Collaborative Testing Services, Inc
FORENSIC TESTING PROGRAM

DNA-Blood Test No. 22-5803
Summary Report

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 94 participants and are compiled into the following tables:

Manufacturer's Information

Each sample pack consisted of two known bloodstains on FTA cards (Items 1 & 2), and two questioned stains on clean, colored fabric (Item 3 & 4). Participants were requested to analyze these items using their existing protocols.

SAMPLE PREPARATION: The stains in Items 1, 2, 3, and 4 were prepared from human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. Items 1 (75 μl) and 3 (50 μl) were created using blood from the same male donor. Item 2 (75 μl) was created using blood collected from a male donor, but different than that of Items 1 and 3. Item 4 (50 μl) was created using blood collected from a male donor, but different than that of Items 1, 2, and 3. 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 19, 2022 following completion of verification stage.

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

VERIFICATION: Laboratories that conducted predistribution analysis of the samples reported consistent allelic results and confirmed the manufacturer's expected associations.

Manufacturer's Information, continued

Amelogenin and STR Results

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

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	
1	12,17	17,20	10,14	16,17	11,11	*
	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24	11,11	7,14	12,22.2	6,9	8,8
	16,18	11	20	18	2	
2	12,17	17,24	10,11	16,16	9,13	*
	11,11	10,14	13,16	20,20	12,12	10,12
	14,14	13.2,14	30,32	15,15	X,Y	10,12
	24,26	9,13	10,12	16,16.2	6,9	8,11
	16,18	11	18	18	2	
3	12,17	17,20	10,14	16,17	11,11	*
	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24	11,11	7,14	12,22.2	6,9	8,8
	16,18	11	20	18	2	
4	16,17.3	20,21	14,14	14,14	12,12	*
	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19	2	

YSTR Results

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

| Item | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
| | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
1	38,38	15	11,15	13	29	24	11	11	13
	14	11	10	19	33	16	15	11	23
	42	12	*	20	18	16	24	*	13
2	36,37	14	11,14	13	29	24	11	13	13
	15	12	12	19	32	15	15	11	23
	37	12	*	18	18	19	23	*	12
3	38,38	15	11,15	13	29	24	11	11	13
	14	11	10	19	33	16	15	11	23
	42	12	*	20	18	16	24	*	13
4	40,40	15	14,17	13	29	23	10	11	12
	15	9	12	21	32	16	16	10	22
	37	11	*	17	19	21	21	*	11

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

Summary Comments

The 22-5803 DNA-Blood test is part of the DNA Sample Specific Series, where participants are advised of the body fluid(s) that made up the questioned stains. The test is designed to allow participants to assess their proficiency in the analysis of dried stains. Participants were supplied with two "known" bloodstains (Items 1 and 2) and two "questioned" stains (Items 3 and 4). Items 1 and 3 were created using blood from the same male donor. Item 2 was created using blood collected from a male donor, but different than that of Items 1 and 3. Item 4 was created using blood collected from a male donor, but different than that of Items 1, 2, and 3. (See Manufacturer's Information for preparation details)

Of the 94 participants that returned results, 81 reported DNA interpretations. One participant did not respond, eight stated that the samples were analyzed for database purposes only, and four selected the "No Interpretations" option for all Interpretation questions.

For the Item 3 stain, all responding participants included the victim (Item 1) and excluded the suspect (Item 2) as possible contributors.

For the Item 4 stain, all responding participants excluded the victim (Item 1) and the suspect (Item 2) as possible contributors.

A total of 18 participants reported the use of Probabilistic Genotyping (PG) software on either solely the questioned items or all four items.

STR Amplification Kit(s) & Results

TABLE 1

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

Item 1 - STR Results

27GBVA Identifiler® Plus (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,20		16,17	11,11	
8,11	10,15			8,12	10,11
11,13	13,14	31,32.2		X,Y	10,10
24,24				6,9	8,8
16,18					

3XH96G PowerPlex® 21 (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20		16,17	11,11	12,18
8,11	10,15		15,22	8,12	10,11
11,13	13,14	31,32.2		X,Y	10,10
24,24	11,11	7,14		6,9	8,8
16,18					

42YQ2T GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

4A9JRE Identifiler® Plus (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,20		16,17	11,11	
8,11	10,15			8,12	10,11
11,13	13,14	31,32.2		X,Y	10,10
24,24				6,9	8,8
16,18					

4MZ7ZV GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,[15]	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

62ACNY GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

TABLE 1

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

Item 1 - STR Results

62XH7E — Investigator® 24plex — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11				

6436NP — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

6KLYCT — PowerPlex® Fusion — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14		6,9	8
16,18	11				

6W4F6Y — GlobalFiler™ GlobalFiler Express — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

76QXWD — Identifiler® Plus — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,20		16,17	11,11	
8,11	10,15			8,12	10,11
11,13	13,14	31,32.2		X,Y	10,10
24,24				6,9	8,8
16,18					

77JUJL — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

7D4TDZ — GlobalFiler™ Express — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

TABLE 1

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

Item 1 - STR Results

7NN2XN — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

7UUT7L — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

87YD3J — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14	12,22.2	6,9	8
16,18	11	20	18		

8F86AT — GlobalFiler™ Express (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

8G3NCU — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	11,11	7,14	12,22.2	6,9	8,8
16,18	11	20	18		

8YKJRM — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

9DVMQM — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

TABLE 1

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

Item 1 - STR Results

9DVPCL — GlobalFiler™ (Item 1)

12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

9HRDVD — PowerPlex® Fusion 6C (Item 1)

12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	11,11	7,14	12,22.2	6,9	8,8
16,18	11	20	18		

A7RZCT — NGM SElect (Item 1)

12,17	17,20	10,14	16,17		
	10,15	15,15	15,22		10,11
11,13	13,14	31,32.2	11,15	X,Y	
24,24			12,22.2	6,9	
16,18					

A9GCAD — PowerPlex® Fusion 6C (Item 1)

12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	11,11	7,14	12,22.2	6,9	8,8
16,18	11	20	18		

AL6C6L — GlobalFiler™ (Item 1)

12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

B4LYQL — PowerPlex® Fusion (Item 1)

12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14		6,9	8
16,18	11				

BA7Z8Y — Identifiler® Plus (Item 1)

	17,20		16,17	11,11	
8,11	10,15			8,12	10,11
11,13	13,14	31,32.2		X,Y	10,10
24,24				6,9	8,8
16,18					

TABLE 1

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

Item 1 - STR Results

BTGR8F   PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14	12,22.2	6,9	8
16,18	11	20	18		

BWKPH9   PowerPlex® Fusion 6C (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14	12,22.2	6,9	8
16,18	11	20	18		

C99AEP   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

CDYJJG   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

CMP4PE   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

CUBX7K   PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14		6,9	8
16,18	11				

CWFPVD   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

TABLE 1

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

Item 1 - STR Results

D7H6LH — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

DU7XHQ — GlobalFiler™ Express (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

DX6EVK — PowerPlex® Fusion 5C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14		6,9	8
16,18	11				

EDCRPM — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	11,11	7,14	12,22.2	6,9	8,8
16,18	11	20	18		

EL66KF — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	11,11	7,14	12,22.2	6,9	8,8
16,18	11	20	18		

F2E9NM — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14	12,22.2	6,9	8
16,18	11	20	18		

FADX8C — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

TABLE 1

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

Item 1 - STR Results

FGTGPQ — GlobalFiler™ (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

FWNYEN — GlobalFiler™ Express (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

GDMDA9 — PowerPlex® Fusion 6C (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14	12,22.2	6,9	8
16,18	11	20	18		

GQXN4Q — GlobalFiler™ Express (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

HJQGZ8 — PowerPlex® Fusion 6C (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	11,11	7,14	12,22.2	6,9	8,8
16,18	11	20	18		

HPX7GE — PowerPlex® Fusion (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14		6,9	8
16,18	11				

HPYZZK — GlobalFiler™ (Item 1)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

TABLE 1

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

Item 1 - STR Results

HWWPJA	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
1	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	

J72ZNE	PowerPlex® Fusion 5C					
	12,17	17,20	10,14	16,17	11	
1	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				

J7EVRX	GlobalFiler™					
	12,17	17,20	10,14	16,17	11,11	
1	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11,0			2,0	

JUNYQZ	Identifiler® Plus					
		17,20		16,17	11,11	
1	8,11	10,15			8,12	10,11
	11,13	13,14	31,32.2		X,Y	10,10
	24,24				6,9	8,8
	16,18					

K6L3R9	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
1	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	

KENK3B	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
1	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	

KMHKLA	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
1	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	

TABLE 1

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

Item 1 - STR Results

KMKAQ8 — GlobalFiler™ — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11,11	--
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	--	--	12,22.2	6,9	8,8
16,18	11	--	--	2	

KRF4N9 — PowerPlex® Fusion — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14		6,9	8
16,18	11				

KT9ZBG — GlobalFiler™ Express — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

L8KV4H — GlobalFiler™ — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

MKNJQ7 — GlobalFiler™ — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

MMFG66 — GlobalFiler™ — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

NMCC42 — PowerPlex® Fusion 6C — Item 1

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	11,11	7,14	12,22.2	6,9	8,8
16,18	11	20	18		

TABLE 1

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

Item 1 - STR Results

P6367A — GlobalFiler™

12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

P8WTN7 — GlobalFiler™

12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

Q88XV3 — GlobalFiler™

12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

QABTE6 — GlobalFiler™

12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

QAYVAZ — GlobalFiler™

12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

QM3EP8 — PowerPlex® Fusion

12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14		6,9	8
16,18	11				

QNW34W — PowerPlex® Fusion 6C

12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	11,11	7,14	12,22.2	6,9	8,8
16,18	11	20	18		

TABLE 1

WebCode — Amplification Kits (Probabilistic Genotyping Software)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
FGA	Penta D	Penta E	SE33	TH01	TPOX
vWA	DYS391	DYS570	DYS576	Y Indel	

Item 1 - STR Results

QYT7AB — Identifiler® Plus (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,20		16,17	11,11	
8,11	10,15			8,12	10,11
11,13	13,14	31,32.2		X,Y	10,10
24,24				6,9	8,8
16,18					

QZCPG4 — PowerPlex® Fusion 5C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14		6,9	8
16,18	11				

R2FAD3 — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

T42BYF — Identifiler® Plus (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,20		16,17	11,11	
8,11	10,15			8,12	10,11
11,13	13,14	31,32.2		X,Y	10,10
24,24				6,9	8,8
16,18					

TY7JNX — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

UR3UN6 — GlobalFiler™ RapidHIT™ ID ACE GlobalFiler™ Express (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

VCPLJV — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14	12,22.2	6,9	8
16,18	11	20	18		

TABLE 1

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

Item 1 - STR Results

VFPR38	PowerPlex® Fusion 6c					
	12,17	17,20	10,14	16,17	11	
1	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18		
VTAE8Y	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
1	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
VYJP3E	Identifiler® Plus					
		17,20		16,17	11,11	
1	8,11	10,15			8,12	10,11
	11,13	13,14	31,32.2		X,Y	10,10
	24,24				6,9	8,8
	16,18					
W2NHUR	PowerPlex® Fusion 6C					
	12,17	17,20	10,14	16,17	11,11	
1	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24	11,11	7,14	12,22.2	6,9	8,8
	16,18	11	20	18		
W9NZA4	GlobalFiler™					
	12,17	17,20	10,14	16,17	11,11	
1	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11			2	
WEQ7N8	GlobalFiler™					
	12,17	17,20	10,14	16,17	11,11	
1	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11			2	
WND83V	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
1	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	

TABLE 1

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

Item 1 - STR Results

WYADWU — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

YE2TDY — PowerPlex® Fusion 5C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14		6,9	8
16,18	11				

YUVG6P — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	11,11	7,14	12,22.2	6,9	8,8
16,18	11	20	18		

Z2CDM6 — PowerPlex® Fusion — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14		6,9	8
16,18	11				

Z33ETT — Investigator® 24plex — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11				

Z678K7 — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

ZMC9KY — PowerPlex® Fusion — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14		6,9	8
16,18	11				

TABLE 1

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

Item 2 - STR Results

27GBVA — Identifiler® Plus — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,24		16,16	9,13	
11,11	10,14			12,12	10,12
14,14	13.2,14	30,32		X,Y	10,12
24,26				6,9	8,11
16,18					

3XH96G — PowerPlex® 21 — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,24		16,16	9,13	11,21.3
11,11	10,14		20,20	12,12	10,12
14,14	13.2,14	30,32		X,Y	10,12
24,26	9,13	10,12		6,9	8,11
16,18					

42YQ2T — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

4A9JRE — Identifiler® Plus — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,24		16,16	9,13	
11,11	10,14			12,12	10,12
14,14	13.2,14	30,32		X,Y	10,12
24,26				6,9	8,11
16,18					

4MZ7ZV — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

62ACNY — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

62XH7E — Investigator® 24plex — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

TABLE 1

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

Item 2 - STR Results

6436NP GlobalFiler™ — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

6KLYCT PowerPlex® Fusion — Item 2

12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26	9,13	10,12		6,9	8,11
16,18	11				

6W4F6Y GlobalFiler™ GlobalFiler Express — Item 2

12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

76QXWD Identifiler® Plus — Item 2

	17,24		16,16	9,13	
11,11	10,14			12,12	10,12
14,14	13.2,14	30,32		X,Y	10,12
24,26				6,9	8,11
16,18					

77JUJL GlobalFiler™ — Item 2

12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

7D4TDZ GlobalFiler™ Express — Item 2

12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

7NN2XN GlobalFiler™ — Item 2

12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

TABLE 1

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

Item 2 - STR Results

7UUT7L — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,17	17,24	10,11	16,16	9,13	
	11,11	10,14	13,16	20,20	12,12	10,12
	14,14	13.2,14	30,32	15,15	X,Y	10,12
	24,26			16,16.2	6,9	8,11
	16,18	11			2	

87YD3J — PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,17	17,24	10,11	16	9,13	
	11	10,14	13,16	20	12	10,12
	14	13.2,14	30,32	15	X,Y	10,12
	24,26	9,13	10,12	16,16.2	6,9	8,11
	16,18	11	18	18		

8F86AT — GlobalFiler™ Express

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,17	17,24	10,11	16,16	9,13	
	11,11	10,14	13,16	20,20	12,12	10,12
	14,14	13.2,14	30,32	15,15	X,Y	10,12
	24,26			16,16.2	6,9	8,11
	16,18	11			2	

8G3NCU — PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,17	17,24	10,11	16,16	9,13	
	11,11	10,14	13,16	20,20	12,12	10,12
	14,14	13.2,14	30,32	15,15	X,Y	10,12
	24,26	9,13	10,12	16,16.2	6,9	8,11
	16,18	11	18	18		

8YKJRM — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,17	17,24	10,11	16	9,13	
	11	10,14	13,16	20	12	10,12
	14	13.2,14	30,32	15	X,Y	10,12
	24,26			16,16.2	6,9	8,11
	16,18	11			2	

9DVMQM — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,17	17,24	10,11	16	9,13	
	11	10,14	13,16	20	12	10,12
	14	13.2,14	30,32	15	X,Y	10,12
	24,26			16,16.2	6,9	8,11
	16,18	11			2	

9DVPCL — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,17	17,24	10,11	16	9,13	
	11	10,14	13,16	20	12	10,12
	14	13.2,14	30,32	15	X,Y	10,12
	24,26			16,16.2	6,9	8,11
	16,18	11			2	

TABLE 1

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

Item 2 - STR Results

9HRDVD — PowerPlex® Fusion 6C (Item 2)

12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26	9,13	10,12	16,16.2	6,9	8,11
16,18	11	18	18		

A7RZCT — NGM SElect (Item 2)

12,17	17,24	10,11	16,16		
	10,14	13,16	20,20		10,12
14,14	13.2,14	30,32	15,15	X,Y	
24,26			16,16.2	6,9	
16,18					

A9GCAD — PowerPlex® Fusion 6C (Item 2)

12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26	9,13	10,12	16,16.2	6,9	8,11
16,18	11	18	18		

AL6C6L — GlobalFiler™ (Item 2)

12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

B4LYQL — PowerPlex® Fusion (Item 2)

12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26	9,13	10,12		6,9	8,11
16,18	11				

BA7Z8Y — Identifiler® Plus (Item 2)

	17,24		16,16	9,13	
11,11	10,14			12,12	10,12
14,14	13.2,14	30,32		X,Y	10,12
24,26				6,9	8,11
16,18					

BTGR8F — PowerPlex® Fusion 6C (Item 2)

12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26	9,13	10,12	16,16.2	6,9	8,11
16,18	11	18	18		

TABLE 1

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

Item 2 - STR Results

WebCode / Kit	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
BWKPH9 — PowerPlex® Fusion 6C (STRmix), Item 2	12,17	17,24	10,11	16	9,13	
	11	10,14	13,16	20	12	10,12
	14	13.2,14	30,32	15	X,Y	10,12
	24,26	9,13	10,12	16,16.2	6,9	8,11
	16,18	11	18	18		
C99AEP — GlobalFiler™, Item 2	12,17	17,24	10,11	16,16	9,13	
	11,11	10,14	13,16	20,20	12,12	10,12
	14,14	13.2,14	30,32	15,15	X,Y	10,12
	24,26			16,16.2	6,9	8,11
	16,18	11			2	
CDYJJG — GlobalFiler™, Item 2	12,17	17,24	10,11	16	9,13	
	11	10,14	13,16	20	12	10,12
	14	13.2,14	30,32	15	X,Y	10,12
	24,26			16,16.2	6,9	8,11
	16,18	11			2	
CMP4PE — GlobalFiler™, Item 2	12,17	17,24	10,11	16,16	9,13	
	11,11	10,14	13,16	20,20	12,12	10,12
	14,14	13.2,14	30,32	15,15	X,Y	10,12
	24,26			16,16.2	6,9	8,11
	16,18	11			2	
CUBX7K — PowerPlex® Fusion 5C, Item 2	12,17	17,24	10,11	16	9,13	
	11	10,14	13,16	20	12	10,12
	14	13.2,14	30,32	15	X,Y	10,12
	24,26	9,13	10,12		6,9	8,11
	16,18	11				
CWFPVD — GlobalFiler™, Item 2	12,17	17,24	10,11	16,16	9,13	
	11,11	10,14	13,16	20,20	12,12	10,12
	14,14	13.2,14	30,32	15,15	X,Y	10,12
	24,26			16,16.2	6,9	8,11
	16,18	11			2	
D7H6LH — GlobalFiler™, Item 2	12,17	17,24	10,11	16	9,13	
	11	10,14	13,16	20	12	10,12
	14	13.2,14	30,32	15	X,Y	10,12
	24,26			16,16.2	6,9	8,11
	16,18	11			2	

TABLE 1

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

Item 2 - STR Results

DU7XHQ — GlobalFiler™ Express — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

DX6EVK — PowerPlex® Fusion 5C — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26	9,13	10,12		6,9	8,11
16,18	11				

EDCRPM — PowerPlex® Fusion 6C — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26	9,13	10,12	16,16.2	6,9	8,11
16,18	11	18	18		

EL66KF — PowerPlex® Fusion 6C — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26	9,13	10,12	16,16.2	6,9	8,11
16,18	11	18	18		

F2E9NM — PowerPlex® Fusion 6C — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26	9,13	10,12	16,16.2	6,9	8,11
16,18	11	18	18		

FADX8C — GlobalFiler™ — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

FGTGPQ — GlobalFiler™ — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

TABLE 1

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

Item 2 - STR Results

FWNYEN — GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,17	17,24	10,11	16	9,13	
	11	10,14	13,16	20	12	10,12
	14	13.2,14	30,32	15	X,Y	10,12
	24,26			16,16.2	6,9	8,11
	16,18	11			2	

GDMDA9 — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,17	17,24	10,11	16	9,13	
	11	10,14	13,16	20	12	10,12
	14	13.2,14	30,32	15	X,Y	10,12
	24,26	9,13	10,12	16,16.2	6,9	8,11
	16,18	11	18	18		

GQXN4Q — GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,17	17,24	10,11	16	9,13	
	11	10,14	13,16	20	12	10,12
	14	13.2,14	30,32	15	X,Y	10,12
	24,26			16,16.2	6,9	8,11
	16,18	11			2	

HJQGZ8 — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,17	17,24	10,11	16,16	9,13	
	11,11	10,14	13,16	20,20	12,12	10,12
	14,14	13.2,14	30,32	15,15	X,Y	10,12
	24,26	9,13	10,12	16,16.2	6,9	8,11
	16,18	11	18	18		

HPX7GE — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,17	17,24	10,11	16	9,13	
	11	10,14	13,16	20	12	10,12
	14	13.2,14	30,32	15	X,Y	10,12
	24,26	9,13	10,12		6,9	8,11
	16,18	11				

HPYZZK — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,17	17,24	10,11	16	9,13	
	11	10,14	13,16	20	12	10,12
	14	13.2,14	30,32	15	X,Y	10,12
	24,26			16,16.2	6,9	8,11
	16,18	11			2	

HWWPJA — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	12,17	17,24	10,11	16	9,13	
	11	10,14	13,16	20	12	10,12
	14	13.2,14	30,32	15	X,Y	10,12
	24,26			16,16.2	6,9	8,11
	16,18	11			2	

TABLE 1

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

Item 2 - STR Results

J72ZNE   PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26	9,13	10,12		6,9	8,11
16,18	11				

J7EVRX   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11,0			2,0	

JUNYQZ   Identifiler® Plus

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,24		16,16	9,13	
11,11	10,14			12,12	10,12
14,14	13.2,14	30,32		X,Y	10,12
24,26				6,9	8,11
16,18					

K6L3R9   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

KENK3B   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

KMHKLA   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

KMKAQ8   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,24	10,11	16,16	9,13	--
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26	--	--	16,16.2	6,9	8,11
16,18	11	--	--	2	

TABLE 1

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

Item 2 - STR Results

KRF4N9 PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26	9,13	10,12		6,9	8,11
16,18	11				

(Item 2)

KT9ZBG GlobalFiler™ Express

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

(Item 2)

L8KV4H GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

(Item 2)

MKNJQ7 GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

(Item 2)

MMFG66 GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

(Item 2)

NMCC42 PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26	9,13	10,12	16,16.2	6,9	8,11
16,18	11	18	18		

(Item 2)

P6367A GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

(Item 2)

TABLE 1

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

Item 2 - STR Results

WebCode / Item						
P8WTN7 2	GlobalFiler™					
	12,17	17,24	10,11	16	9,13	
	11	10,14	13,16	20	12	10,12
	14	13.2,14	30,32	15	X,Y	10,12
	24,26			16,16.2	6,9	8,11
	16,18	11			2	
Q88XV3 2	GlobalFiler™					
	12,17	17,24	10,11	16	9,13	
	11	10,14	13,16	20	12	10,12
	14	13.2,14	30,32	15	X,Y	10,12
	24,26			16,16.2	6,9	8,11
	16,18	11			2	
QABTE6 2	GlobalFiler™					
	12,17	17,24	10,11	16	9,13	
	11	10,14	13,16	20	12	10,12
	14	13.2,14	30,32	15	X,Y	10,12
	24,26			16,16.2	6,9	8,11
	16,18	11			2	
QAYVAZ 2	GlobalFiler™					
	12,17	17,24	10,11	16,16	9,13	
	11,11	10,14	13,16	20,20	12,12	10,12
	14,14	13.2,14	30,32	15,15	X,Y	10,12
	24,26			16,16.2	6,9	8,11
	16,18	11			2	
QM3EP8 2	PowerPlex® Fusion					
	12,17	17,24	10,11	16	9,13	
	11	10,14	13,16	20	12	10,12
	14	13.2,14	30,32	15	X,Y	10,12
	24,26	9,13	10,12		6,9	8,11
	16,18	11				
QNW34W 2	PowerPlex® Fusion 6C					
	12,17	17,24	10,11	16,16	9,13	
	11,11	10,14	13,16	20,20	12,12	10,12
	14,14	13.2,14	30,32	15,15	X,Y	10,12
	24,26	9,13	10,12	16,16.2	6,9	8,11
	16,18	11	18	18		
QYT7AB 2	Identifiler® Plus					
		17,24		16,16	9,13	
	11,11	10,14			12,12	10,12
	14,14	13.2,14	30,32		X,Y	10,12
	24,26				6,9	8,11
	16,18					

TABLE 1

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

Item 2 - STR Results

QZCPG4 — PowerPlex® Fusion 5C — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26	9,13	10,12		6,9	8,11
16,18	11				

R2FAD3 — GlobalFiler™ — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

T42BYF — Identifiler® Plus — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
	17,24		16,16	9,13	
11,11	10,14			12,12	10,12
14,14	13.2,14	30,32		X,Y	10,12
24,26				6,9	8,11
16,18					

TY7JNX — GlobalFiler™ — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

UR3UN6 — GlobalFiler™ RapidHIT™ ID ACE GlobalFiler™ Express — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

VCPLJV — PowerPlex® Fusion 6C — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26	9,13	10,12	16,16.2	6,9	8,11
16,18	11	18	18		

VFPR38 — PowerPlex® Fusion 6c — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26	9,13	10,12	16,16.2	6,9	8,11
16,18	11	18	18		

TABLE 1

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

Item 2 - STR Results

VTAE8Y — GlobalFiler™ (Item 2)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

VYJP3E — Identifiler® Plus (Item 2)

	D2S1338		D3S1358	D5S818	
	17,24		16,16	9,13	
11,11	10,14			12,12	10,12
14,14	13.2,14	30,32		X,Y	10,12
24,26				6,9	8,11
16,18					

W2NHUR — PowerPlex® Fusion 6C (Item 2)

12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26	9,13	10,12	16,16.2	6,9	8,11
16,18	11	18	18		

W9NZA4 — GlobalFiler™ (Item 2)

12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

WEQ7N8 — GlobalFiler™ (Item 2)

12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

WND83V — GlobalFiler™ (Item 2)

12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

WYADWU — GlobalFiler™ (Item 2)

12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11			2	

TABLE 1

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

Item 2 - STR Results

YE2TDY — PowerPlex® Fusion 5C — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26	9,13	10,12		6,9	8,11
16,18	11				

YUVG6P — PowerPlex® Fusion 6C — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26	9,13	10,12	16,16.2	6,9	8,11
16,18	11	18	18		

Z2CDM6 — PowerPlex® Fusion — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26	9,13	10,12		6,9	8,11
16,18	11				

Z33ETT — Investigator® 24plex — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11				

Z678K7 — GlobalFiler™ — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,24	10,11	16,16	9,13	
11,11	10,14	13,16	20,20	12,12	10,12
14,14	13.2,14	30,32	15,15	X,Y	10,12
24,26			16,16.2	6,9	8,11
16,18	11,11			2	

ZMC9KY — PowerPlex® Fusion — Item 2

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,24	10,11	16	9,13	
11	10,14	13,16	20	12	10,12
14	13.2,14	30,32	15	X,Y	10,12
24,26	9,13	10,12		6,9	8,11
16,18	11				

TABLE 1

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

Item 3 - STR Results

27GBVA — Identifiler® Plus — Item 3

	17,20		16,17	11,11	
8,11	10,15			8,12	10,11
11,13	13,14	31,32.2		X,Y	10,10
24,24				6,9	8,8
16,18					

3XH96G — PowerPlex® 21 — Item 3

12,17	17,20		16,17	11,11	12,18
8,11	10,15		15,22	8,12	10,11
11,13	13,14	31,32.2		X,Y	10,10
24,24	11,11	7,14		6,9	8,8
16,18					

42YQ2T — GlobalFiler™ (STRMix) — Item 3

12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

4A9JRE — Identifiler® Plus — Item 3

	17,20		16,17	11,11	
8,11	10,15			8,12	10,11
11,13	13,14	31,32.2		X,Y	10,10
24,24				6,9	8,8
16,18					

4MZ7ZV — GlobalFiler™ — Item 3

12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

62ACNY — GlobalFiler™ — Item 3

12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

62XH7E — Investigator® 24plex — Item 3

12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11				

TABLE 1

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

Item 3 - STR Results

WebCode / Item	D1/D7/D18/FGA/vWA	D2S1338/D8/D19/PentaD/DYS391	D2S441/D10/D21/PentaE/DYS570	D3S1358/D12/D22/SE33/DYS576	D5S818/D13/Amelogenin/TH01/YIndel	D6S1043/D16/CSF1PO/TPOX
6436NP GlobalFiler™	12,17	17,20	10,14	16,17	11	
3	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
6KLYCT PowerPlex® Fusion	12,17	17,20	10,14	16,17	11	
3	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				
6W4F6Y GlobalFiler™	12,17	17,20	10,14	16,17	11	
3	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
76QXWD Identifiler® Plus		17,20		16,17	11,11	
3	8,11	10,15			8,12	10,11
	11,13	13,14	31,32.2		X,Y	10,10
	24,24				6,9	8,8
	16,18					
77JUJL GlobalFiler™	12,17	17,20	10,14	16,17	11	
3	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
7D4TDZ GlobalFiler™	12,17	17,20	10,14	16,17	11	
3	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
7NN2XN GlobalFiler™	12,17	17,20	10,14	16,17	11	
3	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	

TABLE 1

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

Item 3 - STR Results

7UUT7L — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

87YD3J — PowerPlex® Fusion 6C (STRmix) (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14	12,22.2	6,9	8
16,18	11	20	18		

8F86AT — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

8G3NCU — PowerPlex® Fusion 6C (STRmix) (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	11,11	7,14	12,22.2	6,9	8,8
16,18	11	20	18		

8YKJRM — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

9DVMQM — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

9DVPCL — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

TABLE 1

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

Item 3 - STR Results

9HRDVD PowerPlex® Fusion 6C (STRmix) — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	11,11	7,14	12,22.2	6,9	8,8
16,18	11	20	18		

A7RZCT NGM SElect — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17		
	10,15	15,15	15,22		10,11
11,13	13,14	31,32.2	11,15	X,Y	
24,24			12,22.2	6,9	
16,18					

A9GCAD PowerPlex® Fusion 6C (STRmix V2.5.11) — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	11,11	7,14	12,22.2	6,9	8,8
16,18	11	20	18		

AL6C6L GlobalFiler™ — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

B4LYQL PowerPlex® Fusion — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14		6,9	8
16,18	11				

B9XR3K PowerPlex® Fusion 6C — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	11,11	7,14	12,22.2	6,9	8,8
16,18	11	20	18		

BA7Z8Y Identifiler® Plus — Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
	17,20		16,17	11,11	
8,11	10,15			8,12	10,11
11,13	13,14	31,32.2		X,Y	10,10
24,24				6,9	8,8
16,18					

TABLE 1

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

Item 3 - STR Results

BTGR8F	PowerPlex® Fusion 6C (STRmix)					
	12,17	17,20	10,14	16,17	11	
3	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18		
BWKPH9	PowerPlex® Fusion 6C (STRmix)					
	12,17	17,20	10,14	16,17	11	
3	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18		
C99AEP	GlobalFiler™					
	12,17	17,20	10,14	16,17	11,11	
3	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11			2	
CDYJJG	GlobalFiler™					
	12,17	17,20	10,14	16,17	11	
3	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	
CMP4PE	GlobalFiler™					
	12,17	17,20	10,14	16,17	11,11	
3	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11			2	
CUBX7K	PowerPlex® Fusion 5C					
	12,17	17,20	10,14	16,17	11	
3	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				
CWFPVD	GlobalFiler™					
	12,17	17,20	10,14	16,17	11,11	
3	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11			2	

TABLE 1

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

Item 3 - STR Results

D7H6LH — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

DU7XHQ — GlobalFiler™ Express (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

DX6EVK — PowerPlex® Fusion 5C (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14		6,9	8
16,18	11				

EDCRPM — PowerPlex® Fusion 6C (STRmix) (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	11,11	7,14	12,22.2	6,9	8,8
16,18	11	20	18		

EL66KF — PowerPlex® Fusion 6C (STRmix V2.5.11) (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	11,11	7,14	12,22.2	6,9	8,8
16,18	11	20	18		

F2E9NM — PowerPlex® Fusion 6C (STRmix) (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14	12,22.2	6,9	8
16,18	11	20	18		

FADX8C — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

TABLE 1

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

Item 3 - STR Results

FGTGPQ GlobalFiler™

Item	D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
3	12,17	17,20	10,14	16,17	11,11	
	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11			2	

FWNYEN GlobalFiler™

Item						
3	12,17	17,20	10,14	16,17	11	
	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	

GDMDA9 PowerPlex® Fusion 6C (STRmix)

Item						
3	12,17	17,20	10,14	16,17	11	
	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14	12,22.2	6,9	8
	16,18	11	20	18		

GQXN4Q GlobalFiler™

Item						
3	12,17	17,20	10,14	16,17	11	
	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	

HJQGZ8 PowerPlex® Fusion 6C

Item						
3	12,17	17,20	10,14	16,17	11,11	
	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24	11,11	7,14	12,22.2	6,9	8,8
	16,18	11	20	18		

HPX7GE PowerPlex® Fusion

Item						
3	12,17	17,20	10,14	16,17	11	
	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				

HPYZZK GlobalFiler™ (STRmix)

Item						
3	12,17	17,20	10,14	16,17	11	
	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	

TABLE 1

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

Item 3 - STR Results

HWWPJA — GlobalFiler™ (Item 3)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

J72ZNE — PowerPlex® Fusion 5C (Item 3)

12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14		6,9	8
16,18	11				

J7EVRX — GlobalFiler™ (Item 3)

12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11,0			2,0	

JGX84B — PowerPlex® Fusion 6C (Item 3)

12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	11,11	7,14	12,22.2	6,9	8,8
16,18	11	20	18		

JUNYQZ — Identifiler® Plus (Item 3)

	17,20		16,17	11,11	
8,11	10,15			8,12	10,11
11,13	13,14	31,32.2		X,Y	10,10
24,24				6,9	8,8
16,18					

K6L3R9 — GlobalFiler™ (STRmix) (Item 3)

12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

KMHKLA — GlobalFiler™ (Item 3)

12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

TABLE 1

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

Item 3 - STR Results

KMKAQ8 — GlobalFiler™ — Item 3

D1S1656 / etc.					
12,17	17,20	10,14	16,17	11,11	--
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	--	--	12,22.2	6,9	8,8
16,18	11	--	--	2	

KRF4N9 — PowerPlex® Fusion — Item 3

12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14		6,9	8
16,18	11				

KT9ZBG — GlobalFiler™ Express — Item 3

12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

L3CERA — PowerPlex® Fusion 6C — Item 3

12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	11,11	7,14	12,22.2	6,9	8,8
16,18	11	20	18		

L8KV4H — GlobalFiler™ — Item 3

12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

MKNJQ7 — GlobalFiler™ — Item 3

12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

MMFG66 — GlobalFiler™ — Item 3

12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

TABLE 1

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

Item 3 - STR Results

NMCC42   PowerPlex® Fusion 6C (STRmix)   Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	11,11	7,14	12,22.2	6,9	8,8
16,18	11	20	18		

P6367A   GlobalFiler™   Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	[X],Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

P8WTN7   GlobalFiler™   Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

Q88XV3   GlobalFiler™   Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

QAYVAZ   GlobalFiler™   Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

QM3EP8   PowerPlex® Fusion   Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14		6,9	8
16,18	11				

QNW34W   PowerPlex® Fusion 6C   Item 3

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	11,11	7,14	12,22.2	6,9	8,8
16,18	11	20	18		

TABLE 1

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

Item 3 - STR Results

QYT7AB — Identifiler® Plus — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,20		16,17	11,11	
8,11	10,15			8,12	10,11
11,13	13,14	31,32.2		X,Y	10,10
24,24				6,9	8,8
16,18					

QZCPG4 — PowerPlex® Fusion 5C — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14		6,9	8
16,18	11				

R2FAD3 — GlobalFiler™ — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

T42BYF — Identifiler® Plus — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,20		16,17	11,11	
8,11	10,15			8,12	10,11
11,13	13,14	31,32.2		X,Y	10,10
24,24				6,9	8,8
16,18					

TY7JNX — GlobalFiler™ — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

UR3UN6 — GlobalFiler™ — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

VCPLJV — PowerPlex® Fusion 6C (STRmix) — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14	12,22.2	6,9	8
16,18	11	20	18		

TABLE 1

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

Item 3 - STR Results

VFPR38 — PowerPlex® Fusion 6c (STRmix) — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24	11	7,14	12,22.2	6,9	8
16,18	11	20	18		

VTAE8Y — GlobalFiler™ — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

VYJP3E — Identifiler® Plus — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,20		16,17	11,11	
8,11	10,15			8,12	10,11
11,13	13,14	31,32.2		X,Y	10,10
24,24				6,9	8,8
16,18					

W2NHUR — PowerPlex® Fusion 6C (STRmix) — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24	11,11	7,14	12,22.2	6,9	8,8
16,18	11	20	18		

W9NZA4 — GlobalFiler™ — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

WEQ7N8 — GlobalFiler™ — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11,11	
8,11	10,15	15,15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10,10
24,24			12,22.2	6,9	8,8
16,18	11			2	

WND83V — GlobalFiler™ — Item 3

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,17	17,20	10,14	16,17	11	
8,11	10,15	15	15,22	8,12	10,11
11,13	13,14	31,32.2	11,15	X,Y	10
24			12,22.2	6,9	8
16,18	11			2	

TABLE 1

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

Item 3 - STR Results

WYADWU GlobalFiler™

Item						
3	12,17	17,20	10,14	16,17	11,11	
	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24				12,22.2	6,9	8,8
	16,18	11			2	

X7PDQW PowerPlex® Fusion 6C

Item						
3	12,17	17,20	10,14	16,17	11,11	
	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24	11,11	7,14	12,22.2	6,9	8,8
	16,18	11	20	18		

YE2TDY PowerPlex® Fusion 5C

Item						
3	12,17	17,20	10,14	16,17	11	
	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				

YUVG6P PowerPlex® Fusion 6C (STRmix V2.5.11)

Item						
3	12,17	17,20	10,14	16,17	11,11	
	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24	11,11	7,14	12,22.2	6,9	8,8
	16,18	11	20	18		

Z2CDM6 PowerPlex® Fusion

Item						
3	12,17	17,20	10,14	16,17	11	
	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				

Z33ETT Investigator® 24plex

Item						
3	12,17	17,20	10,14	16,17	11,11	
	8,11	10,15	15,15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10,10
	24,24			12,22.2	6,9	8,8
	16,18	11				

Z678K7 GlobalFiler™

Item						
3	12,17	17,20	10,14	16,17	11	
	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24			12,22.2	6,9	8
	16,18	11			2	

TABLE 1

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

Item 3 - STR Results

ZMC9KY	PowerPlex® Fusion					
	12,17	17,20	10,14	16,17	11	
3	8,11	10,15	15	15,22	8,12	10,11
	11,13	13,14	31,32.2	11,15	X,Y	10
	24	11	7,14		6,9	8
	16,18	11				

TABLE 1

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

Item 4 - STR Results

27GBVA — Identifiler® Plus — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	20,21		14,14	12,12	
9,10	11,15			8,12	10,12
15,19	14,15	28,32.2		X,Y	10,13
20,23				9,9	8,11
15,18					

3XH96G — PowerPlex® 21 — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21		14,14	12,12	12,12
9,10	11,15		18,21	8,12	10,12
15,19	14,15	28,32.2		X,Y	10,13
20,23	11,11	12,20		9,9	8,11
15,18					

42YQ2T — GlobalFiler™ (STRmix) — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

4A9JRE — Identifiler® Plus — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	20,21		14,14	12,12	
9,10	11,15			8,12	10,12
15,19	14,15	28,32.2		X,Y	10,13
20,23				9,9	8,11
15,18					

4MZ7ZV — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

62ACNY — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

62XH7E — Investigator® 24plex — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10				

TABLE 1

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

Item 4 - STR Results

6436NP GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

Item 4

6KLYCT PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

Item 4

6W4F6Y GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

Item 4

76QXWD Identifiler® Plus

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	20,21		14,14	12,12	
9,10	11,15			8,12	10,12
15,19	14,15	28,32.2		X,Y	10,13
20,23				9,9	8,11
15,18					

Item 4

77JUJL GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

Item 4

7D4TDZ GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

Item 4

7NN2XN GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

TABLE 1

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

Item 4 - STR Results

7UUT7L — GlobalFiler™ (Item 4)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

87YD3J — PowerPlex® Fusion 6C (STRmix) (Item 4)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20	18,28.2	9	8,11
15,18	10	17	19		

8F86AT — GlobalFiler™ (Item 4)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

8G3NCU — PowerPlex® Fusion 6C (Item 4)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

8YKJRM — GlobalFiler™ (Item 4)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

9DVMQM — GlobalFiler™ (Item 4)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

9DVPCL — GlobalFiler™ (Item 4)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

TABLE 1

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

Item 4 - STR Results

9HRDVD   PowerPlex® Fusion 6C   (Item 4)

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

A7RZCT   NGM SElect   (Item 4)

16,17.3	20,21	14,14	14,14		
	11,15	13,17	18,21		10,12
15,19	14,15	28,32.2	15,15	X,Y	
20,23			18,28.2	9,9	
15,18					

A9GCAD   PowerPlex® Fusion 6C   (Item 4)

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

AL6C6L   GlobalFiler™   (Item 4)

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

B4LYQL   PowerPlex® Fusion   (Item 4)

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

B9XR3K   PowerPlex® Fusion 6C   (Item 4)

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

BA7Z8Y   Identifiler® Plus   (Item 4)

	20,21		14,14	12,12	
9,10	11,15			8,12	10,12
15,19	14,15	28,32.2		X,Y	10,13
20,23				9,9	8,11
15,18					

TABLE 1

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

Item 4 - STR Results

BTGR8F PowerPlex® Fusion 6C (STRmix)

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20	18,28.2	9	8,11
15,18	10	17	19		

(Item: 4)

BWKPH9 PowerPlex® Fusion 6C (STRmix)

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20	18,28.2	9	8,11
15,18	10	17	19		

(Item: 4)

C99AEP GlobalFiler™

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10,10			2	

(Item: 4)

CDYJJG GlobalFiler™

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

(Item: 4)

CMP4PE GlobalFiler™

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

(Item: 4)

CUBX7K PowerPlex® Fusion 5C

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

(Item: 4)

CWFPVD GlobalFiler™

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

(Item: 4)

TABLE 1

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

Item 4 - STR Results

D7H6LH — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

DU7XHQ — GlobalFiler™ Express

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

DX6EVK — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

EDCRPM — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

EL66KF — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

F2E9NM — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20	18,28.2	9	8,11
15,18	10	17	19		

FADX8C — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

TABLE 1

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

Item 4 - STR Results

FGTGPQ — GlobalFiler™ (Item 4)

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

FWNYEN — GlobalFiler™ (Item 4)

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

GDMDA9 — PowerPlex® Fusion 6C (STRmix) (Item 4)

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20	18,28.2	9	8,11
15,18	10	17	19		

GQXN4Q — GlobalFiler™ (Item 4)

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

HJQGZ8 — PowerPlex® Fusion 6C (Item 4)

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

HPX7GE — PowerPlex® Fusion (Item 4)

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

HPYZZK — GlobalFiler™ (Item 4)

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

TABLE 1

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

Item 4 - STR Results

HWWPJA — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

J72ZNE — PowerPlex® Fusion 5C — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

J7EVRX — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10,0			2,0	

JGX84B — PowerPlex® Fusion 6C — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

JUNYQZ — Identifiler® Plus — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	20,21		14,14	12,12	
9,10	11,15			8,12	10,12
15,19	14,15	28,32.2		X,Y	10,13
20,23				9,9	8,11
15,18					

K6L3R9 — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

KMHKLA — GlobalFiler™ — Item 4

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

TABLE 1

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

Item 4 - STR Results

KMKAQ8 — GlobalFiler™ — Item 4

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16,17.3	20,21	14,14	14,14	12,12	--
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	--	--	18,28.2	9,9	8,11
15,18	10	--	--	2	

KRF4N9 — PowerPlex® Fusion — Item 4

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

KT9ZBG — GlobalFiler™ Express — Item 4

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

L3CERA — PowerPlex® Fusion 6C — Item 4

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

L8KV4H — GlobalFiler™ — Item 4

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

MKNJQ7 — GlobalFiler™ — Item 4

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

MMFG66 — GlobalFiler™ — Item 4

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

TABLE 1

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

Item 4 - STR Results

NMCC42 — PowerPlex® Fusion 6C — Item 4

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

P6367A — GlobalFiler™ — Item 4

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	[X],Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

P8WTN7 — GlobalFiler™ — Item 4

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

Q88XV3 — GlobalFiler™ — Item 4

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

QAYVAZ — GlobalFiler™ — Item 4

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

QM3EP8 — PowerPlex® Fusion — Item 4

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

QNW34W — PowerPlex® Fusion 6C — Item 4

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

TABLE 1

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

Item 4 - STR Results

QYT7AB   Identifiler® Plus

	20,21		14,14	12,12	
9,10	11,15			8,12	10,12
15,19	14,15	28,32.2		X,Y	10,13
20,23				9,9	8,11
15,18					

(Item 4)

QZCPG4   PowerPlex® Fusion 5C

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20		9	8,11
15,18	10				

(Item 4)

R2FAD3   GlobalFiler™

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

(Item 4)

T42BYF   Identifiler® Plus

	20,21		14,14	12,12	
9,10	11,15			8,12	10,12
15,19	14,15	28,32.2		X,Y	10,13
20,23				9,9	8,11
15,18					

(Item 4)

TY7JNX   GlobalFiler™

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

(Item 4)

UR3UN6   GlobalFiler™

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

(Item 4)

VCPLJV   PowerPlex® Fusion 6C (STRmix)

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20	18,28.2	9	8,11
15,18	10	17	19		

(Item 4)

TABLE 1

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

Item 4 - STR Results

VFPR38 — PowerPlex® Fusion 6c (STRmix) — Item 4

D1S1656 / D7S820 / D18S51 / FGA / vWA	D2S1338 / D8S1179 / D19S433 / Penta D / DYS391	D2S441 / D10S1248 / D21S11 / Penta E / DYS570	D3S1358 / D12S391 / D22S1045 / SE33 / DYS576	D5S818 / D13S317 / Amelogenin / TH01 / Y Indel	D6S1043 / D16S539 / CSF1PO / TPOX
16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23	11	12,20	18,28.2	9	8,11
15,18	10	17	19		

VTAE8Y — GlobalFiler™ — Item 4

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

VYJP3E — Identifiler® Plus — Item 4

	20,21		14,14	12,12	
9,10	11,15			8,12	10,12
15,19	14,15	28,32.2		X,Y	10,13
20,23				9,9	8,11
15,18					

W2NHUR — PowerPlex® Fusion 6C — Item 4

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23	11,11	12,20	18,28.2	9,9	8,11
15,18	10	17	19		

W9NZA4 — GlobalFiler™ — Item 4

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

WEQ7N8 — GlobalFiler™ — Item 4

16,17.3	20,21	14,14	14,14	12,12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15,15	X,Y	10,13
20,23			18,28.2	9,9	8,11
15,18	10			2	

WND83V — GlobalFiler™ — Item 4

16,17.3	20,21	14	14	12	
9,10	11,15	13,17	18,21	8,12	10,12
15,19	14,15	28,32.2	15	X,Y	10,13
20,23			18,28.2	9	8,11
15,18	10			2	

TABLE 1

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

Item 4 - STR Results

WYADWU	GlobalFiler™					
	16,17.3	20,21	14,14	14,14	12,12	
4	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10			2	
X7PDQW	PowerPlex® Fusion 6C					
	16,17.3	20,21	14,14	14,14	12,12	
4	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		
YE2TDY	PowerPlex® Fusion 5C					
	16,17.3	20,21	14	14	12	
4	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23	11	12,20		9	8,11
	15,18	10				
YUVG6P	PowerPlex® Fusion 6C					
	16,17.3	20,21	14,14	14,14	12,12	
4	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23	11,11	12,20	18,28.2	9,9	8,11
	15,18	10	17	19		
Z2CDM6	PowerPlex® Fusion					
	16,17.3	20,21	14	14	12	
4	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23	11	12,20		9	8,11
	15,18	10				
Z33ETT	Investigator® 24plex					
	16,17.3	20,21	14,14	14,14	12,12	
4	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15,15	X,Y	10,13
	20,23			18,28.2	9,9	8,11
	15,18	10				
Z678K7	GlobalFiler™					
	16,17.3	20,21	14	14	12	
4	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23			18,28.2	9	8,11
	15,18	10			2	

TABLE 1

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

Item 4 - STR Results

ZMC9KY	PowerPlex® Fusion					
	16,17.3	20,21	14	14	12	
4	9,10	11,15	13,17	18,21	8,12	10,12
	15,19	14,15	28,32.2	15	X,Y	10,13
	20,23	11	12,20		9	8,11
	15,18	10				

YSTR Amplification Kit(s) & Results

TABLE 2

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

Item 1 - YSTR Results

6436NP — Yfiler™ Plus (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	38	15	11,15	13	29	24	11	11	13
	DYS437 14	DYS438 11	DYS439 10	DYS448 19	DYS449 33	DYS456 16	DYS458 15	DYS460 11	DYS481 23
	DYS518 42	DYS533 12	DYS549	DYS570 20	DYS576 18	DYS627 16	DYS635 24	DYS643	Y GATA H4 13

6KLYCT — Yfiler™ Plus (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	38	15	11,15	13	29	24	11	11	13
	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

6W4F6Y — Yfiler™ (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	11,15	13	29	24	11	11	13
	14	11	10	19		16	15		
							24		13

76QXWD — PowerPlex® Y 23 (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	11,15	13	29	24	11	11	13
	14	11	10	19		16	15		23
	12	12		20	18		24	10	13

77JUJL — Yfiler™ Plus (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	38	15	11,15	13	29	24	11	11	13
	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

7D4TDZ — Yfiler™ (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	11,15	13	29	24	11	11	13
	14	11	10	19		16	15		
							24		13

7NN2XN — Yfiler™ Plus (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	38	15	11,15	13	29	24	11	11	13
	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

87YD3J — PowerPlex® Y 23 (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	11,15	13	29	24	11	11	13
	14	11	10	19		16	15		23
	12	12		20	18		24	10	13

8F86AT — Yfiler™ Plus (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	38,38	15	11,15	13	29	24	11	11	13
	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

8YKJRM — Yfiler™ Plus (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	38	15	11,15	13	29	24	11	11	13
	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

9DVMQM — Yfiler™ Plus (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	38	15	11,15	13	29	24	11	11	13
	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

TABLE 2

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

Item 1 - YSTR Results

| WebCode / Item | Amplification Kit | DYF387S1 | DYS19 | DYS385 | DYS389-I | DYS389-II | DYS390 | DYS391 | DYS392 | DYS393 |
| | | DYS437 | DYS438 | DYS439 | DYS448 | DYS449 | DYS456 | DYS458 | DYS460 | DYS481 |
		DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
9DVPCL	Yfiler™ Plus	38	15	11,15	13	29	24	11	11	13
1		14	11	10	19	33	16	15	11	23
		42	12		20	18	16	24		13
9HRDVD	Yfiler™		15	11,15	13	29	24	11	11	13
1		14	11	10	19		16	15		
								24		13
A9GCAD	Yfiler™		15	11,15	13	29	24	11	11	13
1		14	11	10	19		16	15		
								24		13
B4LYQL	Yfiler™ Plus	38	15	11,15	13	29	24	11	11	13
1		14	11	10	19	33	16	15	11	23
		42	12		20	18	16	24		13
BTGR8F	PowerPlex® Y 23		15	11,15	13	29	24	11	11	13
1		14	11	10	19		16	15		23
			12	12	20	18		24	10	13
BWKPH9	PowerPlex® Y 23		15	11,15	13	29	24	11	11	13
1		14	11	10	19		16	15		23
			12	12	20	18		24	10	13
C99AEP	Yfiler™ Plus	38	15	11,15	13	29	24	11	11	13
1		14	11	10	19	33	16	15	11	23
		42	12		20	18	16	24		13
CDYJJG	Yfiler™ Plus	38	15	11,15	13	29	24	11	11	13
1		14	11	10	19	33	16	15	11	23
		42	12		20	18	16	24		13
CMP4PE	Yfiler™		15	11,15	13	29	24	11	11	13
1		14	11	10	19		16	15		
								24		13
CUBX7K	Yfiler™ Plus	38	15	11,15	13	29	24	11	11	13
1		14	11	10	19	33	16	15	11	23
		42	12		20	18	16	24		13
D7H6LH	Yfiler™ Plus	38	15	11,15	13	29	24	11	11	13
1		14	11	10	19	33	16	15	11	23
		42	12		20	18	16	24		13
DX6EVK	Yfiler™ Plus	38	15	11,15	13	29	24	11	11	13
1		14	11	10	19	33	16	15	11	23
		42	12		20	18	16	24		13

TABLE 2

Each sample occupies three allele rows. The column headers list three loci per column (top line / middle line / bottom line), matching the three allele rows.

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

Item 1 - YSTR Results

WebCode / Item	col1	col2	col3	col4	col5	col6	col7	col8	col9
EDCRPM — PowerPlex® Y 23									
		15	11,15	13	29	24	11	11	13
1	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
EL66KF — Yfiler™									
		15	11,15	13	29	24	11	11	13
1	14	11	10	19		16	15		
							24		13
FWNYEN — Yfiler™									
		15	11,15	13	29	24	11	11	13
1	14	11	10	19		16	15		
							24		13
GQXN4Q — Yfiler™									
		15	11,15	13	29	24	11	11	13
1	14	11	10	19		16	15		
							24		13
HJQGZ8 — Yfiler™									
		15	11,15	13	29	24	11	11	13
1	14	11	10	19		16	15		
							24		13
HPX7GE — Yfiler™ Plus									
	38	15	11,15	13	29	24	11	11	13
1	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
HWWPJA — Yfiler™ Plus									
	38	15	11,15	13	29	24	11	11	13
1	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
JUNYQZ — PowerPlex® Y 23									
		15	11,15	13	29	24	11	11	13
1	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
KMHKLA — Yfiler™ Plus									
	38	15	11,15	13	29	24	11	11	13
1	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
MMFG66 — Yfiler™									
		15	11,15	13	29	24	11	11	13
1	14	11	10	19		16	15		
							24		13
NMCC42 — Yfiler™									
		15	11,15	13	29	24	11	11	13
1	14	11	10	19		16	15		
							24		13
QAYVAZ — Yfiler™									
		15	11,15	13	29	24	11	11	13
1	14	11	10	19		16	15		
							24		13

TABLE 2

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

Item 1 - YSTR Results

QM3EP8 — Yfiler™ Plus (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	38	15	11,15	13	29	24	11	11	13
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	14	11	10	19	33	16	15	11	23
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
	42	12		20	18	16	24		13

QNW34W — Yfiler™ (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	11,15	13	29	24	11	11	13
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	14	11	10	19		16	15		
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
							24		13

R2FAD3 — Yfiler™ Plus (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	38	15	11,15	13	29	24	11	11	13
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	14	11	10	19	33	16	15	11	23
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
	42	12		20	18	16	24		13

VCPLJV — PowerPlex® Y 23 (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	11,15	13	29	24	11	11	13
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	14	11	10	19		16	15		23
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
	12	12		20	18		24	10	13

VTAE8Y — Yfiler™ Plus (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	38	15	11,15	13	29	24	11	11	13
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	14	11	10	19	33	16	15	11	23
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
	42	12		20	18	16	24		13

W2NHUR — Yfiler™ (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	11,15	13	29	24	11	11	13
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	14	11	10	19		16	15		
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
							24		13

WEQ7N8 — Yfiler™ Plus (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	38,38	15	11,15	13	29	24	11	11	13
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	14	11	10	19	33	16	15	11	23
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
	42	12		20	18	16	24		13

WND83V — Yfiler™ Plus (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	38	15	11,15	13	29	24	11	11	13
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	14	11	10	19	33	16	15	11	23
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
	42	12		20	18	16	24		13

YE2TDY — Yfiler™ Plus (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	38	15	11,15	13	29	24	11	11	13
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	14	11	10	19	33	16	15	11	23
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
	42	12		20	18	16	24		13

YUVG6P — Yfiler™ (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	11,15	13	29	24	11	11	13
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	14	11	10	19		16	15		
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
							24		13

Z2CDM6 — Yfiler™ Plus (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	38	15	11,15	13	29	24	11	11	13
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	14	11	10	19	33	16	15	11	23
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
	42	12		20	18	16	24		13

ZMC9KY — Yfiler™ Plus (Item 1)

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	38	15	11,15	13	29	24	11	11	13
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	14	11	10	19	33	16	15	11	23
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
	42	12		20	18	16	24		13

TABLE 2

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

Item 2 - YSTR Results

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
6436NP — Yfiler™ Plus									
	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
6KLYCT — Yfiler™ Plus									
	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
6W4F6Y — Yfiler™									
		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		
							23		12
76QXWD — PowerPlex® Y 23									
		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		23
	12	14		18	18		23	10	12
77JUJL — Yfiler™ Plus									
	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
7D4TDZ — Yfiler™									
		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		
							23		12
7NN2XN — Yfiler™ Plus									
	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
87YD3J — PowerPlex® Y 23									
		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		23
	12	14		18	18		23	10	12
8F86AT — Yfiler™ Plus									
	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
8YKJRM — Yfiler™ Plus									
	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
9DVMQM — Yfiler™ Plus									
	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
9DVPCL — Yfiler™ Plus									
	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12

TABLE 2

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

Item 2 - YSTR Results

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
9HRDVD — Yfiler™		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		
							23		12
A9GCAD — Yfiler™		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		
							23		12
B4LYQL — Yfiler™ Plus	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
BTGR8F — PowerPlex® Y 23		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		23
	12	14	18	18			23	10	12
BWKPH9 — PowerPlex® Y 23		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		23
	12	14	18	18			23	10	12
C99AEP — Yfiler™ Plus	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
CDYJJG — Yfiler™ Plus	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
CMP4PE — Yfiler™		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		
							23		12
CUBX7K — Yfiler™ Plus	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
D7H6LH — Yfiler™ Plus	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
DX6EVK — Yfiler™ Plus	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
EDCRPM — PowerPlex® Y 23		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		23
	12	14	18	18			23	10	12

TABLE 2

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

Item 2 - YSTR Results

EL66KF	Yfiler™								
		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		
							23		12
FWNYEN	Yfiler™								
		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		
							23		12
GQXN4Q	Yfiler™								
		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		
							23		12
HJQGZ8	Yfiler™								
		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		
							23		12
HPX7GE	Yfiler™ Plus								
	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
HWWPJA	Yfiler™ Plus								
	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
JUNYQZ	PowerPlex® Y 23								
		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		23
	12	14	18	18			23	10	12
KMHKLA	Yfiler™ Plus								
	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
MMFG66	Yfiler™								
		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		
							23		12
NMCC42	Yfiler™								
		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		
							23		12
QAYVAZ	Yfiler™								
		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		
							23		12
QM3EP8	Yfiler™ Plus								
	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12

TABLE 2

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

Item 2 - YSTR Results

WebCode / Item									
QNW34W — Yfiler™									
		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		
							23		12
R2FAD3 — Yfiler™ Plus									
	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
VCPLJV — PowerPlex® Y 23									
		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		23
		12	14	18	18		23	10	12
VTAE8Y — Yfiler™ Plus									
	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
W2NHUR — Yfiler™									
		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		
							23		12
WEQ7N8 — Yfiler™ Plus									
	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
WND83V — Yfiler™ Plus									
	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
YE2TDY — Yfiler™ Plus									
	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
YUVG6P — Yfiler™									
		14	11,14	13	29	24	11	13	13
2	15	12	12	19		15	15		
							23		12
Z2CDM6 — Yfiler™ Plus									
	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12
ZMC9KY — Yfiler™ Plus									
	36,37	14	11,14	13	29	24	11	13	13
2	15	12	12	19	32	15	15	11	23
	37	12		18	18	19	23		12

TABLE 2

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

Item 3 - YSTR Results

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
6436NP — Yfiler™ Plus									
	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
6KLYCT — Yfiler™ Plus									
	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
6W4F6Y — Yfiler™									
		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		
							24		13
76QXWD — PowerPlex® Y 23									
		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
77JUJL — Yfiler™ Plus									
	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
7D4TDZ — Yfiler™									
		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		
							24		13
7NN2XN — Yfiler™ Plus									
	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
87YD3J — PowerPlex® Y 23									
		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
8F86AT — Yfiler™ Plus									
	38,38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
8YKJRM — Yfiler™ Plus									
	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
9DVMQM — Yfiler™ Plus									
	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
9DVPCL — Yfiler™ Plus									
	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

TABLE 2

Amplification Kit — marker groups (each column lists three loci, corresponding top / middle / bottom to the three data rows per sample)

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

Item 3 - YSTR Results

9HRDVD — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		
							24		13

A9GCAD — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		
							24		13

B4LYQL — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

B9XR3K — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		
							24		13

BTGR8F — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		23
		12	12	20	18		24	10	13

BWKPH9 — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		23
		12	12	20	18		24	10	13

C99AEP — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

CDYJJG — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

CMP4PE — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		
							24		13

CUBX7K — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

D7H6LH — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

DX6EVK — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

TABLE 2

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

Item 3 - YSTR Results

Item									
EDCRPM	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		23
	12	12	20	18			24	10	13
EL66KF	Yfiler™								
		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		
							24		13
FWNYEN	Yfiler™								
		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		
							24		13
GQXN4Q	Yfiler™								
		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		
							24		13
HJQGZ8	Yfiler™								
		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		
							24		13
HPX7GE	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
HWWPJA	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
JGX84B	Yfiler™								
		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		
							24		13
JUNYQZ	PowerPlex® Y 23								
		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		23
	12	12	20	18			24	10	13
KMHKLA	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
L3CERA	Yfiler™								
		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		
							24		13
MMFG66	Yfiler™								
		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		
							24		13

TABLE 2

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

Item 3 - YSTR Results

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
NMCC42 Yfiler™		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		
							24		13
QAYVAZ Yfiler™		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		
							24		13
QM3EP8 Yfiler™ Plus	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
QNW34W Yfiler™		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		
							24		13
R2FAD3 Yfiler™ Plus	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
VCPLJV PowerPlex® Y 23		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		23
		12	12	20	18		24	10	13
VTAE8Y Yfiler™ Plus	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
W2NHUR Yfiler™		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		
							24		13
WEQ7N8 Yfiler™ Plus	38,38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
WND83V Yfiler™ Plus	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13
X7PDQW Yfiler™		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		
							24		13
YE2TDY Yfiler™ Plus	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

TABLE 2

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

Item 3 - YSTR Results

YUVG6P	Yfiler™								
		15	11,15	13	29	24	11	11	13
3	14	11	10	19		16	15		
							24		13

Z2CDM6	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

Z33ETT									
	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

ZMC9KY	Yfiler™ Plus								
	38	15	11,15	13	29	24	11	11	13
3	14	11	10	19	33	16	15	11	23
	42	12		20	18	16	24		13

TABLE 2

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

Item 4 - YSTR Results

WebCode									
6436NP	Yfiler™ Plus								
	40	15	14,17	13	29	23	10	11	12
4	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
6KLYCT	Yfiler™ Plus								
	40	15	14,17	13	29	23	10	11	12
4	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
6W4F6Y	Yfiler™								
		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		
							21		11
76QXWD	PowerPlex® Y 23								
		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		22
		11	12	17	19		21	11	11
77JUJL	Yfiler™ Plus								
	40	15	14,17	13	29	23	10	11	12
4	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
7D4TDZ	Yfiler™								
		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		
							21		11
7NN2XN	Yfiler™ Plus								
	40	15	14,17	13	29	23	10	11	12
4	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
87YD3J	PowerPlex® Y 23								
		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		22
		11	12	17	19		21	11	11
8F86AT	Yfiler™ Plus								
	40,40	15	14,17	13	29	23	10	11	12
4	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
8YKJRM	Yfiler™ Plus								
	40	15	14,17	13	29	23	10	11	12
4	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
9DVMQM	Yfiler™ Plus								
	40	15	14,17	13	29	23	10	11	12
4	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
9DVPCL	Yfiler™ Plus								
	40	15	14,17	13	29	23	10	11	12
4	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

TABLE 2

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

Item 4 - YSTR Results

WebCode / Item	Amplification Kit	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
9HRDVD	Yfiler™		15	14,17	13	29	23	10	11	12
4		15	9	12	21		16	16		
								21		11
A9GCAD	Yfiler™		15	14,17	13	29	23	10	11	12
4		15	9	12	21		16	16		
								21		11
B4LYQL	Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4		15	9	12	21	32	16	16	10	22
		37	11		17	19	21	21		11
B9XR3K	Yfiler™		15	14,17	13	29	23	10	11	12
4		15	9	12	21		16	16		
								21		11
BTGR8F	PowerPlex® Y 23		15	14,17	13	29	23	10	11	12
4		15	9	12	21		16	16		22
			11	12	17	19		21	11	11
BWKPH9	PowerPlex® Y 23		15	14,17	13	29	23	10	11	12
4		15	9	12	21		16	16		22
			11	12	17	19		21	11	11
C99AEP	Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4		15	9	12	21	32	16	16	10	22
		37	11		17	19	21	21		11
CDYJJG	Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4		15	9	12	21	32	16	16	10	22
		37	11		17	19	21	21		11
CMP4PE	Yfiler™		15	14,17	13	29	23	10	11	12
4		15	9	12	21		16	16		
								21		11
CUBX7K	Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4		15	9	12	21	32	16	16	10	22
		37	11		17	19	21	21		11
D7H6LH	Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4		15	9	12	21	32	16	16	10	22
		37	11		17	19	21	21		11
DX6EVK	Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4		15	9	12	21	32	16	16	10	22
		37	11		17	19	21	21		11

TABLE 2

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

Item 4 - YSTR Results

WebCode / Item	DYF387S1 / DYS437 / DYS518	DYS19 / DYS438 / DYS533	DYS385 / DYS439 / DYS549	DYS389-I / DYS448 / DYS570	DYS389-II / DYS449 / DYS576	DYS390 / DYS456 / DYS627	DYS391 / DYS458 / DYS635	DYS392 / DYS460 / DYS643	DYS393 / DYS481 / Y GATA H4
EDCRPM — PowerPlex® Y 23		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		22
	11	12	17	19			21	11	11
EL66KF — Yfiler™		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		
							21		11
FWNYEN — Yfiler™		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		
							21		11
GQXN4Q — Yfiler™		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		
							21		11
HJQGZ8 — Yfiler™		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		
							21		11
HPX7GE — Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
HWWPJA — Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
JGX84B — Yfiler™		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		
							21		11
JUNYQZ — PowerPlex® Y 23		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		22
	11	12	17	19			21	11	11
KMHKLA — Yfiler™ Plus	40	15	14,17	13	29	23	10	11	12
4	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
L3CERA — Yfiler™		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		
							21		11
MMFG66 — Yfiler™		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		
							21		11

TABLE 2

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

Item 4 - YSTR Results

NMCC42 — Yfiler™

Item									
		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		
							21		11

QAYVAZ — Yfiler™

Item									
		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		
							21		11

QM3EP8 — Yfiler™ Plus

Item									
	40	15	14,17	13	29	23	10	11	12
4	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

QNW34W — Yfiler™

Item									
		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		
							21		11

R2FAD3 — Yfiler™ Plus

Item									
	40	15	14,17	13	29	23	10	11	12
4	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

VCPLJV — PowerPlex® Y 23

Item									
		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		22
		11	12	17	19		21	11	11

VTAE8Y — Yfiler™ Plus

Item									
	40	15	14,17	13	29	23	10	11	12
4	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

W2NHUR — Yfiler™

Item									
		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		
							21		11

WEQ7N8 — Yfiler™ Plus

Item									
	40,40	15	14,17	13	29	23	10	11	12
4	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

WND83V — Yfiler™ Plus

Item									
	40	15	14,17	13	29	23	10	11	12
4	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

X7PDQW — Yfiler™

Item									
		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		
							21		11

YE2TDY — Yfiler™ Plus

Item									
	40	15	14,17	13	29	23	10	11	12
4	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

TABLE 2

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

Item 4 - YSTR Results

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
YUVG6P	Yfiler™								
		15	14,17	13	29	23	10	11	12
4	15	9	12	21		16	16		
							21		11
Z2CDM6	Yfiler™ Plus								
	40	15	14,17	13	29	23	10	11	12
4	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
Z33ETT									
	40	15	14,17	13	29	23	10	11	12
4	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11
ZMC9KY	Yfiler™ Plus								
	40	15	14,17	13	29	23	10	11	12
4	15	9	12	21	32	16	16	10	22
	37	11		17	19	21	21		11

Additional DNA Results

TABLE 3

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

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

No additional DNA results were reported.

DNA Interpretations

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

TABLE 4

WebCode	Victim (Item 1)		Suspect (Item 2)		WebCode	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
27GBVA	Yes	No	No	No	9DVPCL	Yes	No	No	No
3XH96G	Yes	No	No	No	9HRDVD	Yes	No	No	No
42YQ2T	Yes	No	No	No	A7RZCT	Yes	No	No	No
4A9JRE	Yes	No	No	No	A9GCAD	Yes	No	No	No
4MZ7ZV	Yes	No	No	No	AL6C6L	Yes	No	No	No
62ACNY	Yes	No	No	No	B4LYQL	Yes	No	No	No
62XH7E	Yes	No	No	No	B9XR3K	No Interp	No Interp	No Interp	No Interp
6436NP	Yes	No	No	No	BA7Z8Y	Yes	No	No	No
6KLYCT	Yes	No	No	No	BTGR8F	Yes	No	No	No
6W4F6Y	Yes	No	No	No	BWKPH9	Yes	No	No	No
76QXWD	Yes	No	No	No	C99AEP	Yes	No	No	No
77JUJL	Yes	No	No	No	CDYJJG	Yes	No	No	No
7D4TDZ	Yes	No	No	No	CMP4PE	No Interpretations Reported, DNA Analyzed for Database purposes only.			
7NN2XN	Yes	No	No	No	CUBX7K	Yes	No	No	No
7UUT7L	Yes	No	No	No	CWFPVD	No Interpretations Reported, DNA Analyzed for Database purposes only.			
87YD3J	Yes	No	No	No	D7H6LH	Yes	No	No	No
8F86AT	Yes	No	No	No	DU7XHQ	Yes	No	No	No
8G3NCU	Yes	No	No	No	DX6EVK	Yes	No	No	No
8YKJRM	Yes	No	No	No	EDCRPM	Yes	No	No	No
9DVMQM	Yes	No	No	No	EL66KF	Yes	No	No	No

TABLE 4

WebCode	Victim (Item 1)		Suspect (Item 2)		WebCode	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
F2E9NM	Yes	No	No	No	L8KV4H	Yes	No	No	No
FADX8C	Yes	No	No	No	MKNJQ7	Yes	No	No	No
FGTGPQ	Yes	No	No	No	MMFG66	No Interpretations Reported, DNA Analyzed for Database purposes only.			
FWNYEN	Yes	No	No	No	NMCC42	Yes	No	No	No
GDMDA9	Yes	No	No	No	P6367A	Yes	No	No	No
GQXN4Q	Yes	No	No	No	P8WTN7	No Interp	No Interp	No Interp	No Interp
HJQGZ8	Yes	No	No	No	Q88XV3	Yes	No	No	No
HPX7GE	Yes	No	No	No	QABTE6	No Interpretations Reported, DNA Analyzed for Database purposes only.			
HPYZZK	Yes	No	No	No	QAYVAZ	No Interpretations Reported, DNA Analyzed for Database purposes only.			
HWWPJA	Yes	No	No	No	QM3EP8	Yes	No	No	No
J72ZNE	Yes	No	No	No	QNW34W	Yes	No	No	No
J7EVRX	Yes	No	No	No	QYT7AB	Yes	No	No	No
JGX84B					QZCPG4	Yes	No	No	No
JUNYQZ	Yes	No	No	No	R2FAD3	Yes	No	No	No
K6L3R9	Yes	No	No	No	T42BYF	Yes	No	No	No
KENK3B	No Interpretations Reported, DNA Analyzed for Database purposes only.				TY7JNX	No Interpretations Reported, DNA Analyzed for Database purposes only.			
KMHKLA	Yes	No	No	No	UR3UN6	Yes	No	No	No
KMKAQ8	Yes	No	No	No	VCPLJV	Yes	No	No	No
KRF4N9	Yes	No	No	No	VFPR38	Yes	No	No	No
KT9ZBG	Yes	No	No	No	VTAE8Y	Yes	No	No	No
L3CERA	No Interp	No Interp	No Interp	No Interp	VYJP3E	Yes	No	No	No

TABLE 4

WebCode	Victim (Item 1)		Suspect (Item 2)		WebCode	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
W2NHUR	Yes	No	No	No					
W9NZA4	Yes	No	No	No					
WEQ7N8	Yes	No	No	No					
WND83V	Yes	No	No	No					
WYADWU	No Interpretations Reported, DNA Analyzed for Database purposes only.								
X7PDQW	No Interp	No Interp	No Interp	No Interp					
YE2TDY	Yes	No	No	No					
YUVG6P	Yes	No	No	No					
Z2CDM6	Yes	No	No	No					
Z33ETT	Yes	No	No	No					
Z678K7	Yes	No	No	No					
ZMC9KY	Yes	No	No	No					

DNA Interpretation
Response Summary   **Participants reporting DNA results: 94**

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)?

	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4
Yes	81	0	0	0
No	0	81	81	81
Inc	0	0	0	0
No Interpretation	4	4	4	4
No Response	1	1	1	1

Participants analyzing DNA for database purposes only: 8

Additional Comments
TABLE 5

WebCode	Additional Comments
27GBVA	There is a foreign male DNA profile on item 4 that does not match both the profile of the suspect and the victim
6KLYCT	*STRmix analysis was conducted on this proficiency. *The data reported out in this proficiency is from analysis using GeneMapper ID-X.
6W4F6Y	Extraction: Item 1 and Item 2 were extracted using in-situ method. Item 3 and Item 4 were extracted using QIAsymphony DNA Investigator Kit via QIAsymphony SP. Quantification: Item 3 and Item 4 were quantified using ABI Quantifiler Trio DNA Quantification Kit on ABI QuantStudio 5 Real-Time PCR System. Amplification: Item 1 and Item 2 were amplified using GlobalFiler Express PCR Amplification Kit on Proflex PCR System. Item 3 and Item 4 were amplified using GlobalFiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Item 1, Item 2, Item 3 and Item 4 were amplified using AmpFLSTR Yfiler PCR Amplification Kit on ABI GeneAmp PCR System 9700. Electrophoresis: Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1 and Item 2 (GlobalFiler Express Kit), Item 3 and Item 4 (GlobalFiler Kit). Electrophoresis were carried out on ABI 3500xL Genetic Analyzer for Item 1, Item 2, Item 3 and Item 4 (Y-Filer Kit). Quality Control: Reagent Blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
7D4TDZ	Extraction: -Item 1 and Item 2 were extracted using in-situ method. -Item 3 and Item 4 was extracted using Qiasymphony DNA Investigator Kit via QIAsymphony SP. Quantitation: -Item 3 and Item 4 were quantified using Quantifiler Trio Quantification Kit via QS5 system. Amplification: -Item 1, Item 2 were amplified using GlobalFiler Express on Proflex PCR system. -Item 3 and Item 4 were amplified using GlobalFiler on 9700 GeneAmp PCR system. -Item 1, Item 2, Item 3 and Item 4 were amplified using AMPFLSTR Y-Filer Kit on 9700 GeneAmp PCR System. Electrophoresis: -All electrophoresis were carried out using Genetic Analyzer 3500xL. Quality Control: -Reagent blank, Positive Control and Negative Control carried out throughout the analysis all gave intended results.
7UUT7L	Items 3 and 4 were extracted via differential separation, per laboratory protocol. No human DNA was detected in the sperm fraction for item 3 and insufficient human DNA was detected was detected in the sperm fraction for item 4, so the report will reflect the non-sperm fraction (epi-fraction) only. The sperm fractions were not processed past the quantification step.
B4LYQL	STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X.
B9XR3K	No comparison performed [Initials] 26-May-2022. For item 1-3.1, a 13 allele peak at DYS456 could not be differentiated from an artifact.
BWKPH9	The Powerplex Fusion 6C kit was used for autosomal testing. When entering data, random alleles autopopulated at D6S1043 for Item 1-4. D6 is not in the Fusion 6C PCR amplification kit. I deleted the alleles manually. I'm not sure if this is glitch will affect other users.
CUBX7K	All data reported out in this proficiency originate from analysis using GeneMapper ID-X. In addition, Item 3 was analyzed using STRmix software.
DX6EVK	STRmix analysis was conducted on this test. Data reported out in this test is from analysis using GeneMapper ID-X.
FWNYEN	Extraction: -Item 1 and Item 2 were extracted using in-situ method. -Item 3 and Item 4 were extracted using Qiasymphony DNA Investigator Kit via QIAsymphony SP. Quantitation: -Item 3 and Item 4 were quantified using Quantifiler Trio Quantification Kit via QS5 system. Amplification: -Item 1 and Item 2 were amplified using GlobalFiler Express on ProFlex PCR system. -Item 3 and Item 4 were amplified using GlobalFiler on 9700 GeneAmp PCR system. -Item 1, Item 2, Item 3 and Item 4 were amplified using AMPFLSTR Y-Filer Kit on 9700 GeneAmp PCR System. Electrophoresis: -All electrophoresis were carried out using Genetic Analyzer 3500xL. Quality Control: -Reagent blank, Positive Control and Negative Control carried out throughout the analysis all gave intended results.

TABLE 5

WebCode	Additional Comments
GQXN4Q	Extraction: -Item 1 and Item 2 were extracted using in-situ method. -Item 3 and Item 4 were extracted using Qiasymphony DNA Investigator Kit via QIAsymphony SP. Quantitation: -Item 3 and Item 4 were quantified using Quantifiler Trio Quantification Kit via QS5 system. Amplification: -Item 1, Item 2 were amplified using GlobalFiler Express on ProFlex PCR system. -Item 3 and Item 4 were amplified using GlobalFiler on 9700 GeneAmp PCR system. -Item 1, Item 2, Item 3 and Item 4 were amplified using AMPFLSTR Y-Filer Kit on 9700 GeneAmp PCR System. Electrophoresis: -All electrophoresis were carried out using Genetic Analyzer 3500xL. Quality Control: -Reagent blank, Positive Control and Negative Control carried out throughout the analysis all gave intended results.
HPX7GE	STRmix analysis was conducted on this test. The data reported out in this test is from analysis using GeneMapper ID-X.
JGX84B	No comparisons performed. [Initials] 01JUN2022
L3CERA	Item 3 Yfiler profile 13 allele peak at DYS456 cannot be differentiated from an artifact. No comparisons performed [Initials] 5/31/2022.
P8WTN7	test participant functions as a technician and does not perform interpretations
QM3EP8	Data analyzed and reported using GeneMapper ID-X. STRmix used for probabilistic genotyping.
X7PDQW	No comparisons performed. [Initials] 05/18/2022
YE2TDY	STRmix analysis was conducted on this test. The data reported out in this test is from analysis using Genemapper ID-X.
Z2CDM6	The data reported out in this test is from analysis using GeneMapper ID-X. STRmix analysis was also conducted on this test.
ZMC9KY	The data reported out in this test is from analysis using Genemapper ID-X. STRmix analysis was conducted on this test.

-End of Report-
(Appendix may follow)

Test No. 22-5803: DNA-Blood

DATA MUST BE SUBMITTED BY **June 21, 2022, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A   WebCode: Q8MDQV

The Accreditation Release section can be accessed by using the "Continue to Final Submission" button above. This information can be entered at any time prior to submitting to CTS.

Scenario:

Police are investigating a fatal hit and run involving a male victim and male suspect. Eye witnesses reported to police they saw the suspect run over the victim with his street-approved scooter. At the scene, the police located the suspected scooter with stains, as well as the deceased victim. The suspect had left the scene, but was later apprehended based on information collected from eye witnesses. Police are submitting a stain from the cloth cover on the scooter's seat (Item 3) and a stain from the shirt the suspect was wearing (Item 4). Screening tests have been performed on both samples with the following results: Item 3 (seat cover) is positive for blood, and Item 4 (suspect's shirt) is positive for blood. Also provided are known standards from the male victim (Item 1) and male suspect (Item 2).

Items Submitted (Sample Pack S3):

Item 1: Known blood from the male victim
Item 2: Known blood from the male suspect
Item 3: Questioned blood stain from scooter seat cover (yellow)
Item 4: Questioned blood stain from suspect's shirt (blue)

Part I: DNA Results for Known Item 1

- Report alleles in numerical order, separated by a comma.
- Follow your laboratory procedures for reporting homozygotes (i.e. X,X or X) and null responses.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].

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

☐ Identifiler®　[　　　　]　　　☐ GlobalFiler™　[　　　　]　　　☐ Investigator® 24plex　[　　　　]

☐ PowerPlex®　[　　　　]　　　　Other　[　　　　]

Report the Probabilistic Genotyping Software Used (if applicable): [　　　　　　　　]

Alleles below are sorted in **Default** *order.*

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1						
ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
1						
ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
1						
ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
1						
ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
1						

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

☐ YFiler™　[　　　　]　　　　☐ PowerPlex® Y　[　　　　]　　　　Other　[　　　　]

Alleles below are sorted in **Default** *order.*

ITEM	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
1									
ITEM	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
1									
ITEM	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
1									

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

- Report alleles in numerical order, separated by a comma.
- Follow your laboratory procedures for reporting homozygotes (i.e. X,X or X) and null responses.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].

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

☐ Identifiler®   ☐ GlobalFiler™   ☐ Investigator® 24plex

☐ PowerPlex®   Other

Report the Probabilistic Genotyping Software Used (if applicable):

Alleles below are sorted in **Default** *order.*

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2						
ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
2						
ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
2						
ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
2						
ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
2						

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

☐ YFiler™   ☐ PowerPlex® Y   Other

Alleles below are sorted in **Default** *order.*

ITEM	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
2									
ITEM	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
2									
ITEM	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
2									

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

- Report alleles in numerical order, separated by a comma.
- Follow your laboratory procedures for reporting homozygotes (i.e. X,X or X) and null responses.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].

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

☐ Identifiler®   ☐ GlobalFiler™   ☐ Investigator® 24plex

☐ PowerPlex®   Other

Report the Probabilistic Genotyping Software Used (if applicable):

Alleles below are sorted in **Default** *order.*

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3						
ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
3						
ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
3						
ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
3						
ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
3						

<u>YSTR Amplification Kit(s) Used:</u>   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

Alleles below are sorted in **Default** *order.*

ITEM	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
3									
ITEM	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
3									
ITEM	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
3									

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

- Report alleles in numerical order, separated by a comma.
- Follow your laboratory procedures for reporting homozygotes (i.e. X,X or X) and null responses.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].

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

☐ Identifiler® ☐ GlobalFiler™ ☐ Investigator® 24plex

☐ PowerPlex® Other

Report the Probabilistic Genotyping Software Used (if applicable):

Alleles below are sorted in **Default** *order.*

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4						
ITEM	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
4						
ITEM	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
4						
ITEM	FGA	Penta D	Penta E	SE33	TH01	TPOX
4						
ITEM	vWA	DYS391	DYS570	DYS576	Y Indel	
4						

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

☐ YFiler™ ☐ PowerPlex® Y Other

Alleles below are sorted in **Default** *order.*

ITEM	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
4									
ITEM	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
4									
ITEM	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
4									

Part I (continued): DNA Analysis - Additional DNA

- Use this section to report results for loci not currently listed in other sections of the data sheet.
- Report alleles in numerical order, separated by a comma.
- If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [ ].
- Click "Add Row" to show another row of boxes for entry.

Locus	Item 1	Item 2	Item 3	Item 4

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)?

	Victim (Item 1)			Suspect (Item 2)	
	Item 3	Item 4		Item 3	Item 4
Yes	◯	◯	Yes	◯	◯
No	◯	◯	No	◯	◯
Inconclusive	◯	◯	Inconclusive	◯	◯
No Interpretation	◯	◯	No Interpretation	◯	◯

DNA interpretations not reported; samples analyzed for database purposes only: ☐

Part III: ADDITIONAL COMMENTS

- Use this section to report comments regarding any part of this test.
- Written conclusions (including statistical information) for DNA analysis are not required.
- Any interpretations based on the results obtained should be indicated in the section above.
- Note: Laboratories submitting their results for accreditation are asked to report any additional information that will assist in the review of their results. This includes an explanation of any deviations from a full completion of the test and/or unique findings such as elevated stutter.

Please note: *Any additional formatting applied in the free form space below will not transfer to the Summary Report and may cause your information to be illegible. This includes additional spacing and returns that present your responses in lists and tabular formats.*

RELEASE OF DATA TO ACCREDITATION BODIES

The Accreditation Release is accessed by pressing the "Continue to Final Submission" button online and can be completed at any time prior to submission to CTS.

CTS submits external proficiency test data directly to ASCLD/LAB, ANAB, and/or 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 below must be completed.)
○ This participant's data is **not** intended for submission to ASCLD/LAB, ANAB, and/or A2LA.

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

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

ANAB Certificate No.
(Include ASCLD/LAB Certificate here)

A2LA Certificate No.

Step 2: Complete the Laboratory Identifying Information in its entirety

Authorized Contact Person and Title

Laboratory Name

Location (City/State)