



## **DNA Database - Saliva Test No. 16-5843/5844/5845 Summary Report**

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This proficiency test was sent to 126 participants. Each participant received a sample pack consisting of three buccal saliva standards which they were requested to analyze using their existing protocols. Data were returned from 95 participants (75% 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 set was a collection of known buccal cells from three individuals (Items 1-3), provided on either Indicating FTA Micro Cards, Bode Buccal DNA Collectors, or Puritan CapSure swabs. Participants were requested to analyze these items using their existing protocols.

**SAMPLE PREPARATION:** All substrates were prepared from human buccal cheek cells suspended in sterile phosphate-buffered saline solution. The Indicating FTA Micro Cards were spotted with 120  $\mu$ l of the cell suspension, the Bode Buccal DNA Collectors were spotted with 400  $\mu$ l of the cell suspension, and the Puritan CapSure swabs were spotted with 200  $\mu$ l of the cell suspension. Within each set of collectors, Items 1 and 3 were created using different male donors, and Item 2 was created using a female donor. Each different Item was prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on August 1st, 2016.

**SAMPLE SET ASSEMBLY:** For each sample set, all three Items (1-3) were placed in a pre-labeled sample pack envelope. The sealed sample pack envelopes were then packaged in pre-labeled Heat Seal envelopes and sealed. This process was repeated until all of the sample sets were prepared.

**VERIFICATION:** Laboratories that conducted predistribution analysis of the samples reported consistent 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	11,12	16,24	14,14	16,18	11,11	10,13
	10,11	13,15	19,3,23	11,14	13,13	14,14
	14,15	28,29	15,16	X,Y	11,12	20,2,22,2
	13,13	17,18	26,2,33,2	6,9	8,8	15,20
2	16,16,3	19,20	10,14	16,17	11,12	10,11
	13,13	14,14	22,22	8,11	10,14	11,17
	14,14	30,31	15,16	X,X	12,13	24,25
	11,12	5,7	24,2,28,2	6,9	8,8	16,16
3	11,16	23,25	10,11	16,18	13,14	10,11
	13,15	13,15	18,21	12,12	9,13	14,16
	14,14	30,30	11,16	X,Y	11,11	21,22
	9,11	13,17	26,2,27,2	8,9	10,11	15,17

### 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>	
1	16	11,16	13	30	25	11	11	13
	14	11	10	20	15	15	*	*
	*	*	*	25	*	13	*	
3	14	11,14	13	28	23	11	13	13
	15	12	13	19	16	15	*	*
	*	*	*	23	*	11	*	

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

## **Summary Comments**

The 16-5843/5844/5845 DNA Database - Saliva test was designed to allow participants to assess their proficiency in the analysis of buccal samples by means of DNA profiling. Each sample pack consisted of three buccal saliva database standard samples collected from different individuals. Items 1 and 3 were created using oral epithelial cells collected from male donors, and Item 2 was created using oral epithelial cells collected from a female donor. (See Manufacturer's Information for preparation details)

This test was offered on one of three buccal collection substrates: the Indicating FTA Micro Cards, the Bode Buccal DNA Collectors, and the Puritan CapSure swabs. Out of the 95 participants that returned data, 29.5% reported results from the Indicating FTA Micro Cards, 47.4% reported results from the Bode Buccal DNA Collectors, and 23.1% reported results from the Puritan CapSure swabs. While the majority of laboratories reported results for only one of the three collection substrates, two laboratories reported results for two substrates; one for both the FTA Micro Cards and the Puritan CapSure swabs, and one for both the FTA Micro Cards and the Bode Buccal DNA Collectors.

DNA results were returned by a total of 95 participants. One participant reported allelic results that differed from the consensus/predistribution testing results. This participant reported inconsistent alleles at one locus.

# STR Results

TABLE 1

WebCode (Test)	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

29WK4X (5844)	1	<i>Identifiler® Direct</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
			6,9	8,8	15,20		
2AR46Y (5844)	1	<i>Identifiler® Plus</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
			6,9	8,8	15,20		
2CWMDT (5845)	1	<i>PowerPlex® Fusion</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		13	17,18	6,9	8	15,20	
33MH23 (5845)	1	<i>GlobalFiler Express</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		26.2,33.2	6,9	8	15,20		
3AM7AU (5844)	1	<i>Identifiler® Plus</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
			6,9	8,8	15,20		
3JQC83 (5845)	1	<i>GlobalFiler Express</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		26.2,33.2	6,9	8	15,20		
3Y26RY (5845)	1	<i>Identifiler® Plus</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
			6,9	8,8	15,20		

TABLE 1

WebCode (Test)	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

3ZWK4V (5844)	1	<i>Identifiler® PLUS</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
			6,9	8,8	15,20		
4N4C6U (5845)	1	<i>PowerPlex® 18D</i>					
			16,24		16,18	11	10,13
		10,11			11,14	13	14
		14,15	28,29		X,Y	11,12	20.2,22.2
	13	17,18		6,9	8	15,20	
4V32LX (5843)	1	<i>PowerPlex® 16 HS</i>					
					16,18	11,11	10,13
		10,11			11,14	13,13	14,14
			28,29		X,Y	11,12	20.2,22.2
	13,13	17,18		6,9	8,8	15,20	
63ZTUR (5843)	1	<i>PowerPlex® Fusion 6C</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
	13	17,18	26.2,33.2	6,9	8	15,20	
647KDR (5844)	1	<i>Identifiler® Plus</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
			6,9	8,8	15,20		
6FN37Y (5845)	1	<i>Globalfiler</i>					
		11,12	16,24	14,14	16,18	11,11	10,13
		10,11	13,15	19.3,23	11,14	13,13	14,14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		26.2,33.2	6,9	8,8	15,20		
6RFNCU (5844)	1	<i>Identifiler® Direct, GlobalFiler Express</i>					
		11,12	16,24	14,14	16,18	11,11	10,13
		10,11	13,15	19.3,23	11,14	13,13	14,14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		26.2,33.2	6,9	8,8	15,20		

TABLE 1

WebCode (Test)	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

6XKJGN (5843)	1	<i>PowerPlex® Fusion</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		13	17,18		6,9	8	15,20
6ZQQXV (5844)	1	<i>Identifiler® Plus</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
			6,9	8,8	15,20		
6ZRN9Q (5844)	1	<i>Identifiler® Direct, GlobalFiler Express</i>					
		11,12	16,24	14,14	16,18	11,11	10,13
		10,11	13,15	19.3,23	11,14	13,13	14,14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
			26.2,33.2	6,9	8,8	15,20	
723ZAT (5843)	1	<i>PowerPlex® Fusion</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		13	17,18		6,9	8	15,20
7CJTEU (5844)	1	<i>Identifiler® Plus</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
			6,9	8,8	15,20		
7U2NDV (5845)	1	<i>PowerPlex® 18D</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
		13,13	17,18		6,9	8,8	15,20
7YWHBW (5843)	1	<i>PowerPlex® Fusion</i>					
		11,12	16,24	14,14	16,18	11,11	10,13
		10,11	13,15	19.3,23	11,14	13,13	14,14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		13,13	17,18		6,9	8,8	15,20

TABLE 1

WebCode (Test)	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

8VA62T (5844)	Identifiler® PLUS	1	16,24		16,18	11,11	10,13	
			10,11		11,14	13,13	14,14	
			14,15	28,29	X,Y	11,12	20.2,22.2	
					6,9	8,8	15,20	
9738JR (5844)	Identifiler® Plus	1	16,24		16,18	11,11	10,13	
			10,11		11,14	13,13	14,14	
			14,15	28,29	X,Y	11,12	20.2,22.2	
					6,9	8,8	15,20	
9NMPWM (5843)	Identifiler® Direct	1	16,24		16,18	11,11	10,13	
			10,11		11,14	13,13	14,14	
			14,15	28,29	X,Y	11,12	20.2,22.2	
					6,9	8,8	15,20	
A6V3RP (5844)	PowerPlex® Fusion	1	11,12	16,24	14	16,18	11	10,13
			10,11	13,15	19.3,23	11,14	13	14
			14,15	28,29	15,16	X,Y	11,12	20.2,22.2
			13	17,18		6,9	8	15,20
AFR9KN (5845)	PowerPlex® 18D	1	16,24		16,18	11	10,13	
			10,11		11,14	13	14	
			14,15	28,29	X,Y	11,12	20.2,22.2	
			13	17,18	6,9	8	15,20	
AX7R8T (5844)	GlobalFiler Express	1	11,12	16,24	14,14	16,18	11,11	10,13
			10,11	13,15	19.3,23	11,14	13,13	14,14
			14,15	28,29	15,16	X,Y	11,12	20.2,22.2
					26.2,33.2	6,9	8,8	15,20
B8T46R (5843)	PowerPlex® Fusion	1	11,12	16,24	14,14	16,18	11,11	10,13
			10,11	13,15	19.3,23	11,14	13,13	14,14
			14,15	28,29	15,16	X,Y	11,12	20.2,22.2
			13,13	17,18		6,9	8,8	15,20



TABLE 1

WebCode (Test)	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

BC378M (5844)	1	<i>Identifiler® Direct</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
					6,9	8,8	15,20
BCLAEM (5844)	1	<i>Identifiler® DIRECT</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
					6,9	8,8	15,20
BHAWAT (5844)	1	<i>Globalfiler</i>					
		11,12	16,24	14,14	16,18	11,11	10,13
		10,11	13,15	19.3,23	11,14	13,13	14,14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
				26.2,33.2	6,9	8,8	15,20
BPUQVQ (5843)	1	<i>PowerPlex® Fusion</i>					
		11,12	16,24	14,14	16,18	11,11	10,13
		10,11	13,15	19.3,23	11,14	13,13	14,14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		13,13	17,18		6,9	8,8	15,20
BVYMFQ (5845)	1	<i>PowerPlex® 18D</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
		13,13	17,18		6,9	8,8	15,20
C48QVN (5844)	1	<i>Identifiler® Plus</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
					6,9	8,8	15,20
CB742J (5843)	1	<i>Identifiler® Direct</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
					6,9	8,8	15,20

TABLE 1

WebCode (Test)	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

D2VB2M (5844)	1	<i>Identifiler® Direct</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
			6,9	8,8	15,20		
D3QT3N (5844)	1	<i>Identifiler® Plus</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
			6,9	8,8	15,20		
DH4FAK (5844)	1	<i>PowerPlex® Fusion</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22
		13	17,18	6,9	8	15,20	
EJUMAN (5844)	1	<i>PowerPlex® 18D</i>					
			16,24		16,18	11	10,13
		10,11			11,14	13	14
		14,15	28,29		X,Y	11,12	20.2,22.2
		13	17,18	6,9	8	15,20	
EL3Q7K (5844)	1	<i>PowerPlex® Fusion</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		13	17,18	6,9	8	15,20	
EYLKBJ (5844)	1	<i>Identifiler® PLUS</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
			6,9	8,8	15,20		
F69LDH (5844)	1	<i>PowerPlex® Fusion</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		13	17,18	6,9	8	15,20	

TABLE 1

WebCode (Test)	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

FD8BUL (5845)	1	<i>PowerPlex® 18D</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
		13,13	17,18		6,9	8,8	15,20
FH2A2L (5844)	1	<i>Identifiler® Plus</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
					6,9	8,8	15,20
G22RNB (5843)	1	<i>NGM Select</i>					
		11,12	16,24	14,14	16,18		
		10,11	13,15	19.3,23		13,13	14,14
		14,15	28,29	15,16	X,Y		20.2,22.2
				26.2,33.2	6,9		15,20
GAWUPM (5843)	1	<i>PowerPlex® FUSION, Globalfiler</i>					
		11,12	16,24	14,14	16,18	11,11	10,13
		10,11	13,15	19.3,23	11,14	13,13	14,14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		13,13	17,18	26.2,33.2	6,9	8,8	15,20
HDVHRF (5844)	1	<i>PowerPlex® Fusion</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		13	17,18		6,9	8	15,20
HZRZGF (5845)	1	<i>PowerPlex® 18D</i>					
			16,24		16,18	11	10,13
		10,11			11,14	13	14
		14,15	28,29		X,Y	11,12	20.2,22.2
		13	17,18		6,9	8	15,20
J3EX9J (5843)	1	<i>PowerPlex® Fusion</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		13	17,18		6,9	8	15,20

TABLE 1

WebCode (Test)	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

J6CN7H (5844)	1	<i>Identifiler® DIRECT</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
					6,9	8,8	15,20
JJGXWD (5844)	1	<i>PowerPlex® Fusion</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		13	17,18		6,9	8	15,20
KFRVHC (5844)	1	<i>Identifiler® Direct</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
					6,9	8,8	15,20
KFX3TK (5845)	1	<i>GlobalFiler Express, GlobalFiler</i>					
		11,12	16,24	14,14	16,18	11,11	10,13
		10,11	13,15	19.3,23	11,14	13,13	14,14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
				26.2,33.2	6,9	8,8	15,20
KTHHWK (5845)	1	<i>GlobalFiler Express</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
				26.2,33.2	6,9	8	15,20
KYAPGE (5844)	1	<i>PowerPlex® Fusion</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		13	17,18		6,9	8	15,20
KZG8FA (5845)	1	<i>PowerPlex® Fusion</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		13	17,18		6,9	8	15,20

TABLE 1

WebCode (Test)	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

L8WE7D (5844)	1	<i>Identifiler® Plus, GlobalFiler Express</i>					
		11,12	16,24	14,14	16,18	11,11	10,13
		10,11	13,15	19.3,23	11,14	13,13	14,14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
				26.2,33.2	6,9	8,8	15,20
LPDA6F (5843)	1	<i>PowerPlex® Fusion</i>					
		11,12	16,24	14,14	16,18	11,11	10,13
		10,11	13,15	19.3,23	11,14	13,13	14,14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		13,13	17,18		6,9	8,8	15,20
LPW3XC (5844)	1	<i>Identifiler® Plus</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
					6,9	8,8	15,20
LQP92A (5843)	1	<i>Globalfiler</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
				26.2,33.2	6,9	8	15,20
LRKR4B (5843)	1	<i>AmpFLSTR, NGM Select Express PCR</i>					
		11,12	16,24	14,14	16,18	n/a	n/a
		10,11	13,15	19.3,23	n/a	13,13	14,14
		14,15	28,29	15,16	X,Y	n/a	20.2,22.2
		n/a	n/a	26.2,33.2	6,9	n/a	15,20
LWUU77 (5843)	1	<i>PowerPlex® ESX-17</i>					
		11,12	16,24	14,14	16,18		
		10,11	13,15	19.3,23		13,13	14,14
		14,15	28,29	15,16	X,Y		20.2,22.2
				26.2,33.2	6,9		15,20
MRFU97 (5845)	1	<i>Globalfiler</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
				26.2,33.2	6,9	8	15,20

TABLE 1

WebCode (Test)	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

MYE7HG (5843)	1	<i>GlobalFiler Express</i>					
		11,12	16,24	14,14	16,18	11,11	10,13
		10,11	13,15	19.3,23	11,14	13,13	14,14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
			26.2,33.2	6,9	8,8	15,20	
NJ6RM6 (5845)	1	<i>PowerPlex® Fusion</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
	13	17,18		6,9	8	15,20	
PA9CB7 (5843)	1	<i>Globalfiler</i>					
			16,24		16,18	11	10,13
		10,11			11,14	13	14
		14,15	28,29		X,Y	11,12	20.2,22.2
			6,9	8	15,20		
PJJEW7 (5843)	1	<i>PowerPlex® Fusion 6C</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
	13	17,18	26.2,33.2	6,9	8	15,20	
PMX9C4 (5843)	1	<i>PowerPlex® Fusion</i>					
		11,12	16,24	14,14	16,18	11,11	10,13
		10,11	13,15	19.3,23	11,14	13,13	14,14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
	13,13	17,18		6,9	8,8	15,20	
PTJB99 (5844)	1	<i>Identifiler® Plus</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
			6,9	8,8	15,20		
PUWKLF (5843)	1	<i>Globalfiler</i>					
		11,12	16,24	14,14	16,18	11,11	10,13
		10,11	13,15	19.3,23	11,14	13,13	14,14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
			26.2,33.2	6,9	8,8	15,20	

TABLE 1

WebCode (Test)	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

Q2A7UA (5843)	1	<i>PowerPlex® Fusion</i>					
		11,12	16,24	14,14	16,18	11,11	10,13
		10,11	13,15	19.3,23	11,14	13,13	14,14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		13,13	17,18		6,9	8,8	15,20
QDMH2C (5843)	1	<i>Identifiler® PLUS</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
			6,9	8,8	15,20		
QV4DZE (5845)	1	<i>GlobalFiler Express</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
			26.2,33.2	6,9	8	15,20	
RTDF38 (5844)	1	<i>Identifiler® Direct</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
			6,9	8,8	15,20		
RYKAW3 (5844)	1	<i>Identifiler® Plus</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
			6,9	8,8	15,20		
TFPQR9 (5843)	1	<i>PowerPlex® Fusion</i>					
		11,12	16,24	14,14	16,18	11,11	10,13
		10,11	13,15	19.3,23	11,14	13,13	14,14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		13,13	17,18		6,9	8,8	15,20
TLQC9A (5844)	1	<i>Identifiler® Direct</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
			6,9	8,8	15,20		

TABLE 1

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

Item 1 - STR Results

TPVVG4 (5844)	1	PowerPlex® Fusion	11,12	16,24	14	16,18	11	10,13
			10,11	13,15	19.3,23	11,14	13	14
			14,15	28,29	15,16	X,Y	11,12	20.2,22.2
			13	17,18		6,9	8	15,20
TUM3ZC (5845)	1	GlobalFiler Express	11,12	16,24	14	16,18	11	10,13
			10,11	13,15	19.3,23	11,14	13	14
			14,15	28,29	15,16	X,Y	11,12	20.2,22.2
					26.2,33.2	6,9	8	15,20
UERZYY (5843)	1	Identifiler® Direct		16,24		16,18	11,11	10,13
			10,11			11,14	13,13	14,14
			14,15	28,29		X,Y	11,12	20.2,22.2
						6,9	8,8	15,20
UMFXE7 (5844)	1	Identifiler® Direct		16,24		16,18	11,11	10,13
			10,11			11,14	13,13	14,14
			14,15	28,29		X,Y	11,12	20.2,22.2
						6,9	8,8	15,20
VVU6Y (5843)	1	PowerPlex® Fusion	11,12	16,24	14	16,18	11	10,13
			10,11	13,15	19.3,23	11,14	13	14
			14,15	28,29	15,16	X,Y	11,12	20.2,22.2
			13	17,18		6,9	8	15,20
W6ADR3 (5844)	1	Identifiler® PLUS		16,24		16,18	11,11	10,13
			10,11			11,14	13,13	14,14
			14,15	28,29		X,Y	11,12	20.2,22.2
						6,9	8,8	15,20
W8ZAP9 (5845)	1	GlobalFiler Express	11,12	16,24	14	16,18	11	10,13
			10,11	13,15	19.3,23	11,14	13	14
			14,15	28,29	15,16	X,Y	11,12	20.2,22.2
					26.2,33.2	6,9	8	15,20



TABLE 1

WebCode (Test)	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

WDPY27 (5844)	1	<i>PowerPlex® 18D</i>					
			16,24		16,18	11	10,13
		10,11			11,14	13	14
		14,15	28,29		X,Y	11,12	20.2,22.2
		13	17,18		6,9	8	15,20
WHYCH6 (5844)	1	<i>Identifiler® Plus</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
					6,9	8,8	15,20
WUEXDY (5843)	1	<i>Identifiler® Direct</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
					6,9	8,8	15,20
XAKQAZ (5844)	1	<i>Identifiler® DIRECT</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
					6,9	8,8	15,20
XCUQE8 (5845)	1	<i>GlobalFiler Express</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
				26.2,33.2	6,9	8	15,20
XDJ26Z (5844)	1	<i>Identifiler® DIRECT</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
					6,9	8,8	15,20
XDZ9D4 (5845)	1	<i>GlobalFiler Express</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
				26.2,33.2	6,9	8	15,20

TABLE 1

WebCode (Test)	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

XLHG2Z (5845)	1	<i>PowerPlex® 18D</i>					
			16,24		16,18	11	10,13
		10,11			11,14	13	14
		14,15	28,29		X,Y	11,12	20.2,22.2
		13	17,18		6,9	8	15,20
YJ76W4 (5843)	1	<i>PowerPlex® Fusion</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		13	17,18		6,9	8	15,20
YPCXQY (5844)	1	<i>PowerPlex® Fusion</i>					
		11,12	16,24	14	16,18	11	10,13
		10,11	13,15	19.3,23	11,14	13	14
		14,15	28,29	15,16	X,Y	11,12	20.2,22.2
		13	17,18		6,9	8	15,20
YZNAX2 (5844)	1	<i>Identifiler® Direct</i>					
			16,24		16,18	11,11	10,13
		10,11			11,14	13,13	14,14
		14,15	28,29		X,Y	11,12	20.2,22.2
					6,9	8,8	15,20

TABLE 1

WebCode (Test)	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

29WK4X (5844)	2	<i>Identifiler® Direct</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
			6,9	8,8	16,16		
2AR46Y (5844)	2	<i>Identifiler® Plus</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
			6,9	8,8	16,16		
2CWMDT (5845)	2	<i>PowerPlex® Fusion</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X	12,13	24,25
		11,12	5,7	6,9	8	16	
33MH23 (5845)	2	<i>GlobalFiler Express</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X	12,13	24,25
			24.2,28.2	6,9	8	16	
3AM7AU (5844)	2	<i>Identifiler® Plus</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
			6,9	8,8	16,16		
3JQC83 (5845)	2	<i>GlobalFiler Express</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X	12,13	24,25
			24.2,28.2	6,9	8	16	
3Y26RY (5845)	2	<i>Identifiler® Plus</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
			6,9	8,8	16,16		

TABLE 1

WebCode (Test)	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

3ZWK4V (5844)	Identifiler® PLUS	2	19,20		16,17	11,12	10,11
			13,13		8,11	10,14	11,17
			14,14	30,31	X,X	12,13	24,25
					6,9	8,8	16,16
4N4C6U (5845)	PowerPlex® 18D	2	19,20		16,17	11,12	10,11
			13		8,11	10,14	11,17
			14	30,31	X	12,13	24,25
			11,12	5,7	6,9	8	16
4V32LX (5843)	PowerPlex® 16 HS	2			16,17	11,12	10,11
			13,13		8,11	10,14	11,17
				30,31	X,X	12,13	24,25
			11,12	5,7	6,9	8,8	16,16
63ZTUR (5843)	PowerPlex® FUSION 6C	2	16,16.3	19,20	10,14	16,17	11,12
			13	14	22	8,11	10,14
			14	30,31	15,16	X	12,13
			11,12	5,7	24.2,28.2	6,9	8
647KDR (5844)	Identifiler® Plus	2	19,20		16,17	11,12	10,11
			13,13		8,11	10,14	11,17
			14,14	30,31	X,X	12,13	24,25
					6,9	8,8	16,16
6FN37Y (5845)	Globalfiler	2	16,16.3	19,20	10,14	16,17	11,12
			13,13	14,14	22,22	8,11	10,14
			14,14	30,31	15,16	X,X	12,13
					24.2,28.2	6,9	8,8
6RFNCU (5844)	Identifiler® Direct, GlobalFiler Express	2	16,16.3	19,20	10,14	16,17	11,12
			13,13	14,14	22,22	8,11	10,14
			14,14	30,31	15,16	X,X	12,13
					24.2,28.2	6,9	8,8

TABLE 1

WebCode (Test)	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

6XKJGN (5843)	2	<i>PowerPlex® Fusion</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X,X	12,13	24,25
		11,12	5,7		6,9	8	16
6ZQQXV (5844)	2	<i>Identifiler® Plus</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
					6,9	8,8	16,16
6ZRN9Q (5844)	2	<i>Identifiler® Direct, GlobalFiler Express</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13,13	14,14	22,22	8,11	10,14	11,17
		14,14	30,31	15,16	X,X	12,13	24,25
				24.2,28.2	6,9	8,8	16,16
723ZAT (5843)	2	<i>PowerPlex® Fusion</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X	12,13	24,25
		11,12	5,7		6,9	8	16
7CJTEU (5844)	2	<i>Identifiler® Plus</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
					6,9	8,8	16,16
7U2NDV (5845)	2	<i>PowerPlex® 18D</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
		11,12	5,7		6,9	8,8	16,16
7YWHBW (5843)	2	<i>PowerPlex® Fusion</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13,13	14,14	22,22	8,11	10,14	11,17
		14,14	30,31	15,16	X,X	12,13	24,25
		11,12	5,7		6,9	8,8	16,16

TABLE 1

WebCode (Test)	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

8VA62T (5844)	Identifiler® PLUS	2	19,20		16,17	11,12	10,11	
			13,13		8,11	10,14	11,17	
			14,14	30,31	X,X	12,13	24,25	
					6,9	8,8	16,16	
9738JR (5844)	Identifiler® Plus	2	19,20		16,17	11,12	10,11	
			13,13		8,11	10,14	11,17	
			14,14	30,31	X,X	12,13	24,25	
					6,9	8,8	16,16	
9NMPWM (5843)	Identifiler® Direct	2	19,20		16,17	11,12	10,11	
			13,13		8,11	10,14	11,17	
			14,14	30,31	X,X	12,13	24,25	
					6,9	8,8	16,16	
A6V3RP (5844)	PowerPlex® Fusion	2	16,16.3	19,20	10,14	16,17	11,12	10,11
			13	14	22	8,11	10,14	11,17
			14	30,31	15,16	X	12,13	24,25
			11,12	5,7		6,9	8	16
AFR9KN (5845)	PowerPlex® 18D	2	19,20		16,17	11,12	10,11	
			13		8,11	10,14	11,17	
			14	30,31	X	12,13	24,25	
			11,12	5,7	6,9	8	16	
AX7R8T (5844)	GlobalFiler Express	2	16,16.3	19,20	10,14	16,17	11,12	10,11
			13,13	14,14	22,22	8,11	10,14	11,17
			14,14	30,31	15,16	X,X	12,13	24,25
					24,2,28,2	6,9	8,8	16,16
B8T46R (5843)	PowerPlex® Fusion	2	16,16.3	19,20	10,14	16,17	11,12	10,11
			13,13	14,14	22,22	8,11	10,14	11,17
			14,14	30,31	15,16	X,X	12,13	24,25
			11,12	5,7		6,9	8,8	16,16

TABLE 1

WebCode (Test)	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

BC378M (5844)	2	<i>Identifiler® Direct</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
					6,9	8,8	16,16
BCLAEM (5844)	2	<i>Identifiler® DIRECT</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
					6,9	8,8	16,16
BHAWAT (5844)	2	<i>Globalfiler</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13,13	14,14	22,22	8,11	10,14	11,17
		14,14	30,31	15,16	X,X	12,13	24,25
				24.2,28.2	6,9	8,8	16,16
BPUQVQ (5843)	2	<i>PowerPlex® Fusion</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13,13	14,14	22,22	8,11	10,14	11,17
		14,14	30,31	15,16	X,X	12,13	24,25
		11,12	5,7		6,9	8,8	16,16
BVYMFQ (5845)	2	<i>PowerPlex® 18D</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
		11,12	5,7		6,9	8,8	16,16
C48QVN (5844)	2	<i>Identifiler® PLUS</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
					6,9	8,8	16,16
CB742J (5843)	2	<i>Identifiler® Direct</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
					6,9	8,8	16,16

TABLE 1

WebCode (Test)	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

D2VB2M (5844)	2	<i>Identifiler® Direct</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
			6,9	8,8	16,16		
D3QT3N (5844)	2	<i>Identifiler® Plus</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
			6,9	8,8	16,16		
DH4FAK (5844)	2	<i>PowerPlex® Fusion</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X	12,13	24,25
		11,12	5,7	6,9	8	16	
EJUMAN (5844)	2	<i>PowerPlex® 18D</i>					
			19,20		16,17	11,12	10,11
		13			8,11	10,14	11,17
		14	30,31		X	12,13	24,25
		11,12	5,7	6,9	8	16	
EL3Q7K (5844)	2	<i>PowerPlex® Fusion</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X	12,13	24,25
		11,12	5,7	6,9	8	16	
EYLKBJ (5844)	2	<i>Identifiler® PLUS</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
			6,9	8,8	16,16		
F69LDH (5844)	2	<i>PowerPlex® Fusion</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X,X	12,13	24,25
		11,12	5,7	6,9	8	16	



TABLE 1

WebCode (Test)	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

FD8BUL (5845)	2	<i>PowerPlex® 18D</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
		11,12	5,7		6,9	8,8	16,16
FH2A2L (5844)	2	<i>Identifiler® Plus</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
					6,9	8,8	16,16
G22RNB (5843)	2	<i>NGM Select</i>					
		16,16.3	19,20	10,14	16,17		
		13,13	14,14	22,22		10,14	11,17
		14,14	30,31	15,16	X,X		24,25
				24.2,28.2	6,9		16,16
GAWUPM (5843)	2	<i>PowerPlex® FUSION, Globalfiler</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13,13	14,14	22,22	8,11	10,14	11,17
		14,14	30,31	15,16	X	12,13	24,25
		11,12	5,7	24.2,28.2	6,9	8,8	16,16
HDVHRF (5844)	2	<i>PowerPlex® Fusion</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X	12,13	24,25
		11,12	5,7		6,9	8	16
HZRZGF (5845)	2	<i>PowerPlex® 18D</i>					
			19,20		16,17	11,12	10,11
		13			8,11	10,14	11,17
		14	30,31		X	12,13	24,25
		11,12	5,7		6,9	8	16
J3EX9J (5843)	2	<i>PowerPlex® Fusion</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X	12,13	24,25
		11,12	5,7		6,9	8	16

TABLE 1

WebCode (Test)	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

J6CN7H (5844)	2	<i>Identifiler® DIRECT</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
			6,9	8,8	16,16		
JJGXD (5844)	2	<i>PowerPlex® Fusion</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X,X	12,13	24,25
	11,12	5,7		6,9	8	16	
KFRVHC (5844)	2	<i>Identifiler® Direct</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
			6,9	8,8	16,16		
KFX3TK (5845)	2	<i>GlobalFiler Express, GlobalFiler</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13,13	14,14	22,22	8,11	10,14	11,17
		14,14	30,31	15,16	X,X	12,13	24,25
			24,2,28,2	6,9	8,8	16,16	
KTHHWK (5845)	2	<i>GlobalFiler Express</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X	12,13	24,25
			24,2,28,2	6,9	8	16	
KYAPGE (5844)	2	<i>PowerPlex® Fusion</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X	12,13	24,25
	11,12	5,7		6,9	8	16	
KZG8FA (5845)	2	<i>PowerPlex® Fusion</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X	12,13	24,25
	11,12	5,7		6,9	8	16	

TABLE 1

WebCode (Test)	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

L8WE7D (5844)	2	<i>Identifiler® Plus, GlobalFiler Express</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13,13	14,14	22,22	8,11	10,14	11,17
		14,14	30,31	15,16	X,X	12,13	24,25
				24.2,28.2	6,9	8,8	16,16
LPDA6F (5843)	2	<i>PowerPlex® Fusion</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13,13	14,14	22,22	8,11	10,14	11,17
		14,14	30,31	15,16	X,X	12,13	24,25
		11,12	5,7		6,9	8,8	16,16
LPW3XC (5844)	2	<i>Identifiler® Plus</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
					6,9	8,8	16,16
LQP92A (5843)	2	<i>Globalfiler</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X	12,13	24,25
				24.2,28.2	6,9	8	16
LRKR4B (5843)	2	<i>AmpFLSTR, NGM Select Express PCR</i>					
		16,16.3	19,20	10,14	16,17	n/a	n/a
		13,13	14,14	22,22	n/a	10,14	11,17
		14,14	30,31	15,16	X,X	n/a	24,25
		n/a	n/a	24.2,28.2	6,9	n/a	16,16
LWUU77 (5843)	2	<i>Investigator ESSplex SE Plus</i>					
		16,16.3	19,20	10,14	16,17		
		13,13	14,14	22,22		10,14	11,17
		14,14	30,31	15,16	X,X		24,25
				24.2,28.2	6,9		16,16
MRFU97 (5845)	2	<i>Globalfiler</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X	12,13	24,25
				24.2,28.2	6,9	8	16

TABLE 1

WebCode (Test)	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

MYE7HG (5843)	2	<i>GlobalFiler Express</i>						
		16,16.3	19,20	10,14	16,17	11,12	10,11	
		13,13	14,14	22,22	8,11	10,14	11,17	
		14,14	30,31	15,16	X,X	12,13	24,25	
			24.2,28.2	6,9	8,8	16,16		
NJ6RM6 (5845)	2	<i>PowerPlex® Fusion</i>						
		16,16.3	19,20	10,14	16,17	11,12	10,11	
		13	14	22	8,11	10,14	11,17	
		14	30,31	15,16	X	12,13	24,25	
			11,12	5,7	6,9	8	16	
PA9CB7 (5843)	2	<i>Globalfiler</i>						
		16,16.3	19,20	10,14	16,17	11,12	10,11	
		13	14	22	8,11	10,14	11,17	
		14	30,31	15,16	X	12,13	24,25	
			24.2,28.2	6,9	8	16		
PJJEW7 (5843)	2	<i>PowerPlex® Fusion 6C</i>						
		16,16.3	19,20	10,14	16,17	11,12	10,11	
		13	14	22	8,11	10,14	11,17	
		14	30,31	15,16	X	12,13	24,25	
			11,12	5,7	24.2,28.2	6,9	8	16
PMX9C4 (5843)	2	<i>PowerPlex® Fusion</i>						
		16,16.3	19,20	10,14	16,17	11,12	10,11	
		13,13	14,14		8,11	10,14	11,17	
		14,14	30,31		X,X	12,13	24,25	
			11,12	5,7	6,9	8,8	16,16	
PTJB99 (5844)	2	<i>Identifiler® Plus</i>						
			19,20		16,17	11,12	10,11	
		13,13			8,11	10,14	11,17	
		14,14	30,31		X,X	12,13	24,25	
			6,9	8,8	16,16			
PUWKLF (5843)	2	<i>Globalfiler</i>						
		16,16.3	19,20	10,14	16,17	11,12	10,11	
		13,13	14,14	22,22	8,11	10,14	11,17	
		14,14	30,31	15,16	X,X	12,13	24,25	
			24.2,28.2	6,9	8,8	16,16		

TABLE 1

WebCode (Test)	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

Q2A7UA (5843)	2	<i>PowerPlex® Fusion</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13,13	14,14	22,22	8,11	10,14	11,17
		14,14	30,31	15,16	X,X	12,13	24,25
		11,12	5,7		6,9	8,8	16,16
QDMH2C (5843)	2	<i>Identifiler® PLUS</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
			6,9	8,8	16,16		
QV4DZE (5845)	2	<i>GlobalFiler Express</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X	12,13	24,25
			24.2,28.2	6,9	8	16	
RTDF38 (5844)	2	<i>Identifiler® Direct</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
			6,9	8,8	16,16		
RYKAW3 (5844)	2	<i>Identifiler® Plus</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
			6,9	8,8	16,16		
TFPQR9 (5843)	2	<i>PowerPlex® Fusion</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13,13	14,14	22,22	8,11	10,14	11,17
		14,14	30,31	15,16	X,X	12,13	24,25
		11,12	5,7		6,9	8,8	16,16
TLQC9A (5844)	2	<i>Identifiler® Direct</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
			6,9	8,8	16,16		

TABLE 1

WebCode (Test)	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

TPVVG4 (5844)	2	<i>PowerPlex® Fusion</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X,X	12,13	24,25
		11,12	5,7		6,9	8	16
TUM3ZC (5845)	2	<i>GlobalFiler Express</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X	12,13	24,25
				24.2,28.2	6,9	8	16
UERZYY (5843)	2	<i>Identifiler® Direct</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
					6,9	8,8	16,16
UMFXE7 (5844)	2	<i>Identifiler® Direct</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
					6,9	8,8	16,16
WVU6Y (5843)	2	<i>PowerPlex® FUSION</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X,X	12,13	24,25
		11,12	5,7		6,9	8	16
W6ADR3 (5844)	2	<i>Identifiler® PLUS</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
					6,9	8,8	16,16
W8ZAP9 (5845)	2	<i>GlobalFiler Express</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X	12,13	24,25
				24.2,28.2	6,9	8	16

TABLE 1

WebCode (Test)	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

WDPY27 (5844)	2	PowerPlex® 18D					
			19,20		16,17	11,12	10,11
		13			8,11	10,14	11,17
		14	30,31		X	12,13	24,25
		11,12	5,7		6,9	8	16
WHYCH6 (5844)	2	Identifiler® Plus					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
					6,9	8,8	16,16
WUEXDY (5843)	2	Identifiler® Direct					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
					6,9	8,8	16,16
XAKQAZ (5844)	2	Identifiler® DIRECT					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
					6,9	8,8	16,16
XCUQE8 (5845)	2	GlobalFiler Express					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X	12,13	24,25
				24.2,28.2	6,9	8	16
XDJ26Z (5844)	2	Identifiler® DIRECT					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
					6,9	8,8	16,16
XDZ9D4 (5845)	2	GlobalFiler Express					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X	12,13	24,25
				24.2,28.2	6,9	8	16

TABLE 1

WebCode (Test)	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

XLHG2Z (5845)	2	<i>PowerPlex® 18D</i>					
			19,20		16,17	11,12	10,11
		13			8,11	10,14	11,17
		14	30,31		X	12,13	24,25
		11,12	5,7		6,9	8	16
YJ76W4 (5843)	2	<i>PowerPlex® Fusion</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X	12,13	24,25
		11,12	5,7		6,9	8	16
YPCXQY (5844)	2	<i>PowerPlex® Fusion</i>					
		16,16.3	19,20	10,14	16,17	11,12	10,11
		13	14	22	8,11	10,14	11,17
		14	30,31	15,16	X	12,13	24,25
		11,12	5,7		6,9	8	16
YZNAX2 (5844)	2	<i>Identifiler® Direct</i>					
			19,20		16,17	11,12	10,11
		13,13			8,11	10,14	11,17
		14,14	30,31		X,X	12,13	24,25
					6,9	8,8	16,16



TABLE 1

WebCode (Test)	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

29WK4X (5844)	3	<i>Identifiler® Direct</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
					8,9	10,11	15,17
2AR46Y (5844)	3	<i>Identifiler® Plus</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
					8,9	10,11	15,17
2CWMDT (5845)	3	<i>PowerPlex® Fusion</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12	9,13	14,16
		14	30	11,16	X,Y	11	21,22
		9,11	13,17		8,9	10,11	15,17
33MH23 (5845)	3	<i>GlobalFiler Express</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12	9,13	14,16
		14	30	11,16	X,Y	11	21,22
				26.2,27.2	8,9	10,11	15,17
3AM7AU (5844)	3	<i>Identifiler® Plus</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
					8,9	10,11	15,17
3JQC83 (5845)	3	<i>GlobalFiler Express</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12	9,13	14,16
		14	30	11,16	X,Y	11	21,22
				26.2,27.2	8,9	10,11	15,17
3Y26RY (5845)	3	<i>Identifiler® Plus</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
					8,9	10,11	15,17

TABLE 1

WebCode (Test)	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

3ZWK4V (5844)	3	<i>Identifiler® PLUS</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
					8,9	10,11	15,17
4N4C6U (5845)	3	<i>PowerPlex® 18D</i>					
			23,25		16,18	13,14	10,11
		13,15			12	9,13	14,16
		14	30		X,Y	11	21,22
		9,11	13,17		8,9	10,11	15,17
4V32LX (5843)	3	<i>PowerPlex® 16 HS</i>					
					16,18	13,14	10,11
		13,15			12,12	9,13	14,16
			30,30		X,Y	11,11	21,22
		9,11	13,17		8,9	10,11	15,17
63ZTUR (5843)	3	<i>PowerPlex® FUSION 6C</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12	9,13	14,16
		14	30	11,16	X,Y	11	21,22
		9,11	13,17	26.2,27.2	8,9	10,11	15,17
647KDR (5844)	3	<i>Identifiler® Plus</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
					8,9	10,11	15,17
6FN37Y (5845)	3	<i>Globalfiler</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12,12	9,13	14,16
		14,14	30,30	11,16	X,Y	11,11	21,22
				26.2,27.2	8,9	10,11	15,17
6RFNCU (5844)	3	<i>Identifiler® Direct, GlobalFiler Express</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12,12	9,13	14,16
		14,14	30,30	11,16	X,Y	11,11	21,22
				26.2,27.2	8,9	10,11	15,17

TABLE 1

WebCode (Test)	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

6XKJGN (5843)	3	<i>PowerPlex® Fusion</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12	9,13	14,16
		14	30	11,16	X,Y	11	21,22
		9,11	13,17		8,9	10,11	15,17
6ZQQXV (5844)	3	<i>Identifiler® Plus</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
			8,9	10,11	15,17		
6ZRN9Q (5844)	3	<i>Identifiler® Direct, GlobalFiler Express</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12,12	9,13	14,16
		14,14	30,30	11,16	X,Y	11,11	21,22
			26.2,27.2	8,9	10,11	15,17	
723ZAT (5843)	3	<i>PowerPlex® Fusion</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12	9,13	14,16
		14	30	11,16	X,Y	11	21,22
		9,11	13,17		8,9	10,11	15,17
7CJTEU (5844)	3	<i>Identifiler® Plus</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
			8,9	10,11	15,17		
7U2NDV (5845)	3	<i>PowerPlex® 18D</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
		9,11	13,17		8,9	10,11	15,17
7YWHBW (5843)	3	<i>PowerPlex® Fusion</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12,12	9,13	14,16
		14,14	30,30	11,16	X,Y	11,11	21,22
		9,11	13,17		8,9	10,11	15,17

TABLE 1

WebCode (Test)	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

8VA62T (5844)	Identifiler® PLUS	3	23,25		16,18	13,14	10,11	
			13,15		12,12	9,13	14,16	
			14,14	30,30	X,Y	11,11	21,22	
					8,9	10,11	15,17	
9738JR (5844)	Identifiler® Plus	3	23,25		16,18	13,14	10,11	
			13,15		12,12	9,13	14,16	
			14,14	30,30	X,Y	11,11	21,22	
					8,9	10,11	15,17	
9NMPWM (5843)	Identifiler® Direct	3	23,25		16,18	13,14	10,11	
			13,15		12,12	9,13	14,16	
			14,14	30,30	X,Y	11,11	21,22	
					8,9	10,11	15,17	
A6V3RP (5844)	PowerPlex® Fusion	3	11,16	23,25	10,11	16,18	13,14	10,11
			13,15	13,15	18,21	12	9,13	14,16
			14	30	11,16	X,Y	11	21,22
			9,11	13,17		8,9	10,11	15,17
AFR9KN (5845)	PowerPlex® 18D	3	23,25		16,18	13,14	10,11	
			13,15		12	9,13	14,16	
			14	30	X,Y	11	21,22	
			9,11	13,17	8,9	10,11	15,17	
AX7R8T (5844)	GlobalFiler Express	3	11,16	23,25	10,11	16,18	13,14	10,11
			13,15	13,15	18,21	12,12	9,13	14,16
			14,14	30,30	11,16	X,Y	11,11	21,22
					26,2,27,2	8,9	10,11	15,17
B8T46R (5843)	PowerPlex® Fusion	3	11,16	23,25	10,11	16,18	13,14	10,11
			13,15	13,15	18,21	12,12	9,13	14,16
			14,14	30,30	11,16	X,Y	11,11	21,22
			9,11	13,17		8,9	10,11	15,17

TABLE 1

WebCode (Test)	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

BC378M (5844)	3	<i>Identifiler® Direct</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
			8,9	10,11	15,17		
BCLAEM (5844)	3	<i>Identifiler® DIRECT</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
			8,9	10,11	15,17		
BHAWAT (5844)	3	<i>Globalfiler</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12,12	9,13	14,16
		14,14	30,30	11,16	X,Y	11,11	21,22
		26.2,27.2	8,9	10,11	15,17		
BPUQVQ (5843)	3	<i>PowerPlex® Fusion</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12,12	9,13	14,16
		14,14	30,30	11,16	X,Y	11,11	21,22
	9,11	13,17		8,9	10,11	15,17	
BVYMFQ (5845)	3	<i>PowerPlex® 18D</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
	9,11	13,17		8,9	10,11	15,17	
C48QVN (5844)	3	<i>Identifiler® PLUS</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
			8,9	10,11	15,17		
CB742J (5843)	3	<i>Identifiler® Direct</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
			8,9	10,11	15,17		

TABLE 1

WebCode (Test)	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

D2VB2M (5844)	Identifiler® Direct	3	23,25		16,18	13,14	10,11	
					12,12	9,13	14,16	
			30,30		X,Y	11,11	21,22	
					8,9	10,11	15,17	
D3QT3N (5844)	Identifiler® Plus	3	23,25		16,18	13,14	10,11	
					12,12	9,13	14,16	
			30,30		X,Y	11,11	21,22	
					8,9	10,11	15,17	
DH4FAK (5844)	PowerPlex® Fusion	3	23,25	10,11	16,18	13,14	10,11	
			13,15	13,15	18,21	12	9,13	14,16
			14	30	11,16	X,Y	11	21,22
			9,11	13,17		8,9	10,11	15,17
EJUMAN (5844)	PowerPlex® 18D	3	23,25		16,18	13,14	10,11	
					12	9,13	14,16	
			30		X,Y	11	21,22	
			9,11	13,17		8,9	10,11	15,17
EL3Q7K (5844)	PowerPlex® Fusion	3	23,25	10,11	16,18	13,14	10,11	
			13,15	13,15	18,21	12	9,13	14,16
			14	30	11,16	X,Y	11	21,22
			9,11	13,17		8,9	10,11	15,17
EYLKBJ (5844)	Identifiler® PLUS	3	23,25		16,18	13,14	10,11	
					12,12	9,13	14,16	
			30,30		X,Y	11,11	21,22	
					8,9	10,11	15,17	
F69LDH (5844)	PowerPlex® Fusion	3	23,25	10,11	16,18	13,14	10,11	
			13,15	13,15	18,21	12	9,13	14,16
			14	30	11,16	X,Y	11	21,22
			9,11	13,17		8,9	10,11	15,17

TABLE 1

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

Item 3 - STR Results

FD8BUL (5845)	PowerPlex® 18D	3	23,25		16,18	13,14	10,11
			13,15		12,12	9,13	14,16
			14,14	30,30	X,Y	11,11	21,22
			9,11	13,17	8,9	10,11	15,17
FHTA2L (5844)	Identifiler® Plus	3	23,25		16,18	13,14	10,11
			13,15		12,12	9,13	14,16
			14,14	30,30	X,Y	11,11	21,22
					8,9	10,11	15,17
G22RNB (5843)	NGM Select	3	11,16	23,25	10,11	16,18	
			13,15	13,15	18,21		9,13
			14,14	30,30	11,16	X,Y	21,22
					26.2,27.2	8,9	15,17
GAWUPM (5843)	PowerPlex® FUSION, Globalfiler	3	11,16	23,25	10,11	16,18	13,14
			13,15	13,15	18,21	12,12	9,13
			14,14	30,30	11,16	X,Y	11,11
			9,11	13,17	26.2,27.2	8,9	10,11
HDVHRF (5844)	PowerPlex® Fusion	3	11,16	23,25	10,11	16,18	13,14
			13,15	13,15	18,21	12	9,13
			14	30	11,16	X,Y	11
			9,11	13,17		8,9	10,11
HZRZGF (5845)	PowerPlex® 18D	3	23,25		16,18	13,14	10,11
			13,15		12	9,13	14,16
			14	30	X,Y	11	21,22
			9,11	13,17	8,9	10,11	15,17
J3EX9J (5843)	PowerPlex® Fusion	3	11,16	23,25	10,11	16,18	13,14
			13,15	13,15	18,21	12	9,13
			14	30	11,16	X,Y	11
			9,11	13,17		8,9	10,11

TABLE 1

WebCode (Test)	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

J6CN7H (5844)	3	<i>Identifiler® DIRECT</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
			8,9	10,11	15,17		
JJGXWD (5844)	3	<i>PowerPlex® Fusion</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12	9,13	14,16
		14	30	11,16	X,Y	11	21,22
	9,11	13,17		8,9	10,11	15,17	
KFRVHC (5844)	3	<i>Identifiler® Direct</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
			8,9	10,11	15,17		
KFX3TK (5845)	3	<i>GlobalFiler Express, GlobalFiler</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12,12	9,13	14,16
		14,14	30,30	11,16	X,Y	11,11	21,22
		26.2,27.2	8,9	10,11	15,17		
KTHHWK (5845)	3	<i>GlobalFiler Express</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12	9,13	14,16
		14	30	11,16	X,Y	11	21,22
		26.2,27.2	8,9	10,11	15,17		
KYAPGE (5844)	3	<i>PowerPlex® Fusion</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12	9,13	14,16
		14	30	11,16	X,Y	11	21,22
	9,11	13,17		8,9	10,11	15,17	
KZG8FA (5845)	3	<i>PowerPlex® Fusion</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12	9,13	14,16
		14	30	11,16	X,Y	11	21,22
	9,11	13,17		8,9	10,11	15,17	



TABLE 1

WebCode (Test)	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

L8WE7D (5844)	3	<i>Identifiler® Plus, GlobalFiler Express</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12,12	9,13	14,16
		14,14	30,30	11,16	X,Y	11,11	21,22
				26.2,27.2	8,9	10,11	15,17
LPDA6F (5843)	3	<i>PowerPlex® Fusion</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12,12	9,13	14,16
		14,14	30,30	11,16	X,Y	11,11	21,22
		9,11	13,17		8,9	10,11	15,17
LPW3XC (5844)	3	<i>Identifiler® Plus</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
					8,9	10,11	15,17
LQP92A (5843)	3	<i>Globalfiler</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12	9,13	14,16
		14	30	11,16	X,Y	11	21,22
				26.2,27.2	8,9	10,11	15,17
LRKR4B (5843)	3	<i>AmpFLSTR, NGM Select Express PCR</i>					
		11,16	23,25	10,11	16,18	n/a	n/a
		13,15	13,15	18,21	n/a	9,13	14,16
		14,14	30,30	11,16	X,Y	n/a	21,22
		n/a	n/a	26.2,27.2	8,9	n/a	15,17
LWUU77 (5843)	3	<i>Investigator ESSplex SE Plus</i>					
		11,16	23,25	10,11	16,18		
		13,15	13,15	18,21		9,13	14,16
		14,14	30,30	11,16	X,Y		21,22
				26.2,27.2	8,9		15,17
MRFU97 (5845)	3	<i>Globalfiler</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12	9,13	14,16
		14	30	11,16	X,Y	11	21,22
				26.2,27.2	8,9	10,11	15,17

TABLE 1

WebCode (Test)	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

MYE7HG (5843)	3	<i>GlobalFiler Express</i>						
		11,16	23,25	10,11	16,18	13,14	10,11	
		13,15	13,15	18,21	12,12	9,13	14,16	
		14,14	30,30	11,16	X,Y	11,11	21,22	
			26.2,27.2	8,9	10,11	15,17		
NJ6RM6 (5845)	3	<i>PowerPlex® Fusion</i>						
		11,16	23,25	10,11	16,18	13,14	10,11	
		13,15	13,15	18,21	12	9,13	14,16	
		14	30	11,16	X,Y	11	21,22	
			9,11	13,17	8,9	10,11	15,17	
PA9CB7 (5843)	3	<i>Globalfiler</i>						
		11,16	23,25	10,11	16,18	13,14	10,11	
		13,15	13,15	18,21	12	9,13	14,16	
		14	30	11,16	X,Y	11	21,22	
			26.2,27.2	8,9	10,11	15,17		
PJJEW7 (5843)	3	<i>PowerPlex® Fusion 6C</i>						
		11,16	23,25	10,11	16,18	13,14	10,11	
		13,15	13,15	18,21	12	9,13	14,16	
		14	30	11,16	X,Y	11	21,22	
			9,11	13,17	26.2,27.2	8,9	10,11	15,17
PMX9C4 (5843)	3	<i>PowerPlex® Fusion</i>						
		11,16	23,25	10,11	16,18	13,14	10,11	
		13,15	13,15	18,21	12,12	9,13	14,16	
		14,14	30,30	11,16	X,Y	11,11	21,22	
			9,11	13,17	8,9	10,11	15,17	
PTJB99 (5844)	3	<i>Identifiler® Plus</i>						
			23,25		16,18	13,14	10,11	
		13,15			12,12	9,13	14,16	
		14,14	30,30		X,Y	11,11	21,22	
			8,9	10,11	15,17			
PUWKLF (5843)	3	<i>Globalfiler</i>						
		11,16	23,25	10,11	16,18	13,14	10,11	
		13,15	13,15	18,21	12,12	9,13	14,16	
		14,14	30,30	11,16	X,Y	11,11	21,22	
			26.2,27.2	8,9	10,11	15,17		

TABLE 1

WebCode (Test)	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

Q2A7UA (5843)	3	<i>PowerPlex® fusion</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12,12	9,13	14,16
		14,14	30,30	11,16	X,Y	11,11	21,22
		9,11	13,17		8,9	10,11	15,17
QDMH2C (5843)	3	<i>Identifiler® PLUS</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
			8,9	10,11	15,17		
QV4DZE (5845)	3	<i>GlobalFiler Express</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12	9,13	14,16
		14	30	11,16	X,Y	11	21,22
			26.2,27.2	8,9	10,11	15,17	
RTDF38 (5844)	3	<i>Identifiler® Direct</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
			8,9	10,11	15,17		
RYKAW3 (5844)	3	<i>Identifiler® Plus</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
			8,9	10,11	15,17		
TFPQR9 (5843)	3	<i>PowerPlex® Fusion</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12,12	9,13	14,16
		14,14	30,30	11,16	X,Y	11,11	21,22
		9,11	13,17		8,9	10,11	15,17
TLQC9A (5844)	3	<i>Identifiler® Direct</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
			8,9	10,11	15,17		

TABLE 1

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

Item 3 - STR Results

TPVVG4 (5844)	3	<i>PowerPlex® Fusion</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12	9,13	14,16
		14	30	11,16	X,Y	11	21,22
		9,11	13,17		8,9	10,11	15,17
TUM3ZC (5845)	3	<i>GlobalFiler Express</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12	9,13	14,16
		14	30	11,16	X,Y	11	21,22
			26.2,27.2	8,9	10,11	15,17	
UERZYY (5843)	3	<i>Identifiler® Direct</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
			8,9	10,11	15,17		
UMFXE7 (5844)	3	<i>Identifiler® Direct</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
			8,9	10,11	15,17		
WVU6Y (5843)	3	<i>PowerPlex® Fusion</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12	9,13	14,16
		14	30	11,16	X,Y	11	21,22
		9,11	13,17		8,9	10,11	15,17
W6ADR3 (5844)	3	<i>Identifiler® PLUS</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
			8,9	10,11	15,17		
W8ZAP9 (5845)	3	<i>GlobalFiler Express</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12	9,13	14,16
		14	30	11,16	X,Y	11	21,22
			26.2,27.2	8,9	10,11	15,17	

TABLE 1

WebCode (Test)	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

WDPY27 (5844)	3	<i>PowerPlex® 18D</i>					
			23,25		16,18	13,14	10,11
		13,15			12	9,13	14,16
		14	30		X,Y	11	21,22
		9,11	13,17		8,9	10,11	15,17
WHYCH6 (5844)	3	<i>Identifiler® Plus</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
					8,9	10,11	15,17
WUEXDY (5843)	3	<i>Identifiler® Direct</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
					8,9	10,11	15,17
XAKQAZ (5844)	3	<i>Identifiler® DIRECT</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
					8,9	10,11	15,17
XCUQE8 (5845)	3	<i>GlobalFiler Express</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12	9,13	14,16
		14	30	11,16	X,Y	11	21,22
				26.2,27.2	8,9	10,11	15,17
XDJ26Z (5844)	3	<i>Identifiler® DIRECT</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
					8,9	10,11	15,17
XDZ9D4 (5845)	3	<i>GlobalFiler Express</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12	9,13	14,16
		14	30	11,16	X,Y	11	21,22
				26.2,27.2	8,9	10,11	15,17

TABLE 1

WebCode (Test)	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

XLHG2Z (5845)	3	<i>PowerPlex® 18D</i>					
			23,25		16,18	13,14	10,11
		13,15			12	9,13	14,16
		14	30		X,Y	11	21,22
		9,11	13,17		8,9	10,11	15,17
YJ76W4 (5843)	3	<i>PowerPlex® Fusion</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12	9,13	14,16
		14	30	11,16	X,Y	11	21,22
		9,11	13,17		8,9	10,11	15,17
YPCXQY (5844)	3	<i>PowerPlex® Fusion</i>					
		11,16	23,25	10,11	16,18	13,14	10,11
		13,15	13,15	18,21	12	9,13	14,16
		14	30	11,16	X,Y	11	21,22
		9,11	13,17		8,9	10,11	15,17
YZNAX2 (5844)	3	<i>Identifiler® Direct</i>					
			23,25		16,18	13,14	10,11
		13,15			12,12	9,13	14,16
		14,14	30,30		X,Y	11,11	21,22
					8,9	10,11	15,17

# YSTR Results

TABLE 2

WebCode (Test)	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 1 - YSTR Results

2CWMDT (5845)	Yfiler® 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15		
					25		13		
3Y26RY (5845)	Yfiler® 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15		
					25		13		
6FN37Y (5845)	1						11		
								2	
6RFNCU (5844)	Yfiler® 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15		
					25		13		
723ZAT (5843)	PowerPlex® Y 23 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15	23	12
		13	21	18	25	10	13		
8VA62T (5844)	Yfiler® 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15		
					25		13		
9738JR (5844)	Yfiler® 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15		
					25		13		
A6V3RP (5844)	PowerPlex® Y Fusion 1						11		
AX7R8T (5844)	PowerPlex® Y 23 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15	23	12
		13	21	18	25	10	13		
BHAWAT (5844)	Yfiler® Plus 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15	23	12
			21	18	25		13	2	

TABLE 2

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

Item 1 - YSTR Results

C48QVN (5844)	Yfiler® 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15		
					25		13		
DH4FAK (5844)	PowerPlex® Y Fusion 1						11		
EL3Q7K (5844)	PowerPlex® Y Fusion 1						11		
EYLKBJ (5844)	Yfiler® 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15		
					25		13		
F69LDH (5844)	Yfiler® 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15		
					25		13		
FHTA2L (5844)	Yfiler® 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15		
					25		13		
G22RNB (5843)	Yfiler® Plus 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15	23	12
			21	18	25		13		
GAWUPM (5843)	PowerPlex® Y 23 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15	23	12
		13	21	18	25	10	13	2	
HDVHRF (5844)	PowerPlex® Y Fusion 1						11		
J3EX9J (5843)	PowerPlex® Y 23 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15	23	12
		13	21	18	25	10	13		



TABLE 2

WebCode (Test)	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 1 - YSTR Results

JJGXWD (5844)	Yfiler® 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15		
					25		13		
KYAPGE (5844)	PowerPlex® Y Fusion 1						11		
KZG8FA (5845)	Yfiler® 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15		
					25		13		
MYE7HG (5843)	PowerPlex® Y 23 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15	23	12
		13	21	18	25	10	13		
PUWKLF (5843)	Yfiler® Plus 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15	23	12
			21	18	25		13	2	
QDMH2C (5843)	Yfiler® 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15		
					25		13		
TPVVG4 (5844)	Yfiler® 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15		
					25		13		
YJ76W4 (5843)	PowerPlex® Y 23 1	16	11,16	13	30	25	11	11	13
		14	11	10	20	15	15	23	12
		13	21	18	25	10	13		
YPCXQY (5844)	PowerPlex® Y Fusion 1						11		

TABLE 2

WebCode (Test)	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

2CWMDT (5845)	Yfiler® 2	[REDACTED]								
3Y26RY (5845)	Yfiler® 2	[REDACTED]								
6RFNCU (5844)	Yfiler® 2	[REDACTED]								
723ZAT (5843)	PowerPlex® Y 23 2	[REDACTED]								
8VA62T (5844)	Yfiler® 2	[REDACTED]								
9738JR (5844)	Yfiler® 2	[REDACTED]								
C48QVN (5844)	Yfiler® 2	[REDACTED]								
EYLKBJ (5844)	Yfiler® 2	[REDACTED]								
F69LDH (5844)	Yfiler® 2	NR	NR	NR	NR	NR	NR	NR	NR	
		NR	NR	NR	NR	NR	NR			
					NR		NR			
FHTA2L (5844)	Yfiler® 2	[REDACTED]								

TABLE 2

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

Item 2 - YSTR Results

J3EX9J (5843)	PowerPlex® Y 23 2	[REDACTED]							
JJGXWD (5844)	Yfiler® 2	NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR		
					NR		NR		
KZG8FA (5845)	Yfiler® 2	[REDACTED]							
PUWKLF (5843)	Yfiler® Plus 2	[REDACTED]							
QDMH2C (5843)	Yfiler® 2	[REDACTED]							
TPVVG4 (5844)	Yfiler® 2	NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR		
					NR		NR		
YJ76W4 (5843)	PowerPlex® Y 23 2	[REDACTED]							

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 3 - YSTR Results

2CWMDT (5845)	Yfiler® 3	14	11,14	13	28	23	11	13	13
		15	12	13	19	16	15		
					23		11		
3Y26RY (5845)	Yfiler® 3	14	11,14	13	28	23	11	13	13
		15	12	13	19	16	15		
					23		11		
6FN37Y (5845)	3						11		
									2
6RFNCU (5844)	Yfiler® 3	14	11,14	13	28	23	11	13	13
		15	12	13	19	16	15		
					23		11		
723ZAT (5843)	PowerPlex® Y 23 3	14	11,14	13	28	23	11	13	13
		15	12	13	19	16	15	22	12
		13	16	15	23	10	11		
8VA62T (5844)	Yfiler® 3	14	11,14	13	28	23	11	13	13
		15	12	13	19	16	15		
					23		11		
9738JR (5844)	Yfiler® 3	14	11,14	13	28	23	11	13	13
		15	12	13	19	16	15		
					23		11		
A6V3RP (5844)	PowerPlex® Y Fusion 3						11		
AX7R8T (5844)	PowerPlex® Y 23 3	14	11,14	13	28	23	11	13	13
		15	12	13	19	16	15	22	12
		13	16	15	23	10	11		
BHAWAT (5844)	Yfiler® Plus 3	14	11,14	13	28	23	11	13	13
		15	12	13	19	16	15	22	12
			16	15	23		11	2	

TABLE 2

WebCode (Test)	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 3 - YSTR Results

C48QVN (5844)	Yfiler® 3	14	11,14	13	28	23	11	13	13	
		15	12	13	19	16	15			
					23		11			
DH4FAK (5844)	PowerPlex® Y Fusion 3								11	
EL3Q7K (5844)	PowerPlex® Y Fusion 3								11	
EYLKBJ (5844)	Yfiler® 3	14	11,14	13	28	23	11	13	13	
		15	12	13	19	16	15			
					23		11			
F69LDH (5844)	Yfiler® 3	14	11,14	13	28	23	11	13	13	
		15	12	13	19	16	15			
					23		11			
FHTA2L (5844)	Yfiler® 3	14	11,14	13	28	23	11	13	13	
		15	12	13	19	16	15			
					23		11			
G22RNB (5843)	Yfiler® Plus 3	14	11,14	13	28	23	11	13	13	
		15	12	13	19	16	15	22	12	
			16	15	23		11			
GAWUPM (5843)	3	14	11,14	13	28	23	11	13	13	
		15	12	13	19	16	15	22	12	
		13	16	15	23	10	11	2		
HDVHRF (5844)	PowerPlex® Y Fusion 3								11	
J3EX9J (5843)	PowerPlex® Y 23 3	14	11,14	13	28	23	11	13	13	
		15	12	13	19	16	15	22	12	
		13	16	15	23	10	11			

TABLE 2

WebCode (Test)	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 3 - YSTR Results

JJGXWD (5844)	Yfiler® 3	14	11,14	13	28	23	11	13	13
		15	12	13	19	16	15		
					23		11		
KYAPGE (5844)	PowerPlex® Y Fusion 3						11		
KZG8FA (5845)	Yfiler® 3	14	11,14	13	28	23	11	13	13
		15	12	13	19	16	15		
					23		11		
MYE7HG (5843)	PowerPlex® Y 23 3	14	11,14	13	28	23	11	13	13
		15	12	13	19	16	15	22	12
		13	16	15	23	10	11		
PUWKLF (5843)	Yfiler® Plus 3	14	11,14	13	28	23	11	13	13
		15	12	13	19	16	15	22	12
			16	15	23		11	2	
QDMH2C (5843)	Yfiler® 3	14	11,14	13	28	23	11	13	13
		15	12	13	19	16	15		
					23		11		
TPVVG4 (5844)	Yfiler® 3	14	11,14	13	28	23	11	13	13
		15	12	13	19	16	15		
					23		11		
YJ76W4 (5843)	PowerPlex® Y 23 3	14	11,14	13	28	23	11	13	13
		15	12	13	19	16	15	22	12
		13	16	15	23	10	11		
YPCXQY (5844)	PowerPlex® Y Fusion 3						11		

**Additional DNA Results**

TABLE 3

<b>Locus</b>	<b>WebCode</b>	<b>(Test)</b>	<b>Item 1</b>	<b>Item 2</b>	<b>Item 3</b>
D10S1248	PA9CB7	(5843)	13,15		
D12S391	PA9CB7	(5843)	19,3,23		
D1S1656	PA9CB7	(5843)	11,12		
D22S1045	PA9CB7	(5843)	15,16		
D2S441	PA9CB7	(5843)	14		
DYF387S A/B	PUWKLF	(5843)	38,39		36,36
DYF387S1	BHAWAT	(5844)	38,39		36,36
DYS391	2CWMDT	(5845)	11		11
	33MH23	(5845)	11		11
	3JQC83	(5845)	11		11
	63ZTUR	(5843)	11		11
	6RFNCU	(5844)	11		11
	6ZRN9Q	(5844)	11		11
	7YWHBW	(5843)	11		11
	AX7R8T	(5844)	11		11
	B8T46R	(5843)	11		11
	BPUQVQ	(5843)	11		11
	KFX3TK	(5845)	11		11
	KTHHWK	(5845)	11		11
	KZG8FA	(5845)	11		11
	L8WE7D	(5844)	11		11
	LPDA6F	(5843)	11		11
	LQP92A	(5843)	11		11
	MRFU97	(5845)	11		11
	MYE7HG	(5843)	11		11
	NJ6RM6	(5845)	11		11
	PA9CB7	(5843)	11		11
	PJJEW7	(5843)	11		11
	Q2A7UA	(5843)	11		11
QV4DZE	(5845)	11		11	
TFPQR9	(5843)	11		11	
TUM3ZC	(5845)	11		11	
W8ZAP9	(5845)	11		11	
XCUQE8	(5845)	11		11	
XDZ9D4	(5845)	11		11	
DYS449	BHAWAT	(5844)	31		30
	G22RNB	(5843)	31		30
	PUWKLF	(5843)	31		30

TABLE 3

Locus	WebCode	(Test)	Item 1	Item 2	Item 3
DYS460	BHAWAT	(5844)	11		10
	G22RNB	(5843)	11		10
	PUWKLF	(5843)	11		10
DYS518	BHAWAT	(5844)	40		39
	G22RNB	(5843)	40		39
	PUWKLF	(5843)	40		39
DYS570	63ZTUR	(5843)	21		16
	PJJEW7	(5843)	21		16
DYS576	63ZTUR	(5843)	18		15
	PJJEW7	(5843)	18		15
DYS627	BHAWAT	(5844)	16		21
	G22RNB	(5843)	16		21
	PUWKLF	(5843)	16		21
SE33	PA9CB7	(5843)	26.2,33.2		
YINDEL	33MH23	(5845)	2		2
	3JQC83	(5845)	2		2
	6RFNCU	(5844)	2		2
	6ZRN9Q	(5844)	2		2
	AX7R8T	(5844)	2		2
	KFX3TK	(5845)	2		2
	KTHHWK	(5845)	2		2
	L8WE7D	(5844)	2		2
	LQP92A	(5843)	2		2
	MRFU97	(5845)	2		2
	MYE7HG	(5843)	2		2
	PA9CB7	(5843)	2		2
	QV4DZE	(5845)	2		2
	TUM3ZC	(5845)	2		2
	W8ZAP9	(5845)	2		2
	XCUQE8	(5845)	2		2
XDZ9D4	(5845)	2		2	



# Additional Comments

TABLE 4

WebCode (Test)	Additional Comments
2CWMDT (5845)	DYS391 was omitted from the PowerPlex Fusion reporting form for items 1-3. The alleles at this locus have been reported on the "Additional DNA" data sheet for items 1 and 3. Item 2 produced a (X,X) PowerPlex Fusion profile, therefore, no Yfiler data is available for this item.
63ZTUR (5843)	Item 2 was tested using Fusion 6C, however no Y-STR results are reported due to sample originating from a female. The last three autosomal STR markers (SE33, D22S1045 and FGA) are incorrectly ordered for the Fusion 6C kit.
6XKJGN (5843)	Item #1 took three tries, as per policy, to obtain a full profile. There were three loci above our analytical threshold, but below our stochastic threshold. They were usable loci because they were heterozygous. Item #2 had dropout at one locus and the item had to be re-punched to obtain a full profile.
7U2NDV (5845)	Utilized robotic methods to process this proficiency test.
9NMPWM (5843)	PTS000193A and PTS000194A were run through the laboratory twice due to a weak result from the first attempt. They originally were run at IDD 26 cycles, and then at IDD 28 cycles.
BHAWAT (5844)	1- The genetic profile for item (1) refers to single male. 2- The genetic profile for item (2) refers to single female. 3- The genetic profile for item (3) refers to single male different from male on item (1). 4- The Method used for these buccal/saliva is direct amplification.
CB742J (5843)	Items 1 and 2 were below the interpretation threshold and needed to be reworked at a higher cycle number.
KFX3TK (5845)	1- Samples were extracted and amplified using GlobalFiler Express as well as extracted by EZ-1 and amplified with GlobalFiler. 2 - Profiles generated by GlobalFiler Express and GlobalFiler were 100% concordant.
KZG8FA (5845)	NR = no results
LPDA6F (5843)	Sample #1 was weak and had to be rerun several times.
PJJEW7 (5843)	Item 2 was tested using Fusion 6C, however no Y-STR results are reported due to the profile being from a female. Also, the last 3 autosomal STR markers were incorrectly ordered for Fusion 6C.
PMX9C4 (5843)	A partial profile was reported for Item 2; the sample was attempted multiple times per policy, and the best result was reported.
PUWKLF (5843)	Participant's note concerning boxes (either with "-" or empty): box filled with a single dash "-" indicates that the related marker gave no allele for that item, empty box indicates that no experiment was performed on that marker.
VWU6Y (5843)	Item one had one locus below Stochastic Threshold (D12S391). This locus, however was heterozygous, therefore it was reported.
XDZ9D4 (5845)	Sample 1 was re-extracted utilizing GlobalFiler with 100% concordance.

Collaborative Testing Services ~ Forensic Testing Program

**Test No. 16-5843/5844/5845: DNA Database - Saliva**DATA MUST BE RECEIVED BY October 3, 2016 TO BE INCLUDED IN THE REPORT

Participant Code:

Report Code:

**Accreditation Release Statement**

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

**Scenario:**

Three known buccal/saliva standards were collected from identified subjects and are provided to your laboratory for analysis for database purposes. You are requested to perform DNA analyses (STR and YSTR) on these known standards and report the allelic results that would be recorded in the database.

**Items Submitted:****Sample Pack DBF2- FTA Indicating Micro Card (16-5843):****Sample Pack DBB2- Bode Buccal Collector (16-5844):****Sample Pack DBS2- Puritan CapSure Swabs (16-5845):**

Item 1: Known buccal/saliva standard from Individual 1

Item 2: Known buccal/saliva standard from Individual 2

Item 3: Known buccal/saliva standard from Individual 3

**Part I: DNA ANALYSIS (on following pages)****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 (no spaces necessary).
- \* Follow your laboratory procedures for reporting homozygotes (i.e. X,X or X).

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

Page 1 of 6

**Part I (continued): DNA Results 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. 16, Plus, Direct, 16 HS, etc.).

<input type="checkbox"/> COfiler®/Profiler Plus® _____	<input type="checkbox"/> PowerPlex® _____
<input type="checkbox"/> Identifiler® _____	<input type="checkbox"/> Other _____

<b>ITEM</b>	<b>D1S1656</b>	<b>D2S1338</b>	<b>D2S441</b>	<b>D3S1358</b>	<b>D5S818</b>	<b>D7S820</b>
<b>1</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ITEM</b>	<b>D8S1179</b>	<b>D10S1248</b>	<b>D12S391</b>	<b>D13S317</b>	<b>D16S539</b>	<b>D18S51</b>
<b>1</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ITEM</b>	<b>D19S433</b>	<b>D21S11</b>	<b>D22S1045</b>	<b>Amelogenin</b>	<b>CSF1PO</b>	<b>FGA</b>
<b>1</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ITEM</b>	<b>Penta D</b>	<b>Penta E</b>	<b>SE33</b>	<b>TH01</b>	<b>TPOX</b>	<b>vWA</b>
<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.).

<input type="checkbox"/> Yfiler® _____	<input type="checkbox"/> PowerPlex® Y _____
<input type="checkbox"/> Other _____	

<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>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>	<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>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>	<b>DYS549</b>	<b>DYS570</b>	<b>DYS576</b>	<b>DYS635</b>	<b>DYS643</b>	<b>Y GATA H4</b>	<b>Y Indel</b>	
<b>1</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**Additional DNA Results for Item 1**

Please use the section below to report results only for loci not available in the above tables.

_____	<input type="checkbox"/>	_____	<input type="checkbox"/>
_____	<input type="checkbox"/>	_____	<input type="checkbox"/>

**Part I (continued): DNA Results 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. 16, Plus, Direct, 16 HS, etc.).

<input type="checkbox"/> COfiler®/Profiler Plus® _____	<input type="checkbox"/> PowerPlex® _____
<input type="checkbox"/> Identifiler® _____	<input type="checkbox"/> Other _____

<b>ITEM</b>	<b>D1S1656</b>	<b>D2S1338</b>	<b>D2S441</b>	<b>D3S1358</b>	<b>D5S818</b>	<b>D7S820</b>
<b>2</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ITEM</b>	<b>D8S1179</b>	<b>D10S1248</b>	<b>D12S391</b>	<b>D13S317</b>	<b>D16S539</b>	<b>D18S51</b>
<b>2</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ITEM</b>	<b>D19S433</b>	<b>D21S11</b>	<b>D22S1045</b>	<b>Amelogenin</b>	<b>CSF1PO</b>	<b>FGA</b>
<b>2</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ITEM</b>	<b>Penta D</b>	<b>Penta E</b>	<b>SE33</b>	<b>TH01</b>	<b>TPOX</b>	<b>vWA</b>
<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.).

<input type="checkbox"/> Yfiler® _____	<input type="checkbox"/> PowerPlex® Y _____
<input type="checkbox"/> Other _____	

<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>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>	<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>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>	<b>DYS549</b>	<b>DYS570</b>	<b>DYS576</b>	<b>DYS635</b>	<b>DYS643</b>	<b>Y GATA H4</b>	<b>Y Indel</b>	
<b>2</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**Additional DNA Results for Item 2**

Please use the section below to report results only for loci not available in the above tables.

_____	<input type="checkbox"/>	_____	<input type="checkbox"/>
_____	<input type="checkbox"/>	_____	<input type="checkbox"/>

**Part I (continued): DNA Results 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. 16, Plus, Direct, 16 HS, etc.).

<input type="checkbox"/> COfiler®/Profiler Plus® _____	<input type="checkbox"/> PowerPlex® _____
<input type="checkbox"/> Identifiler® _____	<input type="checkbox"/> Other _____

<b>ITEM</b>	<b>D1S1656</b>	<b>D2S1338</b>	<b>D2S441</b>	<b>D3S1358</b>	<b>D5S818</b>	<b>D7S820</b>
<b>3</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ITEM</b>	<b>D8S1179</b>	<b>D10S1248</b>	<b>D12S391</b>	<b>D13S317</b>	<b>D16S539</b>	<b>D18S51</b>
<b>3</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ITEM</b>	<b>D19S433</b>	<b>D21S11</b>	<b>D22S1045</b>	<b>Amelogenin</b>	<b>CSF1PO</b>	<b>FGA</b>
<b>3</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>ITEM</b>	<b>Penta D</b>	<b>Penta E</b>	<b>SE33</b>	<b>TH01</b>	<b>TPOX</b>	<b>vWA</b>
<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.).

<input type="checkbox"/> Yfiler® _____	<input type="checkbox"/> PowerPlex® Y _____
<input type="checkbox"/> Other _____	

<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>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>	<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>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>	<b>DYS549</b>	<b>DYS570</b>	<b>DYS576</b>	<b>DYS635</b>	<b>DYS643</b>	<b>Y GATA H4</b>	<b>Y Indel</b>	
<b>3</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**Additional DNA Results for Item 3**

Please use the section below to report results only for loci not available in the above tables.

_____	<input type="checkbox"/>	_____	<input type="checkbox"/>
_____	<input type="checkbox"/>	_____	<input type="checkbox"/>

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

**Part II: ADDITIONAL COMMENTS**

Comments regarding any part of this test.

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

*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>Return Instructions:</b> Data must be received via online data entry, fax (please include a cover sheet), or mail by <i>October 03, 2016</i> to be included in the report.</p>	<p>Participant Code:  ONLINE DATA ENTRY: <a href="http://www.cts-portal.com">www.cts-portal.com</a></p>
<p>QUESTIONS? TEL: +1-571-434-1925 (8 am - 4:30 pm EST) EMAIL: <a href="mailto:forensics@cts-interlab.com">forensics@cts-interlab.com</a> <a href="http://www.ctsforensics.com">www.ctsforensics.com</a></p>	<p>FAX: +1-571-434-1937 MAIL: Collaborative Testing Services, Inc. P.O. Box 650820 Sterling, VA 20165-0820 USA</p>

**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. **16-5843/5844/5845: DNA Database - Saliva**

This release page must be completed and received by **October 3, 2016** to have this participant's submitted data included in the reports forwarded to the respective Accreditation Bodies.

**ASCLD/LAB RELEASE**

If your lab has been accredited by ASCLD/LAB and you are submitting this data as part of their external proficiency test requirements, have the laboratory's designated individual complete the following.

**The information below must be completed in its entirety for the results to be submitted to ASCLD/LAB.**

ASCLD/LAB Legacy Certificate No. \_\_\_\_\_ ASCLD/LAB International Certificate No. \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

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

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

**ANAB RELEASE**

If your laboratory maintains its accreditation through ANAB, please complete the following form in its entirety to have your results forwarded.

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

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

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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