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
TH8LYJ	<i>Identifiler® Direct</i>					
1		19,23		15,16	11,12	10,12
	14			12	10,11	15,19
	11,13	28,30		X	7,10	19,23
				6,8	8,10	16
THL9B7	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
TUERPC	<i>GlobalFiler</i>					
1	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
	-	-	29.2,29.2	6,8	8,10	16,16
U4KWE8	<i>COfiler® and Profiler Plus®</i>					
1				15,16	11,12	10,12
	14,14			12,12		15,19
		28,30		X,X		19,23
						16,16
U9B7P7	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
UAPRY8	<i>COfiler® and Profiler Plus®</i>					
1				15,16	11,12	10,12
	14,14			12,12		15,19
		28,30		X,X		19,23
						16,16
UEGYJ2	<i>GlobalFiler Express</i>					
1	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
UR3CVB	<i>Identifiler® Direct</i>					
1		19,23		15,16	11,12	10,12
	14			12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 1 - STR Results

UTHCEZ	<i>GlobalFiler Express</i>					
1	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
UVM47D	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
UWHM9E	<i>Identifiler®</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
VKMOV32	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
VMQNVE	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14			12	10,11	15,19
	11,13	28,30		X	7,10	19,23
				6,8	8,10	16
VPTL78	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
VUNF49	<i>Identifiler®</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
VH79M	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
VZEQD7	<i>Profiler Plus®</i>					
1				15,16	11,12	10,12
	14,14			12,12		15,19
		28,30		X,X		19,23
						16,16



TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 1 - STR Results

WCLZFM	PowerPlex® 21	1	16.3,18.3	19,23		15,16	11,12	10,12
			14,14		20,21	12,12	10,11	15,19
			11,13	28,30		X,X	7,10	19,23
			5,11	5,7		6,8	8,10	16,16
WW9RFJ	Identifiler®	1		19,23		15,16	11,12	10,12
			14,14			12,12	10,11	15,19
			11,13	28,30		X,X	7,10	19,23
						6,8	8,10	16,16
XF2QJW	NGM SElect	1	16.3,18.3	19,23	11,11	15,16		
			14,14	13,14	20,21		10,11	15,19
			11,13	28,30	15,15	X,X		19,23
					29.2,29.2	6,8		16,16
XNXPUH	Identifiler®	1		19,23		15,16	11,12	10,12
			14,14			12,12	10,11	15,19
			11,13	28,30		X,X	7,10	19,23
						6,8	8,10	16,16
XYTVP2	Identifiler® Plus	1		19,23		15,16	11,12	10,12
			14,14			12,12	10,11	15,19
			11,13	28,30		X,X	7,10	19,23
						6,8	8,10	16,16
Y9YZDC	GlobalFiler Express	1	16.3,18.3	19,23	11,11	15,16	11,12	10,12
			14,14	13,14	20,21	12,12	10,11	15,19
			11,13	28,30	15,15	X,X	7,10	19,23
					29.2,29.2	6,8	8,10	16,16
YE6U88	Identifiler® Direct, PowerPlex® ESX17	1	16.3,18.3	19,23	11,11	15,16	11,12	10,12
			14,14	13,14	20,21	12,12	10,11	15,19
			11,13	28,30	15,15	X,X	7,10	19,23
					29.2,29.2	6,8	8,10	16,16
YF2AJ6	Identifiler® Plus	1		19,23		15,16	11,12	10,12
			14,14			12,12	10,11	15,19
			11,13	28,30		X,X	7,10	19,23
						6,8	8,10	16,16
YRQ7JG	Identifiler®	1		19,23		15,16	11,12	10,12
			14,14			12,12	10,11	15,19
			11,13	28,30		X,X	7,10	19,23
						6,8	8,10	16,16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 1 - STR Results

YZ9FAY	<i>GlobalFiler Express</i>					
1	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
Z2DMPW	<i>GlobalFiler</i>					
1	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
Z76U97	<i>Identifiler® Direct</i>					
1	-	19,23	-	15,16	11,12	10,12
	14	-	-	12	10,11	15,19
	11,13	28,30	-	X,X	7,10	19,23
	-	-	-	6,8	8,10	16
Z79DXU	<i>PowerPlex® ES17, FUSION</i>					
1	16,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
	5,11	5,7	29.2,29.2	6,8	8,10	16,16
ZEJFJU	<i>AmpFISTR NGM SElect</i>					
1	16.3,18.3	19,23	11,11	15,16		
	14,14	13,14	20,21		10,11	15,19
	11,13	28,30	15,15	X,X		19,23
			29.2,29.2	6,8		16,16
ZFEYKW	<i>GlobalFiler Express</i>					
1	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
ZQCYXZ	<i>Identifiler® Plus</i>					
1		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
ZUXNHD	<i>Identifiler®</i>					
1	N/A	19,23	N/A	15,16	11,12	10,12
	14,14	N/A	N/A	12,12	10,11	15,19
	11,13	28,30	N/A	X,X	7,10	19,23
	N/A	N/A	N/A	6,8	8,10	16,16
ZY6EKJ	<i>GlobalFiler</i>					
1	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 2 - STR Results

27NZ8V	PowerPlex® 18D					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
	9,14	7,14		9,9.3	8,11	14,19
2ZH4NV	PowerPlex® 18D					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
	9,14	7,14		9,9.3	8,11	14,19
3F64RZ	Identifiler® Plus					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
3MRUEV	Identifiler® Plus					
2	-	24,24	-	16,17	11,11	10,10
	14,15	-	-	14,14	10,10	17,17
	14,14	28,29	-	X,Y	10,11	19,21
	-	-	-	9,9.3	8,11	14,19
3QLNCW	Identifiler® Plus					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
3RFEHB	Identifiler® Plus					
2		24		16,17	11	10
	14,15			14	10	17
	14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
3WDXLV	PowerPlex® 18D					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
	9,14	7,14		9,9.3	8,11	14,19
4DVD3W	Identifiler® Plus					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
4HNF4B	Identifiler®					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 2 - STR Results

4JKX7C	Identifiler®					
2		24,24		16,17	11,11	10,10
		14,15		14,14	10,10	17,17
		14,14	28,29	X,Y	10,11	19,21
				9,9.3	8,11	14,19
4KVX37	GlobalFiler Express					
2		24,24	11,14	16,17	11,11	10,10
		14,15	13,14	16,16	14,14	10,10
		14,14	28,29	11,15	X,Y	10,11
			26.2,27.2	9,9.3	8,11	14,19
4WMLZR	GlobalFiler Express					
2		24,24	11,14	16,17	11,11	10,10
		14,15	13,14	16,16	14,14	10,10
		14,14	28,29	11,15	X,Y	10,11
			26.2,27.2	9,9.3	8,11	14,19
6ATYRC	GlobalFiler					
2		24,24	11,14	16,17	11,11	10,10
		14,15	13,14	16,16	14,14	10,10
		14,14	28,29	11,15	X,Y	10,11
			26.2,27.2	9,9.3	8,11	14,19
6KAJC9	GlobalFiler					
2		24	11,14	16,17	11	10
		14,15	13,14	16	14	17
		14	28,29	11,15	X,Y	10,11
			26.2,27.2	9,9.3	8,11	14,19
6WR4XQ	GlobalFiler Express					
2		24,24	11,14	16,17	11,11	10,10
		14,15	13,14	16,16	14,14	10,10
		14,14	28,29	11,15	X,Y	10,11
			26.2,27.2	9,9.3	8,11	14,19
6ZNRCC	Identifiler®					
2		24,24		16,17	11,11	10,10
		14,15		14,14	10,10	17,17
		14,14	28,29	X,Y	10,11	19,21
				9,9.3	8,11	14,19
7BJKX9	Identifiler®					
2		24,24		16,17	11,11	10,10
		14,15		14,14	10,10	17,17
		14,14	28,29	X,Y	10,11	19,21
				9,9.3	8,11	14,19
7BYGQ8	GlobalFiler					
2		24	11,14	16,17	11	10
		14,15	13,14	16	14	17
		14	28,29	11,15	X,Y	10,11
			26.2,27.2	9,9.3	8,11	14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 2 - STR Results

7MVMLQ	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
7NPDR7	<i>PowerPlex® Fast ESI 16 Promega</i>					
2	12,12	24,24	11,14	16,17		
	14,15	13,14	16,16		10,10	17,17
	14,14	28,29	11,15	X,Y		19,21
				9,9.3		14,19
7QVWQ2	<i>Identifiler® Direct, PowerPlex® ESX17</i>					
2	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19
8342GU	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
8BX4H6	<i>Identifiler®</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
8EXEE6	<i>Identifiler®</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
8FTXF7	<i>PowerPlex® Fusion</i>					
2	12	24	11,14	16,17	11	10
	14,15	13,14	16	14	10	17
	14	28,29	11,15	X,Y	10,11	19,21
	9,14	7,14		9,9.3	8,11	14,19
8GZFE3	<i>Identifiler® Plus</i>					
2		24		16,17	11	10
	14,15			14	10	17
	14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
8PFW7C	<i>PowerPlex® 21</i>					
2	12,12	24,24	-	16,17	11,11	10,10
	14,15	-	16,16	14,14	10,10	17,17
	14,14	28,29	-	X,Y	10,11	19,21
	9,14	7,14	-	9,9.3	8,11	14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 2 - STR Results

962Y37	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
9NKVKK	<i>NGM SElect</i>					
2	12,12	24,24	11,14	16,17		
	14,15	13,14	16,16		10,10	17,17
	14,14	28,29	11,15	X,Y		19,21
			26.2,27.2	9,9.3		14,19
AC3BZN	<i>Identifiler® Plus</i>					
2		24		16,17	11	10
	14,15			14	10	17
	14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
AFH6EZ	<i>GlobalFiler Express</i>					
2	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19
B3CCMN	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
B48VNP	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
B9YYGU	<i>Identifiler®</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
BNQWJN	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
C7Q7ZZ	<i>Identifiler® ID Direct</i>					
2		24		16,17	11	10
	14,15			14	10	17
	14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 2 - STR Results

CFVG8P	COfiler® and Profiler Plus®					
2				16,17	11,11	10,10
	14,15			14,14		17,17
		28,29		X,Y		19,21
						14,19
CGN8D6	PowerPlex® Fusion					
2	12	24	11,14	16,17	11	10
	14,15	13,14	16	14	10	17
	14	28,29	11,15	X,Y	10,11	19,21
	9,14	7,14		9,9.3	8,11	14,19
CNPJA2	Globalfiler					
2	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19
CTFWBP	Identifiler®					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
D8GR8W	Identifiler® Plus					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
D8WBQU	Identifiler® Direct, PowerPlex® ESX17					
2	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19
D9D9JT	Identifiler® DIRECT					
2	-	24	-	16,17	11	10
	14,15	-	-	14	10	17
	14	28,29	-	X,Y	10,11	19,21
	-	-	-	9,9.3	8,11	14,19
D9TQ26	PowerPlex® 16 HS					
2				16,17	11,11	10,10
	14,15			14,14	10,10	17,17
		28,29		X,Y	10,11	19,21
	9,14	7,14		9,9.3	8,11	14,19
DLE4FZ	Identifiler® Direct					
2		24		16,17	11	10
	14,15			14	10	17
	14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 2 - STR Results

DR6DPY	<i>Identifiler®</i>					
2		24		16,17	11	10
	14,15			14	10	17
	14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
DY29PH	<i>GlobalFiler Express</i>					
2	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19
EAHCAM	<i>Globalfiler</i>					
2	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19
EH9XDZ	<i>Identifiler®</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
EQ6TDJ	<i>PowerPlex® Fusion 6C System</i>					
2	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
	9,14	7,14	26.2,27.2	9,9.3	8,11	14,19
F3Z7BU	<i>Identifiler® Plus</i>					
2		24		16,17	11	10
	14,15			14	10	17
	14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
FDHN42	<i>Identifiler®</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
FXZVEU	<i>Identifiler® Plus</i>					
2		24		16,17	11	10
	14,15			14	10	17
	14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
FYFEYR	<i>Identifiler®</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19



TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 2 - STR Results

H3PE9N	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
HW2QEJ	<i>Profiler Plus®</i>					
2				16,17	11,11	10,10
	14,15			14,14		17,17
		28,29		X,Y		19,21
						14,19
J6BFRG	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
JCTNFE	<i>PowerPlex® 18D</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
	9,14	7,14		9,9.3	8,11	14,19
JDMELT	<i>Identifiler®</i>					
2		24		16,17	11	10
	14,15			14	10	17
	14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
JQD4JD	<i>PowerPlex® 18D</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
	9,14	7,14		9,9.3	8,11	14,19
JTXXP	<i>PowerPlex® Fusion</i>					
2	12	24	11,14	16,17	11	10
	14,15	13,14	16	14	10	17
	14	28,29	11,15	X,Y	10,11	19,21
	9,14	7,14		9,9.3	8,11	14,19
K6QYAU	<i>GlobalFiler</i>					
2	12	24	11,14	16,17	11	10
	14,15	13,14	16	14	10	17
	14	28,29	11,15	X,Y	10,11	19,21
			26,2,27.2	9,9.3	8,11	14,19
KNY29Y	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 2 - STR Results

KU6U3U	Identifiler®	2		24,24		16,17	11,11	10,10
			14,15			14,14	10,10	17,17
			14,14	28,29		X,Y	10,11	19,21
						9,9.3	8,11	14,19
KVEYFH	Identifiler® Plus	2		24,24		16,17	11,11	10,10
			14,15			14,14	10,10	17,17
			14,14	28,29		X,Y	10,11	19,21
						9,9.3	8,11	14,19
LAFVCP	Globalfiler	2	12	24	11,14	16,17	11	10
			14,15	13,14	16	14	10	17
			14	28,29	11,15	X,Y	10,11	19,21
					26.2,27.2	9,9.3	8,11	14,19
LGDMKJ	Identifiler® Direct	2	-	24	-	16,17	11	10
			14,15	-	-	14	10	17
			14	28,29	-	X,Y	10,11	19,21
			-	-	-	9,9.3	8,11	14,19
LUJJ4L	Identifiler® Direct, PowerPlex® ESX 17	2	12,12	24,24	11,14	16,17	11,11	10,10
			14,15	13,14	16,16	14,14	10,10	17,17
			14,14	28,29	11,15	X,Y	10,11	19,21
					26.2,27.2	9,9.3	8,11	14,19
MCDYGG	Identifiler®	2		24,24		16,17	11,11	10,10
			14,15			14,14	10,10	17,17
			14,14	28,29		X,Y	10,11	19,21
						9,9.3	8,11	14,19
MLNZ3H	PowerPlex® Fusion	2	12	24	11,14	16,17	11	10
			14,15	13,14	16	14	10	17
			14	28,29	11,15	X,Y	10,11	19,21
			9,14	7,14		9,9.3	8,11	14,19
MWK47C	Identifiler® Plus	2		24,24		16,17	11,11	10,10
			14,15			14,14	10,10	17,17
			14,14	28,29		X,Y	10,11	19,21
						9,9.3	8,11	14,19
MYPWXP	Identifiler®	2		24,24		16,17	11,11	10,10
			14,15			14,14	10,10	17,17
			14,14	28,29		X,Y	10,11	19,21
						9,9.3	8,11	14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 2 - STR Results

N3RU9H	<i>Identifiler® Direct</i>					
2	-	24	-	16,17	11	10
	14,15	-	-	14	10	17
	14	28,29	-	X,Y	10,11	19,21
	-	-	-	9,9.3	8,11	14,19
NHJRBD	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
NLH47D	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
NP2X8J	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
PAMCYE	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
PDMMUD	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
PQTFLLQ	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
PTYM8	<i>PowerPlex® 18D</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
	9,14	7,14		9,9.3	8,11	14,19
PZVXXT	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 2 - STR Results

QDFVF3	2 home made multiplexes					
2	12,12		11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
		28,29	11,15	X,Y		19,21
			26.2,27.2	9,9.3	8,11	14,19
QJ4HB9	Identifiler® Plus					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
QKW9GM	Identifiler® Plus					
2		24		16,17	11	10
	14,15			14	10	17
	14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
R3B82B	Identifiler® Plus					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
R4PEMR	PowerPlex® 16 HS					
2				16,17	11,11	10,10
	14,15			14,14	10,10	17,17
		28,29		X,Y	10,11	19,21
	9,14	7,14		9,9.3	8,11	14,19
R7VWLN	Identifiler® Plus					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
RC2T6N	Identifiler®					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
RRD8N7	Identifiler® Plus					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
TDBVT8	Identifiler® Plus					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 2 - STR Results

TH8LYJ	<i>Identifiler® Direct</i>					
2		24		16,17	11	10
	14,15			14	10	17
	14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
THL9B7	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
TUERPC	<i>GlobalFiler</i>					
2	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
	-	-	26.2,27.2	9,9.3	8,11	14,19
U4KWE8	<i>COfiler® and Profiler Plus®</i>					
2				16,17	11,11	10,10
	14,15			14,14		17,17
		28,29		X,Y		19,21
						14,19
U9B7P7	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
UAPRY8	<i>COfiler® and Profiler Plus®</i>					
2				16,17	11,11	10,10
	14,15			14,14		
		28,29		X,Y		19,21
						14,19
UEGYJ2	<i>GlobalFiler Express</i>					
2	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19
UR3CVB	<i>Identifiler® Direct</i>					
2		24		16,17	11	10
	14,15			14	10	17
	14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
UTHCEZ	<i>GlobalFiler Express</i>					
2	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 2 - STR Results

UVM47D	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
UWHM9E	<i>Identifiler®</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
VKMW32	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
VMQNVE	<i>Identifiler® Plus</i>					
2		24		16,17	11	10
	14,15			14	10	17
	14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
VP7L8	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
VUNF49	<i>Identifiler®</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
VH79M	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
VZEQD7	<i>Profiler Plus®</i>					
2				16,17	11,11	10,10
	14,15			14,14		17,17
		28,29		X,Y		19,21
						14,19
WCLZFM	<i>PowerPlex® 21</i>					
2	12,12	24,24		16,17	11,11	10,10
	14,15		16,16	14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
	9,14	7,14		9,9.3	8,11	14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 2 - STR Results

WW9RFJ	<i>Identifiler®</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
XF2QJW	<i>NGM SElect</i>					
2	12,12	24,24	11,14	16,17		
	14,15	13,14	16,16		10,10	17,17
	14,14	28,29	11,15	X,Y		19,21
			26.2,27.2	9,9.3		14,19
XNXPUH	<i>Identifiler®</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
XYTVP2	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
Y9YZDC	<i>GlobalFiler Express</i>					
2	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19
YE6U88	<i>Identifiler® Direct, PowerPlex® ESX17</i>					
2	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19
YF2AJ6	<i>Identifiler® Plus</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
YRQ7JG	<i>Identifiler®</i>					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
YZ9FAY	<i>GlobalFiler Express</i>					
2	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 2 - STR Results

Z2DMPW	GlobalFiler					
2	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19
Z76U97	Identifiler® Direct					
2	-	24	-	16,17	11	10
	14,15	-	-	14	10	17
	14	28,29	-	X,Y	10,11	19,21
	-	-	-	9,9.3	8,11	14,19
Z79DXU	PowerPlex® Fusion, Ngmse					
2	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
	9,14	7,14	26.2,27.2	9,9.3	8,11	14,19
ZEJFJU	AmpFISTR NGM SElect					
2	12,12	24,24	11,14	16,17		
	14,15	13,14	16,16		10,10	17,17
	14,14	28,29	11,15	X,Y		19,21
			26.2,27.2	9,9.3		14,19
ZFEYKW	GlobalFiler Express					
2	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19
ZQCYXZ	Identifiler® Plus					
2		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
ZUXNHD	Identifiler®					
2	N/A	24,24	N/A	16,17	11,11	10,10
	14,15	N/A	N/A	14,14	10,10	17,17
	14,14	28,29	N/A	X,Y	10,11	19,21
	N/A	N/A	N/A	9,9.3	8,11	14,19
ZY6EKJ	GlobalFiler					
2	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19



TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 3 - STR Results

3F64RZ	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
3MRUEV	<i>Identifiler® Plus</i>					
3	-	19,23	-	15,16	11,12	10,12
	14,14	-	-	12,12	10,11	15,19
	11,13	28,30	-	X,X	7,10	19,23
	-	-	-	6,8	8,10	16,16
3QLNCW	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
3RFEHB	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14			12	10,11	15,19
	11,13	28,30		X	7,10	19,23
				6,8	8,10	16
4DVD3W	<i>Identifiler® Plus, MiniFiler</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
4HNF4B	<i>Identifiler®</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
4JKX7C	<i>Identifiler®</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
4WMLZR	<i>GlobalFiler</i>					
3	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
6ATYRC	<i>GlobalFiler</i>					
3	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 3 - STR Results

6KAJC9	GlobalFiler					
3	16.3,18.3	19,23	11	15,16	11,12	10,12
	14	13,14	20,21	12	10,11	15,19
	11,13	28,30	15	X	7,10	19,23
			29.2	6,8	8,10	16
6WR4XQ	GlobalFiler Express					
3	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
6ZNRCC	Identifiler®					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
7BJKX9	Identifiler®					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
7BYGQ8	Globalfiler					
3	16.3,18.3	19,23	11	15,16	11,12	10,12
	14	13,14	20,21	12	10,11	15,19
	11,13	28,30	15	X	7,10	19,23
			29.2	6,8	8,10	16
7MVMLQ	Identifiler® Plus					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
7NPDR7	PowerPlex® Fast ESI 16 Promega					
3	16.3,18.3	19,23	11,11	15,16	-	-
	14,14	13,14	20,21	-	10,11	15,19
	11,13	28,30	15,15	X,X	-	19,23
				6,8	-	16,16
7QVQ2	Identifiler® Plus					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
8342GU	Identifiler® Plus, MiniFiler					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 3 - STR Results

8BX4H6	<i>Identifiler®</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
8EXEE6	<i>Identifiler®</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
8FTXF7	<i>PowerPlex® Fusion</i>					
3	16.3,18.3	19,23	11	15,16	11,12	10,12
	14	13,14	20,21	12	10,11	15,19
	11,13	28,30	15	X	7,10	19,23
	5,11	5,7		6,8	8,10	16
8GZFE3	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14			12	10,11	15,19
	11,13	28,30		X	7,10	19,23
				6,8	8,10	16
8PFW7C	<i>PowerPlex® 21</i>					
3	16.3,18.3	19,23	-	15,16	11,12	10,12
	14,14	-	20,21	12,12	10,11	15,19
	11,13	28,30	-	X,X	7,10	19,23
	5,11	5,7	-	6,8	8,10	16,16
962Y37	<i>Identifiler® Plus</i>					
3	14,1	19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
9NKVKK	<i>NGM SElect</i>					
3	16.3,18.3	19,23	11,11	15,16		
	14,14	13,14	20,21		10,11	15,19
	11,13	28,30	15,15	X,X		19,23
			29.2,29.2	6,8		16,16
AC3BZN	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14			12	10,11	15,19
	11,13	28,30		X	7,10	19,23
				6,8	8,10	16
B3CCMN	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 3 - STR Results

B48VNP	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
BNQWJN	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
CFVG8P	<i>COfiler® and Profiler Plus®</i>					
3				15,16	11,12	10,12
	14,14			12,12		15,19
		28,30		X,X		19,23
						16,16
CNPJA2	<i>Globalfiler</i>					
3	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
CTFWBP	<i>Identifiler®</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
D8GR8W	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
D8WBQU	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
D9D9JT	<i>Identifiler® Plus</i>					
3	-	19,23	-	15,16	11,12	10,12
	14	-	-	12	10,11	15,19
	11,13	28,30	-	X,X	7,10	19,23
	-	-	-	6,8	8,10	16
D9TQ26	<i>PowerPlex® 16 HS</i>					
3				15,16	11,12	10,12
	14,14			12,12	10,11	15,19
		28,30		X,X	7,10	19,23
	5,11	5,7		6,8	8,10	16,16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 3 - STR Results

DY29PH	GlobalFiler					
3	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
EAHCAM	Globalfiler					
3	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
EH9XDZ	Identifiler®					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
EQ6TDJ	PowerPlex® 6C Fusion System					
3	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
	5,11	5,7	29.2,29.2	6,8	8,10	16,16
F3Z7BU	Identifiler® Plus					
3		19,23		15,16	11,12	10,12
	14			12	10,11	15,19
	11,13	28,30		X	7,10	19,23
				6,8	8,10	16
FDHN42	Identifiler®					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
FXZVEU	Identifiler® Plus					
3		19,23		15,16	11,12	10,12
	14			12	10,11	15,19
	11,13	28,30		X	7,10	19,23
				6,8	8,10	16
FYFEYR	Identifiler®					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
H3PE9N	Identifiler® Plus					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 3 - STR Results

HW2QEJ	<i>Profiler Plus®</i>					
3				15,16	11,12	10,12
	14,14			12,12		15,19
		28,30		X,X		19,23
						16,16
J6BFRG	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
JCTNFE	<i>PowerPlex®</i>					
3						
JDMELT	<i>Identifiler®</i>					
3		19,23		15,16	11,12	10,12
	14			12	10,11	15,19
	11,13	28,30		X	7,10	19,23
				6,8	8,10	16
JTTXP	<i>PowerPlex® Fusion</i>					
3	16.3,18.3	19,23	11	15,16	11,12	10,12
	14	13,14	20,21	12	10,11	15,19
	11,13	28,30	15	X	7,10	19,23
	5,11	5,7		6,8	8,10	16
K6QYAU	<i>GlobalFiler</i>					
3	16.3,18.3	19,23	11	15,16	11,12	10,12
	14	13,14	20,21	12	10,11	15,19
	11,13	28,30	15	X	7,10	19,23
			29.2	6,8	8,10	16
KNY29Y	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
KU6U3U	<i>Identifiler®</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
KVEYFH	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 3 - STR Results

LAFVCP	<i>Globalfiler</i>					
3	16.3,18.3	19,23	11	15,16	11,12	10,12
	14	13,14	20,21	12	10,11	15,19
	11,13	28,30	15	X	7,10	19,23
			29.2	6,8	8,10	16
LGDMKJ	<i>Identifiler® Plus</i>					
3	-	19,23	-	15,16	11,12	10,12
	14	-	-	12	10,11	15,19
	11,13	28,30	-	X,X	7,10	19,23
	-	-	-	6,8	8,10	16
LUJJ4L	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
MLNZ3H	<i>PowerPlex® Fusion</i>					
3	16.3,18.3	19,23	11	15,16	11,12	10,12
	14	13,14	20,21	12	10,11	15,19
	11,13	28,30	15	X	7,10	19,23
	5,11	5,7		6,8	8,10	16
MWK47C	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
MYPWXP	<i>Identifiler®</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
N3RU9H	<i>Identifiler® Plus</i>					
3	-	19,23	-	15,16	11,12	10,12
	14	-	-	12	10,11	15,19
	11,13	28,30	-	X,X	7,10	19,23
	-	-	-	6,8	8,10	16
NHJRBD	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
NLH47D	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 3 - STR Results

NP2X8J	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
PAMCYE	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
PDMMUD	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
PQTFLQ	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
PZVXXT	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
QDFVF3	<i>2 home made multiplexes</i>					
3	16.3,18.3		11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
		28,30	15,15	X,X		19,23
			29.2,29.2	6,8	8,10	16,16
QJ4HB9	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
QKW9GM	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14			12	10,11	15,19
	11,13	28,30		X	7,10	19,23
				6,8	8,10	16
R3B82B	<i>Identifiler® Plus, MiniFiler</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16



TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 3 - STR Results

R4PEMR	<i>PowerPlex® 16 HS</i>					
3				15,16	11,12	10,12
	14,14			12,12	10,11	15,19
		28,30		X,X	7,10	19,23
	5,11	5,7		6,8	8,10	16,16
R7VWLN	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
RC2T6N	<i>Identifiler®</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
RRD8N7	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
TDBVT8	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
THL9B7	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
TUERPC	<i>GlobalFiler</i>					
3	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
	-	-	29.2,29.2	6,8	8,10	16,16
U4KWE8	<i>COfiler® and Profiler Plus®</i>					
3				15,16	11,12	10,12
	14,14			12,12		15,19
		28,30		X,X		19,23
						16,16
U9B7P7	<i>Identifiler® Plus, MiniFiler</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 3 - STR Results

UAPRY8	<i>COfiler® and Profiler Plus®</i>					
3				15,16	11,12	10,12
	14,14			12,12		15,19
		28,30		X,X		19,23
						16,16
UEGYJ2	<i>GlobalFiler</i>					
3	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
UR3CVB	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14			12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16
UTHCEZ	<i>GlobalFiler</i>					
3	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
UVM47D	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
UWHM9E	<i>Identifiler®</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
VKMW32	<i>Identifiler® Plus, MiniFiler</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
VMQNVE	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14			12	10,11	15,19
	11,13	28,30		X	7,10	19,23
				6,8	8,10	16
VPTL78	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 3 - STR Results

WH79M	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
VZEQD7	<i>Profiler Plus®</i>					
3				15,16	11,12	10,12
	14,14			12,12		15,19
		28,30		X,X		19,23
						16,16
WCLZFM	<i>PowerPlex® 21</i>					
3	16.3,18.3	19,23		15,16	11,12	10,12
	14,14		20,21	12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
	5,11	5,7		6,8	8,10	16,16
XF2QJW	<i>NGM SElect</i>					
3	16.3,18.3	19,23	11,11	15,16		
	14,14	13,14	20,21		10,11	15,19
	11,13	28,30	15,15	X,X		19,23
			29.2,29.2	6,8		16,16
XNXPUH	<i>Identifiler®</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
XYTVP2	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
YE6U88	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
YF2AJ6	<i>Identifiler® Plus</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
YRQ7JG	<i>Identifiler®</i>					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 3 - STR Results

YZ9FAY	GlobalFiler Express					
3	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
Z2DMPW	GlobalFiler					
3	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
Z76U97	Identifiler® Plus					
3	-	19,23	-	15,16	11,12	10,12
	14	-	-	12	10,11	15,19
	11,13	28,30	-	X,X	7,10	19,23
	-	-	-	6,8	8,10	16
Z79DXU	PowerPlex® ES17					
3	16.3,18.3	19,23	11,11	15,16		
	14,14	13,14	20,21		10,11	15,19
	11,13	28,30	15,15	X,X		19,23
			29.2,29.2	6,8		16,16
ZEJFJU	AmpFISTR NGM SElect					
3	16.3,18.3	19,23	11,11	15,16		
	14,14	13,14	20,21		10,11	15,19
	11,13	28,30	15,15	X,X		19,23
			29.2,29.2	6,8		16,16
ZFEYKW	GlobalFiler					
3	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16
ZQCYXZ	Identifiler® Plus, MiniFiler					
3		19,23		15,16	11,12	10,12
	14,14			12,12	10,11	15,19
	11,13	28,30		X,X	7,10	19,23
				6,8	8,10	16,16
ZUXNHD	Identifiler®					
3	N/A	19,23	N/A	15,16	11,12	10,12
	14,14	N/A	N/A	12,12	10,11	15,19
	11,13	28,30	N/A	X,X	7,10	19,23
	N/A	N/A	N/A	6,8	8,10	16,16
ZY6EKJ	GlobalFiler					
3	16.3,18.3	19,23	11,11	15,16	11,12	10,12
	14,14	13,14	20,21	12,12	10,11	15,19
	11,13	28,30	15,15	X,X	7,10	19,23
			29.2,29.2	6,8	8,10	16,16

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4 - STR Results

3F64RZ	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
3MRUEV	<i>Identifiler® Plus</i>					
4	-	24,24	-	16,17	11,11	10,10
	14,15	-	-	14,14	10,10	17,17
	14,14	28,29	-	X,Y	10,11	19,21
	-	-	-	9,9.3	8,11	14,19
3QLNCW	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
3RFEHB	<i>Identifiler® Plus</i>					
4		24		16,17	11	10
	14,15			14	10	17
	14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
4DVD3W	<i>Identifiler® Plus, MiniFiler</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
4HNF4B	<i>Identifiler®</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
4JKX7C	<i>Identifiler®</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
4WMLZR	<i>GlobalFiler</i>					
4	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19
6ATYRC	<i>GlobalFiler</i>					
4	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 4 - STR Results

6KAJC9	GlobalFiler					
4	12	24	11,14	16,17	11	10
	14,15	13,14	16	14	10	17
	14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19
6WR4XQ	GlobalFiler Express					
4	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19
6ZNRCC	Identifiler®					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
7BJKX9	Identifiler®					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
7BYGQ8	Globalfiler					
4	12	24	11,14	16,17	11	10
	14,15	13,14	16	14	10	17
	14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19
7MVMLQ	Identifiler® Plus					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
7NPDR7	PowerPlex® Fast ESI 16 Promega					
4	12,12	24,24	11,14	16,17	-	-
	14,15	13,14	16,16	-	10,10	17,17
	14,14	28,29	11,15	X,Y	-	19,21
				9,9.3	-	14,19
7QVQ2	Identifiler® Plus					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
8342GU	Identifiler® Plus, MiniFiler					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 4 - STR Results

8BX4H6	<i>Identifiler®</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
8EXEE6	<i>Identifiler®</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
8FTXF7	<i>PowerPlex® Fusion</i>					
4	12	24	11,14	16,17	11	10
	14,15	13,14	16	14	10	17
	14	28,29	11,15	X,Y	10,11	19,21
	9,14	7,14		9,9.3	8,11	14,19
8GZFE3	<i>Identifiler® Plus</i>					
4		24		16,17	11	10
	14,15			14	10	17
	14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
8PFW7C	<i>PowerPlex® 21</i>					
4	12,12	24,24	-	16,17	11,11	10,10
	14,15	-	16,16	14,14	10,10	17,17
	14,14	28,29	-	X,Y	10,11	19,21
	9,14	7,14	-	9,9.3	8,11	14,19
962Y37	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
9NKVKK	<i>NGM SElect</i>					
4	12,12	24,24	11,14	16,17		
	14,15	13,14	16,16		10,10	17,17
	14,14	28,29	11,15	X,Y		19,21
			26.2,27.2	9,9.3		14,19
AC3BZN	<i>Identifiler® Plus</i>					
4		24		16,17	11	10
	14,15			14	10	17
	14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
B3CCMN	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 4 - STR Results

B48VNP	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
BNQWJN	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
CFVG8P	<i>COfiler® and Profiler Plus®</i>					
4				16,17	11,11	10,10
	14,15			14,14		17,17
		28,29		X,Y		19,21
						14,19
CNPJA2	<i>Globalfiler</i>					
4	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19
CTFWBP	<i>Profiler Plus®</i>					
4				16,17	11,11	10,10
	14,15			14,14		17,17
		28,29		X,Y		19,21
						14,19
D8GR8W	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
D8WBQU	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
D9D9JT	<i>Identifiler® Plus</i>					
4	-	24	-	16,17	11	10
	14,15	-	-	14	10	17
	14	28,29	-	X,Y	10,11	19,21
	-	-	-	9,9.3	8,11	14,19
D9TQ26	<i>PowerPlex® 16 HS</i>					
4				16,17	11,11	10,10
	14,15			14,14	10,10	17,17
		28,29		X,Y	10,11	19,21
	9,14	7,14		9,9.3	8,11	14,19



TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 4 - STR Results

DY29PH	<i>GlobalFiler</i>					
4	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19
EAHCAM	<i>Globalfiler</i>					
4	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19
EH9XDZ	<i>Identifiler®</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
EQ6TDJ	<i>PowerPlex® 6C Fusion</i>					
4	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
	9,14	7,14	26.2,27.2	9,9.3	8,11	14,19
F3Z7BU	<i>Identifiler® Plus</i>					
4		24		16,17	11	10
	14,15			14	10	17
	14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
FDHN42	<i>Identifiler®</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
FXZVEU	<i>Identifiler® Plus</i>					
4		24		16,17	11	10
	14,15			14	10	17
	14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
FYFEYR	<i>Identifiler®</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
H3PE9N	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 4 - STR Results

HW2QEJ	<i>Profiler Plus®</i>					
4				16,17	11,11	10,10
	14,15			14,14		17,17
		28,29		X,Y		19,21
						14,19
J6BFRG	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
JDMELT	<i>Identifiler®</i>					
4		24		16,17	11	10
	14,15			14	10	17
	14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
JTTXP	<i>PowerPlex® Fusion</i>					
4	12	24	11,14	16,17	11	10
	14,15	13,14	16	14	10	17
	14	28,29	11,15	X,Y	10,11	19,21
	9,14	7,14		9,9.3	8,11	14,19
K6QYAU	<i>GlobalFiler</i>					
4	12	24	11,14	16,17	11	10
	14,15	13,14	16	14	10	17
	14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19
KNY29Y	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
KU6U3U	<i>Identifiler®</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
KVEYFH	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
LAFVCP	<i>Globalfiler</i>					
4	12	24	11,14	16,17	11	10
	14,15	13,14	16	14	10	17
	14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4 - STR Results

LGDMKJ	<i>Identifiler® Plus</i>					
4	-	24	-	16,17	11	10
	14,15	-	-	14	10	17
	14	28,29	-	X,Y	10,11	19,21
	-	-	-	9,9.3	8,11	14,19
LUJJ4L	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
MLNZ3H	<i>PowerPlex® Fusion</i>					
4	12	24	11,14	16,17	11	10
	14,15	13,14	16	14	10	17
	14	28,29	11,15	X,Y	10,11	19,21
	9,14	7,14		9,9.3	8,11	14,19
MWK47C	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
MYPWXP	<i>Identifiler®</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
N3RU9H	<i>Identifiler® Plus</i>					
4	-	24	-	16,17	11	10
	14,15	-	-	14	10	17
	14	28,29	-	X,Y	10,11	19,21
	-	-	-	9,9.3	8,11	14,19
NHJRBD	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
NLH47D	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
NP2X8J	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 4 - STR Results

PAMCYE	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
PDMMUD	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
PQTFLLQ	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
PZVXXT	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
QDFVF3	<i>2 home made multiplexes</i>					
4	12,12		11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
		28,29	11,15	X,Y		19,21
			26.2,27.2	9,9.3	8,11	14,19
QJ4HB9	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
QKW9GM	<i>Identifiler® Plus</i>					
4		24		16,17	11	10
	14,15			14	10	17
	14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
R3B82B	<i>Identifiler® Plus, MiniFiler</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
R4PEMR	<i>PowerPlex® 16 HS</i>					
4				16,17	11,11	10,10
	14,15			14,14	10,10	17,17
		28,29		X,Y	10,11	19,21
	9,14	7,14		9,9.3	8,11	14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 4 - STR Results

R7VWLN	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
RC2T6N	<i>Identifiler®</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
RRD8N7	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
TDBVT8	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
THL9B7	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
TUERPC	<i>GlobalFiler</i>					
4	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
	-	-	26.2,27.2	9,9.3	8,11	14,19
U4KWE8	<i>COfiler® and Profiler Plus®</i>					
4				16,17	11,11	10,10
	14,15			14,14		17,17
		28,29		X,Y		19,21
						14,19
U9B7P7	<i>Identifiler® Plus, MiniFiler</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
UAPRY8	<i>COfiler® and Profiler Plus®</i>					
4				16,17	11,11	10,10
	14,15			14,14		
		28,29		X,Y		19,21
						14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4 - STR Results

UEGYJ2	<i>GlobalFiler</i>						
	4	12,12	24,24	11,14	16,17	11,11	10,10
		14,15	13,14	16,16	14,14	10,10	17,17
		14,14	28,29	11,15	X,Y	10,11	19,21
				26.2,27.2	9,9.3	8,11	14,19
UR3CVB	<i>Identifiler® Plus</i>						
	4		24		16,17	11	10
		14,15			14	10	17
		14	28,29		X,Y	10,11	19,21
					9,9.3	8,11	14,19
UTHCEZ	<i>GlobalFiler</i>						
	4	12,12	24,24	11,14	16,17	11,11	10,10
		14,15	13,14	16,16	14,14	10,10	17,17
		14,14	28,29	11,15	X,Y	10,11	19,21
				26.2,27.2	9,9.3	8,11	14,19
UVM47D	<i>Identifiler® Plus</i>						
	4		24,24		16,17	11,11	10,10
		14,15			14,14	10,10	17,17
		14,14	28,29		X,Y	10,11	19,21
					9,9.3	8,11	14,19
UWHM9E	<i>Identifiler®</i>						
	4		24,24		16,17	11,11	10,10
		14,15			14,14	10,10	17,17
		14,14	28,29		X,Y	10,11	19,21
					9,9.3	8,11	14,19
VKMV32	<i>Identifiler® Plus, MiniFiler</i>						
	4		24,24		16,17	11,11	10,10
		14,15			14,14	10,10	17,17
		14,14	28,29		X,Y	10,11	19,21
					9,9.3	8,11	14,19
VMQNVE	<i>Identifiler® Plus</i>						
	4		24		16,17	11	10
		14,15			14	10	17
		14	28,29		X,Y	10,11	19,21
					9,9.3	8,11	14,19
VP7L78	<i>Identifiler® Plus</i>						
	4		24,24		16,17	11,11	10,10
		14,15			14,14	10,10	17,17
		14,14	28,29		X,Y	10,11	19,21
					9,9.3	8,11	14,19
VH79M	<i>Identifiler® Plus</i>						
	4		24,24		16,17	11,11	10,10
		14,15			14,14	10,10	17,17
		14,14	28,29		X,Y	10,11	19,21
					9,9.3	8,11	14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 4 - STR Results

VZEQD7	<i>Profiler Plus®</i>					
4				16,17	11,11	10,10
	14,15			14,14		17,17
		28,29		X,Y		19,21
						14,19
WCLZFM	<i>PowerPlex® 21</i>					
4	12,12	24,24		16,17	11,11	10,10
	14,15		16,16	14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
	9,14	7,14		9,9.3	8,11	14,19
XF2QJW	<i>NGM SElect</i>					
4	12,12	24,24	11,14	16,17		
	14,15	13,14	16,16		10,10	17,17
	14,14	28,29	11,15	X,Y		19,21
			26.2,27.2	9,9.3		14,19
XNXPUH	<i>Identifiler®</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
XYTVP2	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
YE6U88	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
YF2AJ6	<i>Identifiler® Plus</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
YRQ7JG	<i>Identifiler®</i>					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
YZ9FAY	<i>GlobalFiler Express</i>					
4	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19

TABLE 1

WebCode Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
	Penta D	Penta E	SE33	TH01	TPOX	vWA

## Item 4 - STR Results

Z2DMPW	GlobalFiler					
4	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19
Z76U97	Identifiler® Plus					
4	-	24	-	16,17	11	10
	14,15	-	-	14	10	17
	14	28,29	-	X,Y	10,11	19,21
	-	-	-	9,9.3	8,11	14,19
Z79DXU	PowerPlex® ES17					
4	12,12	24,24	11,14	16,17		
	14,15	13,14	16,16		10,10	17,17
	14,14	28,29	11,15	X,Y		19,21
			26.2,27.2	9,9.3		14,19
ZEJFJU	AmpFISTR NGM SElect					
4	12,12	24,24	11,14	16,17		
	14,15	13,14	16,16		10,10	17,17
	14,14	28,29	11,15	X,Y		19,21
			26.2,27.2	9,9.3		14,19
ZFEYKW	GlobalFiler					
4	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19
ZQCYXZ	Identifiler® Plus, MiniFiler					
4		24,24		16,17	11,11	10,10
	14,15			14,14	10,10	17,17
	14,14	28,29		X,Y	10,11	19,21
				9,9.3	8,11	14,19
ZUXNHD	Identifiler®					
4	N/A	24,24	N/A	16,17	11,11	10,10
	14,15	N/A	N/A	14,14	10,10	17,17
	14,14	28,29	N/A	X,Y	10,11	19,21
	N/A	N/A	N/A	9,9.3	8,11	14,19
ZY6EKJ	GlobalFiler					
4	12,12	24,24	11,14	16,17	11,11	10,10
	14,15	13,14	16,16	14,14	10,10	17,17
	14,14	28,29	11,15	X,Y	10,11	19,21
			26.2,27.2	9,9.3	8,11	14,19



# YSTR Results

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

## Item 2 - YSTR Results

3F64RZ	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
3QLNCW	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
4DVD3W	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
4HNF4B	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
4JKX7C	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
4KVX37	GlobalFiler Express 2						10		
									2
4WMLZR	Yfiler® Plus 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15	25	11
			19	16	21		11	2	
6ATYRC	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11	2	
6KAJC9	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
6ZNRCC	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

## Item 2 - YSTR Results

7BYGQ8	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
7MVMLQ	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
8342GU	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
8BX4H6	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
8EXEE6	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
8GZFE3	PowerPlex® Y 23 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15	25	11
		13	19	16	21	11	11		
AFH6EZ	2						10		
								2	
B3CCMN	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
B48VNP	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
BNQWJN	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

## Item 2 - YSTR Results

D8GR8W	Yfiler®	2	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
D9D9JT	Yfiler® Y-Filer	2	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	-	-
			-	-	-	21	-	11	-	-
D9TQ26	PowerPlex® Y 23	2	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	25	11
			13	19	16	21	11	11		
DY29PH	Yfiler® Plus	2	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	25	11
				19	16	21		11	2	
EH9XDZ	Yfiler®	2	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
EQ6TDJ	PowerPlex® Y 23 System	2	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	25	11
			13	19	16	21	11	11		
F3Z7BU	PowerPlex® Y 23	2	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	25	11
			13	19	16	21	11	11		
FYFEYR	PowerPlex® Y 23	2	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	25	11
			13	19	16	21	11	11		
J6BFRG	Yfiler®	2	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
K6QYAU	Yfiler® , Globalfiler for Y Indel	2	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11	2	

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

## Item 2 - YSTR Results

KU6U3U	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
KVEYFH	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
LAFVCP	2						10		
									2
LGDMKJ	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15	-	-
		-	-	-	21	-	11	-	-
MWK47C	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
MYPWXP	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
N3RU9H	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15	-	-
		-	-	-	21	-	11	-	-
NHJRB	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
NLH47D	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
PAMCYE	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

## Item 2 - YSTR Results

PDMMUD	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
QJ4HB9	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
R3B82B	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
R4PEMR	PowerPlex® Y 23 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15	25	11
		13	19	16	21	11	11		
RC2T6N	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
RRD8N7	Yfiler® plus 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15	25	11
			19	16	21		11		
TDBVT8	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
THL9B7	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
TUERPC	GlobalFiler 2	-	--	-	-	-	10	-	-
		-	-	-	-	-	-	-	-
		-	-	-	-	-	-	2	
U9B7P7	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

## Item 2 - YSTR Results

UEGYJ2	Yfiler® Plus	2	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	25	11
				19	16	21		11	2	
UR3CVB	Yfiler®	2	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
UTHCEZ	Yfiler® Plus	2	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	25	11
				19	16	21		11	2	
UWHM9E	PowerPlex® Y 23	2	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	25	11
			13	19	16	21	11	11		
VKMV32	Yfiler®	2	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
VPTL78	Yfiler®	2	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
VH79M	Yfiler®	2	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
XNXPUH	Yfiler®	2	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
XYTVP2	Yfiler®	2	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
Y9YZDC	GlobalFiler Express	2						10		
										2

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

## Item 2 - YSTR Results

YF2AJ6	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
Z2DMPW	2						10		
									2
Z76U97	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15	-	-
		-	-	-	21	-	11	-	-
Z79DXU	PowerPlex® Y Y23 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15	25	11
		13	19	16	21	11	11		
ZFEYKW	Yfiler® Plus 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15	25	11
			19	16	21		11	2	
ZQCYXZ	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
ZUXNHD	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15	N/A	N/A
		N/A	N/A	N/A	21	N/A	11	N/A	
ZY6EKJ	Yfiler® 2	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11	2	

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

## Item 4 - YSTR Results

3F64RZ	Yfiler® 4	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
3QLNCW	Yfiler® 4	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
4DVD3W	Yfiler® 4	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
4HNF4B	Yfiler® 4	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
4JKX7C	Yfiler® 4	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
4WMLZR	Yfiler® Plus 4	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15	25	11
			19	16	21		11	2	
6ATYRC	Yfiler® 4	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11	2	
6KAJC9	Yfiler® 4	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
6ZNRCC	Yfiler® 4	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
7BYGQ8	Yfiler® 4	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		



TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

## Item 4 - YSTR Results

7MVMLQ	Yfiler® 4	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
8342GU	Yfiler® 4	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
8BX4H6	Yfiler® 4	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
8EXEE6	Yfiler® 4	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
8GZFE3	PowerPlex® Y 23 4	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15	25	11
		13	19	16	21	11	11		
B3CCMN	Yfiler® 4	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
B48VNP	Yfiler® 4	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
BNQWJN	Yfiler® 4	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
D8GR8W	Yfiler® 4	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
D9D9JT	Yfiler® Y-Filer 4	14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15	-	-
		-	-	-	21	-	11	-	-

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

## Item 4 - YSTR Results

D9TQ26	PowerPlex® Y 23	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	25	11
			13	19	16	21	11	11		
DY29PH	Yfiler® Plus	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	25	11
				19	16	21		11	2	
EH9XDZ	Yfiler®	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
EQ6TDJ	PowerPlex® Y 23 System	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	25	11
			13	19	16	21	11	11		
F3Z7BU	PowerPlex® Y 23	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	25	11
			13	19	16	21	11	11		
FYFEYR	PowerPlex® Y 23	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	25	11
			13	19	16	21	11	11		
J6BFRG	Yfiler®	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
K6QYAU	Yfiler® , GlobalFiler for Y Indel	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11	2	
KU6U3U	Yfiler®	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
KVEYFH	Yfiler®	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

## Item 4 - YSTR Results


LAFVCP	4						10		
									
								2	
LGDMKJ	Yfiler®								
4		14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15	-	-
		-	-	-	21	-	11	-	-
MWK47C	Yfiler®								
4		14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
MYPWXP	Yfiler®								
4		14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
N3RU9H	Yfiler®								
4		14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15	-	-
		-	-	-	21	-	11	-	-
NHJRBD	Yfiler®								
4		14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
NLH47D	Yfiler®								
4		14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
PAMCYE	Yfiler®								
4		14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
PDMMUD	Yfiler®								
4		14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		
QJ4HB9	Yfiler®								
4		14	13,15	13	29	22	10	11	13
		16	10	12	20	14	15		
					21		11		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

## Item 4 - YSTR Results

R3B82B	Yfiler®	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
R4PEMR	PowerPlex® Y 23	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	25	11
			13	19	16	21	11	11		
RC2T6N	Yfiler®	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
RRD8N7	Yfiler® plus	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	25	11
				19	16	21		11		
TDBVT8	Yfiler®	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
THL9B7	Yfiler®	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
TUERPC	GlobalFiler	4	-	-	-	-	-	10	-	-
			-	-	-	-	-	-	-	-
			-	-	-	-	-	-	2	
U9B7P7	Yfiler®	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
UEGYJ2	Yfiler® Plus	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	25	11
				19	16	21		11	2	
UR3CVB	Yfiler®	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	

## Item 4 - YSTR Results

UTHCEZ	Yfiler® Plus	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	25	11
				19	16	21		11	2	
UWHM9E	PowerPlex® Y 23	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	25	11
			13	19	16	21	11	11		
VKMV32	Yfiler®	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
VPTL78	Yfiler®	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
VH79M	Yfiler®	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
XNXPUH	Yfiler®	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
XYTVP2	Yfiler®	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
YF2AJ6	Yfiler®	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
Z2DMPW	4							10		
									2	
Z76U97	Yfiler®	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	-	-
			-	-	-	21	-	11	-	

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

Item 4 - YSTR Results

Z79DXU	PowerPlex® Y Y23	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	25	11
			13	19	16	21	11	11		
ZFEYKW	Yfiler® Plus	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	25	11
				19	16	21		11	2	
ZQCYXZ	Yfiler®	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11		
ZUXNHD	Yfiler®	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15	N/A	N/A
			N/A	N/A	N/A	21	N/A	11	N/A	
ZY6EKJ	Yfiler®	4	14	13,15	13	29	22	10	11	13
			16	10	12	20	14	15		
						21		11	2	

**Additional DNA Results**

TABLE 3

Locus	WebCode	Item 1	Item 2	Item 3	Item 4
CD-4	QDFVF3	5,10	5,6	5,10	5,6
D6S1043	8PFW7C	12,19	12,19	12,19	12,19
	WCLZFM	12,19	12,19	12,19	12,19
DYF387S1	4WMLZR		37,38		37,38
	DY29PH		37,38		37,38
	RRD8N7		37,38		37,38
	UEGYJ2		37,38		37,38
	UTHCEZ		37,38		37,38
	ZFEYKW		37,38		37,38
DYS391	6WR4XQ		10		10
	8FTXF7		10		10
	CGN8D6		10		
	CNPJA2		10		10
	JTTXP		10		10
	MLNZ3H		10		10
	YZ9FAY		10		10
DYS449	4WMLZR		27		27
	DY29PH		27		27
	RRD8N7		27		27
	UEGYJ2		27		27
	UTHCEZ		27		27
	ZFEYKW		27		27
DYS460	4WMLZR		10		10
	DY29PH		10		10
	RRD8N7		10		10
	UEGYJ2		10		10
	UTHCEZ		10		10
	ZFEYKW		10		10
DYS518	4WMLZR		39		39
	DY29PH		39		39
	RRD8N7		39		39
	UEGYJ2		39		39
	UTHCEZ		39		39
	ZFEYKW		39		39
DYS627	4WMLZR		18		18
	DY29PH		18		18
	RRD8N7		18		18
	UEGYJ2		18		18
	UTHCEZ		18		18
	ZFEYKW		18		18
INDEL	7BYGQ8		2		2

TABLE 3

Locus	WebCode	Item 1	Item 2	Item 3	Item 4
Yindel	6KAJC9		2		2
	6WR4XQ		2		2
	CNPJA2		2		2
	YZ9FAY		2		NR



## DNA Interpretations

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

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
27NZ8V	No Interpretations Reported, DNA Analyzed for Database purposes only.				7NPDR7	Yes	No	No	Yes
2ZH4NV	No Interpretations Reported, DNA Analyzed for Database purposes only.				7QWQ2	Yes	No	No	Yes
3F64RZ	Yes	No	No	Yes	8342GU	Yes	No	No	Yes
3MRUEV	Yes	No	No	Yes	8BX4H6	Yes	No	No	Yes
3QLNCW	Yes	No	No	Yes	8EXEE6	Yes	No	No	Yes
3RFEHB	Yes	No	No	Yes	8FTXF7	Yes	No	No	Yes
3WDXLV	No Interpretations Reported, DNA Analyzed for Database purposes only.				8GZFE3	Yes	No	No	Yes
4DVD3W	Yes	No	No	Yes	8PFW7C	Yes	No	No	Yes
4HNF4B	No Interpretations Reported, DNA Analyzed for Database purposes only.				962Y37	Yes	No	No	Yes
4JKX7C	Yes	No	No	Yes	9NKVKK	Yes	No	No	Yes
4KVX37	No Interpretations Reported, DNA Analyzed for Database purposes only.				AC3BZN	Yes	No	No	Yes
4WMLZR	Yes	No	No	Yes	AFH6EZ	No Interpretations Reported, DNA Analyzed for Database purposes only.			
6ATYRC	Yes	No	No	Yes	B3CCMN	Yes	No	No	Yes
6KAJC9	Yes	No	No	Yes	B48VNP	Yes	No	No	Yes
6WR4XQ	Yes	No	No	Yes	B9YYGU	No Interpretations Reported, DNA Analyzed for Database purposes only.			
6ZNRCC	No Interpretations Reported, DNA Analyzed for Database purposes only.				BNQWJN	Yes	No	No	Yes
7BJKX9	No Interpretations Reported, DNA Analyzed for Database purposes only.				C7Q7ZZ	No Interpretations Reported, DNA Analyzed for Database purposes only.			
7BYGQ8	Yes	No	No	Yes	CFVG8P	Yes	No	No	Yes
7MVMLQ	Yes	No	No	Yes	CGN8D6	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
CNPJA2	No Interpretations Reported, DNA Analyzed for Database purposes only.				JQD4JD	No Interpretations Reported, DNA Analyzed for Database purposes only.			
CTFWBP	Yes	No	No	Yes	JTXXP	Yes	No	No	Yes
D8GR8W	Yes	No	No	Yes	K6QYAU	Yes	No	No	Yes
D8WBQU	Yes	No	No	Yes	KNY29Y	Yes	No	No	Yes
D9D9JT	Yes	No	No	Yes	KU6U3U	No Interpretations Reported, DNA Analyzed for Database purposes only.			
D9TQ26	Yes	No	No	Yes	KVEYFH	Yes	No	No	Yes
DLE4FZ	No Interpretations Reported, DNA Analyzed for Database purposes only.				LAFVCP	Yes	No	No	Yes
DR6DPY	No Interpretations Reported, DNA Analyzed for Database purposes only.				LGDMKJ	Yes	No	No	Yes
DY29PH	Yes	No	No	Yes	LUJJ4L	Yes	No	No	Yes
EAHCAM	Yes	No	No	Yes	MCDYGG	No Interpretations Reported, DNA Analyzed for Database purposes only.			
EH9XDZ	No Interpretations Reported, DNA Analyzed for Database purposes only.				MLNZ3H	Yes	No	No	Yes
EQ6TDJ	Yes	No	No	Yes	MWK47C	Yes	No	No	Yes
F3Z7BU	Yes	No	No	Yes	MYPWXP	Yes	No	No	Yes
FDHN42	No Interpretations Reported, DNA Analyzed for Database purposes only.				N3RU9H	Yes	No	No	Yes
FXZVEU	Yes	No	No	Yes	NHJRBD	Yes	No	No	Yes
FYFEYR	Yes	No	No	Yes	NLH47D	Yes	No	No	Yes
H3PE9N	Yes	No	No	Yes	NP2X8J	Yes	No	No	Yes
HW2QEJ	Yes	No	No	Yes	PAMCYE	Yes	No	No	Yes
J6BFRG	Yes	No	No	Yes	PDMMUD	Yes	No	No	Yes
JCTNFE	No Interpretations Reported, DNA Analyzed for Database purposes only.				PQTFLQ	Yes	No	No	Yes
JDMELT	Yes	No	No	Yes	PTYM8	No Interpretations Reported, DNA Analyzed for Database purposes only.			
					PZVXXT	Yes	No	No	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
QDFVF3	Yes	No	No	Yes	VMQNVE	Yes	No	No	Yes
QJ4HB9	Yes	No	No	Yes	VPTL78	Yes	No	No	Yes
QKW9GM	Yes	No	No	Yes	VUNF49	No Interpretations Reported, DNA Analyzed for Database purposes only.			
R3B82B	Yes	No	No	Yes	VH79M	Yes	No	No	Yes
R4PEMR	Yes	No	No	Yes	VZEQD7	Yes	No	No	Yes
R7VWLN	Yes	No	No	Yes	WCLZFM	Yes	No	No	Yes
RC2T6N	Yes	No	No	Yes	WW9RFJ	No Interpretations Reported, DNA Analyzed for Database purposes only.			
RRD8N7	Yes	No	No	Yes	XF2QJW	Yes	No	No	Yes
TDBVT8	Yes	No	No	Yes	XNXPUH	Yes	No	No	Yes
TH8LYJ	No Interpretations Reported, DNA Analyzed for Database purposes only.				XYTVP2	Yes	No	No	Yes
THL9B7	Yes	No	No	Yes	Y9YZDC	No Interpretations Reported, DNA Analyzed for Database purposes only.			
TUERPC	Yes	No	No	Yes	YE6U88	Yes	No	No	Yes
U4KWE8	Yes	No	No	Yes	YF2AJ6	Yes	No	No	Yes
U9B7P7	Yes	No	No	Yes	YRQ7JG	No Interpretations Reported, DNA Analyzed for Database purposes only.			
UAPRY8	Yes	No	No	Yes	YZ9FAY	Yes	No	No	Yes
UEGYJ2	Yes	No	No	Yes	Z2DMPW	Yes	No	No	Yes
UR3CVB	Yes	No	No	Yes	Z76U97	Yes	No	No	Yes
UTHCEZ	Yes	No	No	Yes	Z79DXU	Yes	No	No	Yes
UVM47D	Yes	No	No	Yes	ZEJFJU	Yes	No	No	Yes
UWHM9E	Yes	No	No	Yes	ZFEYKW	Yes	No	No	Yes
VKMW32	Yes	No	No	Yes	ZQCYXZ	Yes	No	No	Yes
					ZUXNHD	Yes	No	No	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
ZY6EKJ	Yes	No	No	Yes					

**Response Summary****Participants reporting DNA results: 125**

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

Responses	Victim (Item 1)		Suspect (Item 2)	
	<u>Item 3</u>	<u>Item 4</u>	<u>Item 3</u>	<u>Item 4</u>
	Yes	<b>99</b>	<b>0</b>	<b>0</b>
No	<b>0</b>	<b>99</b>	<b>99</b>	<b>0</b>
Inc	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Participants not reporting Interpretation results: 26**

# Additional Comments

## TABLE 5

WebCode	Additional Comments
6KAJC9	Y-STR analysis was not performed on Item 1 as it was a female reference sample. Y-STR analysis was not performed on Item 3 as no male DNA was detected in this sample during quantitation.
7BYGQ8	Item 1 and Item 3 not processed with Yfiler because no male DNA was detected at the quant stage.
AFH6EZ	Samples 3 and 4 were not analyzed 16-049E, 16-583, EXP-160502-01 PTS000071 is Sample 1 PTS000072 is Sample 2
B9YYGU	Database laboratory; therefore only Items 1 and 2 were examined.
CTFWBP	It is noted that the first three items were done with identifiler and the last time on profiler plus.
D9D9JT	1) Item 1 and Item 2 were extracted using the in-situ extraction method. 2) Item 3 and Item 4 were extracted using the Chelex method and quantification was carried out using the Quantifiler Human DNA Quantification kit. 3) Y-STR was carried out for Item 2 and Item 4 using the AmpFiSTR Y-Filer kit. 4) Electrophoresis was carried out using 3130xl Genetic Analyzer. 5) Reagent Blank, Positive Control and Negative Control were also incorporated throughout the analysis. 6) Item 3 and Item 4 were amplified using Identifiler Plus STR kit. 7) Item 1 and Item 2 were amplified using Identifiler Direct STR kit.
DR6DPY	Sample CTS16_583C_1 Detected data is below 160 RFU stochastic threshold at loci TH01, D2, and TPOX. All of the aforementioned loci are heterozygous and all peaks are above the 75 RFU analytical threshold. No additional peaks were detected at these loci.
K6QYAU	Item 3 was not run with Y-filer as there was no indication of male DNA in the quant or GlobalFiler results.
LGDMKJ	1)Item 1 and Item 2 were extracted using in-situ extraction method. 2)Item 1 and Item 2 were directly amplified using Identifiler Direct. 3)Item 3 and Item 4 were extracted by DNA IQ (Tecan EVO)and quantification was carried out using the Quantifiler Human DNA Quantification Kit. 4)Item 3 and Item 4 were amplified using Identifiler Plus STR Kit. 5)Y-STR analysis was carried out on item 2 and item 4 using the AmpFiSTR Y-Filer Kit. 6)Electrophoresis was carried out using 3130X1 Genetic Analyzer. 7)Reagent Blank, Positive and Negative Control were also incorporated throughout the analysis.
MCDYGG	Database Laboratory; therefore only Items 1 and 2 were examined.
N3RU9H	1. Item 1 and Item 2 were amplified using Identifiler Direct kit. 2. Item 3 and Item 4 were extracted using DNA IQ Extraction kit via Tecan Freedom Evo 150. 3. Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification kit from Applied Biosystem and carried out on 7500 Real Time PCR System. 4. Only Item 2 and Item 4 were amplified using Y-filer PCR kit. 5. Item 3 and Item 4 were amplified using AmpFISTR Identifiler Plus. 6. Electrophoresis for all items was carried out on Genetic Analyzer 3130XL. 7. Reagent blank, Positive control and Negative control were carried out along with the analysis.
PAMCYE	NR=No Reaction
RRD8N7	- The blood stain on item 3 refer to the victim (item 1). - The blood stain on item 4 refer to the suspect (item 2)
TDBVT8	NR = No Reaction
UR3CVB	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.

TABLE 5

WebCode	Additional Comments
VUNF49	Database Laboratory; therefore only Items 1 and 2 were examined.
YF2AJ6	NR=NO REACTION
YZ9FAY	NR=No Result
Z76U97	1) Item 1 and Item 2 were extracted using the in-situ extraction method. 2) Item 3 and Item 4 were extracted using the Chelex method and quantification was carried out using the Quantifiler Human DNA Quantification kit. 3) Item 1 and Item 2 were amplified using Identifiler Direct STR kit. 4) Item 3 and Item 4 were amplified using Identifiler Plus STR kit. 5) Y-STR analysis was carried out on Item 2 and Item 4 using AmpFISTR Y-Filer kit. 6) Reagent Blank, Positive Control and Negative Control were also incorporated throughout the analysis. 7) Electrophoresis was carried out using 3130xL Genetic Analyzer.

# Appendix: Data Sheet

Collaborative Testing Services ~ Forensic Testing Program

## Test No. 16-583: DNA-Blood

DATA MUST BE RECEIVED BY June 20, 2016 TO BE INCLUDED IN THE REPORT

Participant Code:

WebCode:

### Accreditation Release Statement

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

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

#### Scenario:

Police are investigating the homicide of a female victim. Her last known communication with her roommate indicated that she was having dinner at the apartment of a man she had met while online dating. Her remains were recovered from the city dump three days later. A review of the victim's online dating profile identified the suspect as a person of interest. A search of the suspect's apartment building recovered a stained red & white checkered tablecloth from a sealed plastic bag in the building's dumpster. The autopsy of the victim revealed that she had been gagged with a cream-colored tea towel, which was recovered from her mouth. The victim's cause of death was ruled as asphyxia and there was no apparent bleeding in her mouth or nose, however red stains were noted on the towel. Screening has been performed on both evidence samples with the following results: Item 3 (the checkered tablecloth) and Item 4 (the towel recovered from the victim's mouth) were both positive for blood. The screening lab is submitting these samples (Items 3 and 4) along with the known blood samples of the victim and the suspect.

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

- Item 1: Known blood from the female victim
- Item 2: Known blood from the male suspect
- Item 3: Questioned stain from the tablecloth (red & white checkered material)
- Item 4: Questioned stain from the tea towel (cream terry cloth material)

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

Page 1 of 8

Participant Code:  
WebCode:

**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 procedures for reporting homozygotes (i.e. X,X or X).

**Additional DNA Results:**

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

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



Participant Code:  
WebCode:

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

**STR Amplification Kit(s) Used For Item 1:** Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. Plus, Direct, 16 HS, etc.)

COfiler®/Profiler Plus® \_\_\_\_\_  PowerPlex® \_\_\_\_\_

Identifiler® \_\_\_\_\_  Other \_\_\_\_\_

<b>ITEM</b>	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
<b>1</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>ITEM</b>	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
<b>1</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>ITEM</b>	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
<b>1</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>ITEM</b>	Penta D	Penta E	SE33	TH01	TPOX	vWA
<b>1</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**YSTR Amplification Kit(s) Used For Item 1:** 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>	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
<b>1</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"/>

<b>ITEM</b>	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
<b>1</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"/>

<b>ITEM</b>	DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	Y Indel
<b>1</b>	<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.**

Participant Code:  
WebCode:

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

**STR Amplification Kit(s) Used For Item 2:** Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. Plus, Direct, 16 HS, etc.)

COfiler®/Profiler Plus® \_\_\_\_\_  PowerPlex® \_\_\_\_\_

Identifiler® \_\_\_\_\_  Other \_\_\_\_\_

<b>ITEM</b>	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
<b>2</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>ITEM</b>	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
<b>2</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>ITEM</b>	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
<b>2</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>ITEM</b>	Penta D	Penta E	SE33	TH01	TPOX	vWA
<b>2</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**YSTR Amplification Kit(s) Used For Item 2:** 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>	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
<b>2</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"/>

<b>ITEM</b>	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
<b>2</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"/>

<b>ITEM</b>	DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	Y Indel
<b>2</b>	<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.**

Participant Code:  
WebCode:

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

**STR Amplification Kit(s) Used For Item 3:** Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. Plus, Direct, 16 HS, etc.)

COfiler®/Profiler Plus® \_\_\_\_\_  PowerPlex® \_\_\_\_\_

Identifiler® \_\_\_\_\_  Other \_\_\_\_\_

<b>ITEM</b>	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
<b>3</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>ITEM</b>	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
<b>3</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>ITEM</b>	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
<b>3</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>ITEM</b>	Penta D	Penta E	SE33	TH01	TPOX	vWA
<b>3</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**YSTR Amplification Kit(s) Used For Item 3:** 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>	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"/>

<b>ITEM</b>	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
<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"/>

<b>ITEM</b>	DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	Y Indel
<b>3</b>	<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.**

Participant Code:  
WebCode:

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

**STR Amplification Kit(s) Used For Item 4:** Please check all the brands that apply for this item and record only additional kit specific information in the blank provided (i.e. Plus, Direct, 16 HS, etc.)

COfiler®/Profiler Plus® \_\_\_\_\_  PowerPlex® \_\_\_\_\_

Identifiler® \_\_\_\_\_  Other \_\_\_\_\_

<b>ITEM</b>	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
<b>4</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>ITEM</b>	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
<b>4</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>ITEM</b>	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
<b>4</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>ITEM</b>	Penta D	Penta E	SE33	TH01	TPOX	vWA
<b>4</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**YSTR Amplification Kit(s) Used For Item 4:** 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>	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"/>

<b>ITEM</b>	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
<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"/>

<b>ITEM</b>	DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	Y Indel
<b>4</b>	<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.**

Participant Code:  
WebCode:

**Part II: DNA INTERPRETATION**

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

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

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

**Part III: ADDITIONAL COMMENTS**

Comments regarding any part of this Forensic Biology Test.

*Written conclusions (including statistical information) for DNA analysis are not required.*

*Any interpretations based on the results obtained should be indicated above.*

*Note: Laboratories submitting their results for ASCLD/LAB accreditation are asked to report any additional information that will assist in the review of their results. This includes an explanation of any deviations from a full completion of the test and/or unique findings such as elevated stutter.*

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<p><b><u>Return Instructions:</u></b> Data must be received via online data entry, fax (please include a cover sheet), or mail by <b>June 20, 2016</b> to be included in the report. Emailed data sheets are not accepted.</p> <p>QUESTIONS?  TEL: +1-571-434-1925 (8 am - 4:30 pm EST)  EMAIL: forensics@cts-interlab.com  www.ctsforensics.com</p>	<p>Participant Code:</p> <p>ONLINE DATA ENTRY: <a href="http://www.cts-portal.com">www.cts-portal.com</a>  FAX: +1-571-434-1937  MAIL: Collaborative Testing Services, Inc.  P.O. Box 650820  Sterling, VA 20165-0820 USA</p>
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**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. **16-583: DNA-Blood**

This release page must be completed and received by **June 20, 2016** to have this participant's submitted data included in the reports forwarded to the respective Accreditation Bodies.

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

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

**ASCLD/LAB** Certificate No. \_\_\_\_\_

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

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

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

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

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

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

**Accreditation Release****Return Instructions**

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

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

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

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