Collaborative Testing Services, Inc

FORENSIC TESTING PROGRAM

P.O. Box 650820
Sterling, VA 20165-0820
e-mail: forensics@cts-interlab.com
Telephone: +1-571-434-1925
Web site: www.cts-forensics.com

DNA-Semen Test No. 19-5802
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 223 participants and are compiled into the following tables:

Manufacturer's Information

Each sample pack consisted of two known bloodstains on FTA Micro cards (Items 1 & 2), and two questioned stains; one on clean, brown material (Item 3) and one on clean, off-white material (Item 4). Participants were requested to analyze these items using their existing protocols.

SAMPLE PREPARATION: The stains in Items 1, 2, and 3 were prepared using human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. The stain in Item 4 was a mixture prepared from human whole blood and semen. The semen sample was first thawed and mixed 1:1 with TAE buffer, then mixed 1:1 with the blood. Items 1 (75 μl) and 3 (50 μl) were created using blood from the same female donor. Item 2 (75 μl) was created using blood collected from a male donor. Item 4 (50 μl) was a 1:1 mixture that was prepared using blood from the female donor used for Item 1 and semen from the male donor used for Item 2. Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on March 4, 2019 following receipt of predistribution results.

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

VERIFICATION: All predistribution laboratories confirmed the manufacturer's expected associations. Consistent allelic results were reported for all STR and YSTR loci.

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	12,14	21,25	11,11	17,17	7,12	*
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17	NM	NM	NM	NM	
2	16,18.3	17,19	11,14	15,18	11,11	*
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12	18,26.2	6,9.3	8,11
	17,17	10	16	17	2	
3	12,14	21,25	11,11	17,17	7,12	*
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17	NM	NM	NM	NM	
4-Blood	12,14	21,25	11,11	17,17	7,12	*
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17	NM	NM	NM	NM	
4-Semen	16,18.3	17,19	11,14	15,18	11,11	*
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12	18,26.2	6,9.3	8,11
	17,17	10	16	17	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
2	35,35	13	14,17	13	29	22	10	15	13
	14	11	12	19	29	15	17	10	25
	39	11	12	16	17	21	22	11	10
4-Semen	35,35	13	14,17	13	29	22	10	15	13
	14	11	12	19	29	15	17	10	25
	39	11	12	16	17	21	22	11	10

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

NM - Non-Male profile, YSTR results not expected.

Summary Comments

The DNA-Semen test is part of the DNA Sample Specific Series, where participants are advised of the body fluid(s) that 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 female donor. Item 2 was created using blood from a male donor. Item 4 was created using a mixture of blood from the same female donor used for Item 1 and semen from the same male donor used for Item 2. (See Manufacturer's Information for preparation details)

Of the 223 participants that returned results, 181 reported DNA interpretations.

A total of thirty participants reported allelic results that differed from consensus/predistribution results for one or more items. These inconsistencies are detailed below.

For the Item 1 stain, all participants reported allelic results that matched the consensus/predistribution results.

For the Item 2 stain, all but two participants reported allelic results that matched the consensus/predistribution results. One of these participants reported the allelic results of "19,26.2" at the SE33 locus where the consensus was "18,26.2". The other participant reported an additional allele at locus DYS392.

For the Item 3 stain, all but one participant reported allelic results that matched the consensus/predistribution results. This participant reported an additional allele at the D2S441 locus. All participants that reported interpretations included the victim (Item 1) and excluded the suspect (Item 2) as possible contributors to Item 3.

For the Item 4 stain, all but 28 participants reported allelic results that matched the consensus/predistribution results for the epithelial or sperm fractions. The majority of these participants reported additional alleles at one or more loci for the epithelial or sperm fractions of Item 4. Most of these participants reported the use of probabilistic genotyping software and indicated in their comments that all alleles deemed possible for any contributor to the mixture are being reported. Five participants reported the full Item 4 mixture profile instead of separate epithelial and sperm fractions. All of these participants reported allelic results that matched the consensus/predistribution results. All participants that reported interpretations included the victim (Item 1) and the suspect (Item 2) as possible contributors to Item 4.

A total of 46 participants reported the use of probabilistic genotyping software, of these 26 reported additional alleles at one or more loci. There were several types of software used. However, the genotyping software STRmix was reported most frequently by participants.

STR Amplification Kit(s) & Results

TABLE 1

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

Item 1 - STR Results

244J47 GlobalFiler™ (STRmix)

12,14	21,25	11	17,17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

Item: 1

2CNFH8 NGM SElect

12,14	21,25	11,11	17,17		
13,15	14,15	15,19		12,13	
15,16	12,14	28,29	15,15	X,X	
24,24			18,20	8,8	
14,17					

Item: 1

2DH423 PowerPlex® Fusion

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12		8	8
14,17	NR				

Item: 1

2HZRT8 GlobalFiler™ Express

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

Item: 1

2J44BN GlobalFiler™

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	No Results			No Results	

Item: 1

2PZLVV PowerPlex® Fusion 5C

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12		8	8
14,17	NR				

Item: 1

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

2XAYUQ Investigator® 24plex

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	No Results				

2XPGTP GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

2Z4BZW PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17	NR	NR	NR		

38AADK GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	No Results			No Results	

38WWA3 GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

38YP3A GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

3DNA44 PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17	NR	NR	NR		

TABLE 1

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

Item 1 - STR Results

3P4WGB — Investigator® 24plex

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

3ZY8MW — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	NR	NR	NR		

4L7NCT — PowerPlex® 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17					

4M8Z6M — Investigator® 24plex (STRMIX)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X,X	10,12
24			18,20	8	8
14,17					

4P63YJ — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	No Results	No Results	No Results		

4PACYW — GlobalFiler™ Express

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17	No Results			No Results	

4QJJZ4 — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	No Results	No Results	No results		

TABLE 1

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

Item 1 - STR Results

4U3GQE — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					

4UJPGU — PowerPlex® esi-fast, Fusion 6C (EuroForMix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17					

4VF44M — GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17	NR			NR	

4YDRGN — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

6936LK — Investigator® 24plex

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	N/A
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	N/A	N/A	18,20	8,8	8,8
	14,17		N/A	N/A	N/A	

6BLUHC — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					

6HKCWN — PowerPlex® Fusion 6C, GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	N.D.			N.D.	

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 1 - STR Results

6NFFA8 — PowerPlex® Fusion

	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12		8,8	8,8
	14,17					

6QEGPP — PowerPlex® Fusion 6C, GlobalFiler™

	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	N.D.			N.D.	

6QMVJY — PowerPlex® Fusion5C

	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12		8,8	8,8
	14,17					

6REUXW — PowerPlex® 21

	12,14	21,25		17,17	7,12	14,19
1	11,11	13,15		15,19	11,13	12,13
	15,16	12,14	28,29		X,X	10,12
	24,24	10,10	7,12		8,8	8,8
	14,17					

6Y2GUN — Investigator® 24plex

	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					

7AAABM — PowerPlex® Fusion 6C, GlobalFiler™

	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	Not Detected			Not Detected	

7AGQX8 — Investigator® 24plex

	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					

TABLE 1

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

Item 1 - STR Results

7AUMY7 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
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12		8,8	8,8
14,17					

7B6XRX PowerPlex® Fusion 6C — Item 1

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12	18,20	8	8
14,17	NR	NR	NR		

7QTB2J GlobalFiler™ — Item 1

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

7WF39C Investigator® 24plex — Item 1

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	No results				

7ZNHBV PowerPlex® — Item 1

12,14	21,25	11	17		
	13,15	14,15	15,19		12,13
15,16	12,14	28,29	15	X	
24				8	
14,17					

82FTNA Investigator® 24plex — Item 1

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

86TUBZ GlobalFiler™ Express — Item 1

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

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 1 - STR Results

8EHLRR — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12	18,20	8	8
14,17					

8EWN9T — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

8L4F7C — Investigator® 24plex (STRmix) — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

8Y2YG3 — Identifiler® Direct — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	21,25		17	7,12	
11	13,15			11,13	12,13
15,16	12,14	28,29		X,X	10,12
24				8	8
14,17					

94RVJY — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	No results	No results	No results		

9DK7TU — Identifiler® Direct — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
-	21,25	-	17	7,12	-
11	13,15	-	-	11,13	12,13
15,16	12,14	28,29	-	X,X	10,12
24	-	-	-	8	8
14,17	-	-	-	-	

9FB9YH — GlobalFiler™ Express — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17	NR			NR	

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

9HCW7X — GlobalFiler™ Express — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

9J3LDR — GlobalFiler™, MiniFiler — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	No Results			No Results	

9WRGUR — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12	18,20	8	8
14,17					

A3RFHL — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

A7CTDN — Investigator® 24plex (STRmix) — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

AEBPAL — PowerPlex® Fusion — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12		8	8
14,17	NR				

AFRB99 — Investigator® 24plex — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

TABLE 1

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

AMBG3U — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	NR	NR	NR		

ATQRPP — GlobalFiler™ Express (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

AUUKAX — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	NR	NR	NR		

B3XEJF — Investigator® 24plex (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

B3Z4QY — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

BAA6GL — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12	18,20	8	8
14,17					

BDGVA2 — PowerPlex® Fusion (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12		8,8	8,8
14,17					

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 1 - STR Results

WebCode	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
BGT726	GlobalFiler™					
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					
BN22AQ	Identifiler® Plus					
		21,25		17,17	7,12	
1	11,11	13,15			11,13	12,13
	15,16	12,14	28,29		X,X	10,12
	24,24				8,8	8,8
	14,17					
BPH4LJ	Investigator® 24plex					
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	No Results				
CGAMUD	PowerPlex® Fusion 5C					
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24	10	7,12		8	8
	14,17					
CKT76E	Investigator® 24plex (STRmix)					
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					
CKVWBW	Investigator® 24plex QS					
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					
CN4RME	GlobalFiler™					
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					

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

CTQYBM — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	ND	ND	ND		

CXCJUN — GlobalFiler™ Express — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17	NR			NR	

CXWZAQ — Identifiler® Direct — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	21,25		17	7,12	
11	13,15			11,13	12,13
15,16	12,14	28,29		X,X	10,12
24				8	8
14,17					

CY7AXG — PowerPlex® Fusion — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12		8	8
14,17					

CZ2XC7 — Investigator® 24plex — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	No Results				

D9VM2T — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	NR	NR	NR		

DBG36N — Identifiler® Direct — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	21,25		17	7,12	
11	13,15			11,13	12,13
15,16	12,14	28,29		X,X	10,12
24				8	8
14,17					

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 1 - STR Results

DG2N7Z — GlobalFiler™

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	/			/	

Item: 1

DGU88U — Investigator® 24plex QS (STRmix)

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

Item: 1

DLZCUG — PowerPlex® Fusion 6C, GlobalFiler™

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	Not Detected			Not Detected	

Item: 1

E3NEDW — GlobalFiler™

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

Item: 1

E4LRY4 — Investigator® 24plex (STRmix)

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

Item: 1

EJM9CB — PowerPlex® Fusion 6C, MiniFiler

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	No Results	No Results	No Results		

Item: 1

EYJ7DQ — GlobalFiler™ Express

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

Item: 1

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

F23W4G	GlobalFiler™					
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					
F46X4E	GlobalFiler™					
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					
F6ZLH4	PowerPlex® Fusion 5C					
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12		8,8	8,8
	14,17	No Results				
FL99CQ	GlobalFiler™					
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	No Results			No Results	
FPYYN3	Investigator® 24plex QS (STRmix)					
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	-				
FQF3ME	PowerPlex® Fusion 6C					
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17	No Results	No Results	No Results		
FW9XVD	PowerPlex® Fusion 6C, GlobalFiler™					
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	N.D.			N.D.	

TABLE 1

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

Item 1 - STR Results

	D1/D7/D18/FGA/vWA	D2/D8/D19/PentaD/DYS391	D2S441/D10/D21/PentaE/DYS570	D3/D12/D22/SE33/DYS576	D5/D13/Amel/TH01/Y Indel	D6/D16/CSF1PO/TPOX
FX4L8G	GlobalFiler™					
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					
FZBYVB	GlobalFiler™ Express					
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17	No Result			No Result	
GBHBG4	GlobalFiler™					
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	No Results			No Results	
GBWPJT	GlobalFiler™					
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					
GETGP6	Investigator® 24plex					
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					
HA6WR9	GlobalFiler™					
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					
HB2GE9	GlobalFiler™					
	12,14	21,25	11,11	17,17	7,12	Not Tested
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	Not Tested	Not Tested	18,20	8,8	8,8
	14,17	No Results	Not Tested	Not Tested	No Results	

TABLE 1

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

Item 1 - STR Results

HEYXTM — PowerPlex® Fusion 5C

Item						
1	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24	10	7,12		8	8
	14,17					

HFH6MQ — Investigator® 24plex

Item						
1	12,14	21,25	11,11	17,17	7,12	N/A
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	N/A	N/A	18,20	8,8	8,8
	14,17	No Result	N/A	N/A	N/A	

HG79M7 — PowerPlex® Fusion

Item						
1	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X,X	10,12
	24	10	7,12		8	8
	14,17					

HJV3JR — GlobalFiler™ Express

Item						
1	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

HRL6LH — PowerPlex® Fusion

Item						
1	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12		8,8	8,8
	14,17	No Results				

HZPENM — GlobalFiler™

Item						
1	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17	No Results			No Results	

J6BGKD — PowerPlex® Fusion

Item						
1	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24	10	7,12		8	8
	14,17	NR				

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 1 - STR Results

JBJAYN	PowerPlex® Fusion 6C					
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17	NR	NR	NR		

JCFMLF	PowerPlex® Fusion 6C					
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17	NR	NR	NR		

JKUCKN	PowerPlex® Fusion 6C					
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17	NR	NR	NR		

JNN2GG	GlobalFiler™ Express					
	12,14	21,25	11	17	7,12	NT
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24	NT	NT	18,20	8	8
	14,17	NR	NT	NT	NR	

JP2XCR	GlobalFiler™ (STRmix)					
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

JTMK6F	PowerPlex® Fusion 6C					
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17	NR	NR	NR		

JZM46P	GlobalFiler™					
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

TABLE 1

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

Item 1 - STR Results

KBB2H3	GlobalFiler™					
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X,X	10,12
	24			18,20	8	8
	14,17					
KEC2KK	PowerPlex® Fusion					
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24	10	7,12		8	8
	14,17	NR				
KRL8YY	Investigator® 24plex, MiniFiler					
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					
KU2EQZ	PowerPlex® Fusion 5					
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12		8,8	8,8
	14,17	No Results				
KU8QCB	PowerPlex® Fusion					
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24	10	7,12		8	8
	14,17					
L67737	Investigator® 24plex					
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					
L679QP	Investigator® 24plex GO!					
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

TABLE 1

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

Item 1 - STR Results

L8W89U Investigator® 24plex

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					

LBWJ6U Investigator® 24plex (STRmix)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					

LFPK4M GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

LGJ9MH GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17	no results			no results	

LLUUBB PowerPlex® Fusion

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24	10	7,12		8	8
	14,17	NR				

LP7289 GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

LQ2PLX Investigator® 24plex

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	No 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

LVFVRK — 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
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12		8	8
14,17	NR				

M7Z2G2 — Investigator® 24plex — Item 1

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

M99733 — Investigator® 24plex — Item 1

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

MDTW2D — GlobalFiler™ Express — Item 1

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17	NR			NR	

MJ8YCU — Investigator® 24plex — Item 1

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

MNNCH2 — GlobalFiler™ — Item 1

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	No Results			No Results	

MYVUFY — PowerPlex® 5C, GlobalFiler™ — Item 1

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12		8,8	8,8
14,17	No Results				

TABLE 1

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

Item 1 - STR Results

N2K7XA — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	NR	NR	NR		

N2UR2B — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	NR			NR	

N9496C — Identifiler® ID+

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	21,25		17,17	7,12	
11,11	13,15			11,13	12,13
15,16	12,14	28,29		X,X	10,12
24,24				8,8	8,8
14,17					

NDM9QC — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	No Results			No Results	

NG67KU — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	No Results			No Results	

NLGGB4 — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12		8,8	8,8
14,17					

NMMR3M — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

TABLE 1

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

Item 1 - STR Results

NZ4HC4 PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	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	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24	10	7,12		8	8
	14,17					

P39WML GlobalFiler™

1	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

P3MWEJ PowerPlex® Fusion 6C

1	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17	No Results	No Results	No Results		

P43K4V Investigator® 24plex

1	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

P4C86C PowerPlex® Fusion

1	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12		8,8	8,8
	14,17	No Results				

P9N9AF PowerPlex® Fusion

1	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24	10	7,12		8	8
	14,17	NR				

PF9W2H GlobalFiler™ Express

1	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

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

PK297A — GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17	No results			No results	

PLU7EF — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					

PNX2VX — PowerPlex® Fusion5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	Not Tested
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	Not Tested	8,8	8,8
	14,17	No Results	Not Tested	Not Tested	Not Tested	

PPYPJ3 — GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17	No Results			No Results	

PXD4GJ — GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

PYNKFX — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X,X	10,12
	24			18,20	8	8
	14,17					

PZWWXY — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X,X	10,12
	24			18,20	8	8
	14,17					

TABLE 1

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

Item 1 - STR Results

Q6RDCJ — GlobalFiler™ (STRmix) — 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
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

QAYCGC — 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
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	NR			NR	

QC88XF — 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
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

QJ2R6W — 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
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

QKUPD3 — Investigator® 24plex — 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
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

QLTQLF — Investigator® 24plex — 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
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	No Results				

QPTYN6 — 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
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X,X	10,12
24	10	7,12		8	8
14,17					

TABLE 1

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

Item 1 - STR Results

R2QN9G — Investigator® 24plex GO!

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

(Item 1)

R7RF9T — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	No Results	No Results	No Results		

(Item 1)

R7WVLU — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X,X	10,12
24			18,20	8	8
14,17					

(Item 1)

RDGW28 — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12	18,20	8	8
14,17					

(Item 1)

RN4HFM — Investigator® 24plex (STRMix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

(Item 1)

RND4G3 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	No Results			No Results	

(Item 1)

RNGG97 — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12		8	8
14,17	NR				

(Item 1)

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

RYVGY8 GlobalFiler™ (TrueAllele)

Item						
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

T7UK6G Identifiler® Direct

Item						
		21,25		17	7,12	
1	11	13,15			11,13	12,13
	15,16	12,14	28,29		X,X	10,12
	24				8	8
	14,17					

T9LU2H GlobalFiler™

Item						
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

TANM6B PowerPlex® Fusion 6C

Item						
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17					

TDB779 PowerPlex® Fusion 6C

Item						
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17					

THM6L9 Identifiler® Plus

Item						
		21,25		17,17	7,12	
1	11,11	13,15			11,13	12,13
	15,16	12,14	28,29		X,X	10,12
	24,24				8,8	8,8
	14,17					

TPEJ2L Investigator® 24plex

Item						
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					

TABLE 1

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

Item 1 - STR Results

TTPUPA — PowerPlex® Fusion — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12		8,8	8,8
14,17					

U43PGN — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

U9C3Z8 — Identifiler® Direct — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	21,25		17	7,12	
11	13,15			11,13	12,13
15,16	12,14	28,29		X,X	10,12
24				8	8
14,17					

UARTD4 — PowerPlex® Fusion 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	NR	NR	NR		

UCVYMC — GlobalFiler™ — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

UFJX9T — Investigator® 24plex — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

UG3REM — PowerPlex® 6C — Item 1

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	No Results	No Results	No Results		

TABLE 1

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

Item 1 - STR Results

UG86ZX — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17	NR			NR	

UJFLTF — GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

UK24BM — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	12,14	21,25	11,11	17,17	7,12	N/A
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	N/A	N/A	18,20	8,8	8,8
	14,17	No Results	N/A	N/A	No Results	

UUD36X — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	No Results			No Results	

UWJHHV — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					

VMNZGR — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X,X	10,12
	24			18,20	8	8
	14,17					

VMYWFC — Investigator® 24plex QS, MiniFiler

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X,X	10,12
	24			18,20	8	8
	14,17					

TABLE 1

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

Item 1 - STR Results

VRJWYR   PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	No Results	No Results	No Results		

Item: 1

VV2UUA   GlobalFiler™ Express (GFF v2.7.5 beta)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

Item: 1

W4DCNT   PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12		8,8	8,8
14,17	No Results				

Item: 1

W8NME2   PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17					

Item: 1

WEDXWC   Identifiler®

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	21,25		17	7,12	
11	13,15			11,13	12,13
15,16	12,14	28,29		X	10,12
24				8	8
14,17					

Item: 1

WGE4AX   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

Item: 1

WQ6K38   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

Item: 1

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

WRYYKB GlobalFiler™ Express

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

WUTNX6 Identifiler® Plus

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1		21,25		17,17	7,12	
	11,11	13,15			11,13	12,13
	15,16	12,14	28,29		X,X	10,12
	24,24				8,8	8,8
	14,17					

WZ92CP GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

WZELND GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

X24MYN Investigator® 24plex

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	No Results				

X72QZE GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

X7L8EV GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
1	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					

TABLE 1

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

Item 1 - STR Results

X8X796 — PowerPlex® Fusion 5C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12		8,8	8,8
14,17					

XB78YV — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	No Results			No Results	

XCJRR7 — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

XF3Q6Z — PowerPlex® Fusion 6C (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12	18,20	8	8
14,17					

XGHFVD — PowerPlex® Fusion (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12		8,8	8,8
14,17					

XVGURV — GlobalFiler™ (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

XY32GP — Investigator® 24plex (STRmix) (Item 1)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

TABLE 1

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

Item 1 - STR Results

YCVR6R — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12		8,8	8,8
	14,17	No Results				

YG9QLR — GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17	NR			NR	

YNP9UT — Investigator® 24plex

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	No Results				

YU3CDM — Investigator® 24plex (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					

YZ47YW — PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	Not Tested
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	Not Tested	8,8	8,8
	14,17	No Results	Not Tested	Not Tested	Not Tested	

Z3CZPZ — Identifiler® Plus

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
		21,25		17,17	7,12	
1	11,11	13,15			11,13	12,13
	15,16	12,14	28,29		X,X	10,12
	24,24				8,8	8,8
	14,17					

ZLJ2BZ — Identifiler® Direct

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	-	21,25	-	17	7,12	-
1	11	13,15	-	-	11,13	12,13
	15,16	12,14	28,29	-	X,X	10,12
	24	-	-	-	8	8
	14,17	-	-	-	-	

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

ZWEE8Q	GlobalFiler™					
	12,14	21,25	11	17	7,12	
1	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					
ZYN366	PowerPlex® Fusion					
	12,14	21,25	11,11	17,17	7,12	
1	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12		8,8	8,8
	14,17					

TABLE 1

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

Item 2 - STR Results

244J47 GlobalFiler™ (STRmix)

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
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

2CNFH8 NGM SElect

16,18.3	17,19	11,14	15,18		
	11,13	14,17	18,19.3		11,11
15,17	14,15.2	29,31	16,16	X,Y	
19,21			18,26.2	6,9.3	
17,17					

2DH423 PowerPlex® Fusion

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12		6,9.3	8,11
17	10				

2HZRT8 GlobalFiler™ Express

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

2J44BN GlobalFiler™

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

2PZLVV PowerPlex® Fusion 5C

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12		6,9.3	8,11
17	10				

2XAYUQ Investigator® 24plex

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

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

2XPGTP — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

2Z4BZW — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

38AADK — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

38WWA3 — GlobalFiler™ Express — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

38YP3A — GlobalFiler™ (STRmix) — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

3DNA44 — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

3P4WGB — Investigator® 24plex — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

TABLE 1

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

Item 2 - STR Results

3ZY8MW — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,18.3	17,19	11,14	15,18	11,11	
2	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12	18,26.2	6,9.3	8,11
	17,17	10	16	17		

4L7NCT — PowerPlex® 6C

	16,18.3	17,19	11,14	15,18	11,11	
2	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12	18,26.2	6,9.3	8,11
	17,17	10	16	17		

4M8Z6M — Investigator® 24plex (STRMIX)

	16,18.3	17,19	11,14	15,18	11	
2	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10				

4P63YJ — PowerPlex® Fusion 6C

	16,18.3	17,19	11,14	15,18	11,11	
2	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12	18,26.2	6,9.3	8,11
	17,17	10	16	17		

4PACYW — GlobalFiler™ Express

	16,18.3	17,19	11,14	15,18	11	
2	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	

4QJJZ4 — PowerPlex® Fusion 6C

	16,18.3	17,19	11,14	15,18	11,11	
2	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12	18,26.2	6,9.3	8,11
	17,17	10	16	17		

4U3GQE — GlobalFiler™

	16,18.3	17,19	11,14	15,18	11,11	
2	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			2	

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 2 - STR Results

4UJPGU   PowerPlex® esi-fast, Fusion 6C (EuroForMix)

Item						
	16,18.3	17,19	11,14	15,18	11,11	
2	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12	18,26.2	6,9.3	8,11
	17,17	10	16	17		

4VF44M   GlobalFiler™ Express

Item						
	16,18.3	17,19	11,14	15,18	11	
2	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	

4YDRGN   GlobalFiler™

Item						
	16,18.3	17,19	11,14	15,18	11	
2	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	

6936LK   Investigator® 24plex

Item						
	16,18.3	17,19	11,14	15,18	11,11	N/A
2	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	N/A	N/A	18,26.2	6,9.3	8,11
	17,17	10	N/A	N/A	N/A	

6BLUHC   GlobalFiler™

Item						
	16,18.3	17,19	11,14	15,18	11,11	
2	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			2	

6HKCWN   PowerPlex® Fusion 6C, GlobalFiler™

Item						
	16,18.3	17,19	11,14	15,18	11,11	
2	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			2	

6NFFA8   PowerPlex® Fusion

Item						
	16,18.3	17,19	11,14	15,18	11,11	
2	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12		6,9.3	8,11
	17,17	10				

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

6QEGPP   PowerPlex® Fusion 6C, GlobalFiler™   Item 2

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

6QMVJY   PowerPlex® Fusion 5C   Item 2

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12		6,9.3	8,11
17,17	10				

6REUXW   PowerPlex® 21   Item 2

16,18.3	17,19		15,18	11,11	10,15
10,11	11,13		18,19.3	9,12	11,11
15,17	14,15.2	29,31		X,Y	11,11
19,21	11,12	10,12		6,9.3	8,11
17,17					

6Y2GUN   Investigator® 24plex   Item 2

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

7AAABM   PowerPlex® Fusion 6C, GlobalFiler™   Item 2

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

7AGQX8   Investigator® 24plex   Item 2

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

7AUMY7   PowerPlex® Fusion   Item 2

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12		6,9.3	8,11
17,17	10				

TABLE 1

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

Item 2 - STR Results

7B6XRX 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
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17	10	16	17		

7QTB2J 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
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

7WF39C 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
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

7ZNHBV PowerPlex® — 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
16,18.3	17,19	11,14	15,18		
	11,13	14,17	18,19.3		11
15,17	14,15.2	29,31	16	X,Y	
19,21				6,9.3	
17					

82FTNA 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
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

86TUBZ 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
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

8EHLRR 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
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17	10	16	17		

TABLE 1

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

Item 2 - STR Results

8EWN9T — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

8L4F7C — Investigator® 24plex (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10				

8Y2YG3 — Identifiler® Direct

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,19		15,18	11	
10,11	11,13			9,12	11
15,17	14,15.2	29,31		X,Y	11
19,21				6,9.3	8,11
17					

94RVJY — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

9DK7TU — Identifiler® Direct

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
-	17,19	-	15,18	11	-
10,11	11,13	-	-	9,12	11
15,17	14,15.2	29,31	-	X,Y	11
19,21	-	-	-	6,9.3	8,11
17	-	-	-	-	

9FB9YH — GlobalFiler™ Express

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

9HCW7X — GlobalFiler™ Express

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

TABLE 1

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

Item 2 - STR Results

9J3LDR — GlobalFiler™, MiniFiler

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			2	

9WRGUR — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,18.3	17,19	11,14	15,18	11	
	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21	11,12	10,12	18,26.2	6,9.3	8,11
	17	10	16	17		

A3RFHL — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			2	

A7CTDN — Investigator® 24plex (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10				

AEBPAL — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,18.3	17,19	11,14	15,18	11	
	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21	11,12	10,12		6,9.3	8,11
	17	10				

AFRB99 — Investigator® 24plex, MiniFiler

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10				

AMBG3U — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12	18,26.2	6,9.3	8,11
	17,17	10	16	17		

TABLE 1

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

Item 2 - STR Results

ATQRPP — GlobalFiler™ Express

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			2	

AUUKAX — PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12	18,26.2	6,9.3	8,11
	17,17	10	16	17		

B3XEJF — Investigator® 24plex

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10				

B3Z4QY — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,18.3	17,19	11,14	15,18	11	
	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	

BAA6GL — PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,18.3	17,19	11,14	15,18	11	
	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21	11,12	10,12	18,26.2	6,9.3	8,11
	17	10	16	17		

BDGVA2 — PowerPlex® Fusion

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12		6,9.3	8,11
	17,17	10				

BGT726 — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			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

BN22AQ — Identifiler® Plus — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,19		15,18	11,11	
10,11	11,13			9,12	11,11
15,17	14,15.2	29,31		X,Y	11,11
19,21				6,9.3	8,11
17,17					

BPH4LJ — Investigator® 24plex — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

CGAMUD — PowerPlex® Fusion 5C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12		6,9.3	8,11
17	10				

CKT76E — Investigator® 24plex (STRmix) — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10				

CKVWBW — Investigator® 24plex QS — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

CN4RME — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

CTQYBM — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

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

CXCJUN — GlobalFiler™ Express (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

CXWZAQ — Identifiler® Direct (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,19		15,18	11	
10,11	11,13			9,12	11
15,17	14,15.2	29,31		X,Y	11
19,21				6,9.3	8,11
17					

CY7AXG — PowerPlex® Fusion (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12		6,9.3	8,11
17	10				

CZ2XC7 — Investigator® 24plex (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

D9VM2T — PowerPlex® Fusion 6C (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

DBG36N — Identifiler® Direct (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,19		15,18	11	
10,11	11,13			9,12	11
15,17	14,15.2	29,31		X,Y	11
19,21				6,9.3	8,11
17					

DG2N7Z — GlobalFiler™ (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

TABLE 1

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

Item 2 - STR Results

DGU88U Investigator® 24plex QS (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

DLZCUG PowerPlex® Fusion 6C, GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

E3NEDW GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

E4LRY4 Investigator® 24plex (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10				

EJM9CB PowerPlex® Fusion 6C, MiniFiler

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

EYJ7DQ GlobalFiler™ Express

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

F23W4G GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			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

F46X4E — 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
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

F6ZLH4 — 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
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12		6,9.3	8,11
17,17	10				

FL99CQ — 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
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

FPYYN3 — Investigator® 24plex QS (STRmix) (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
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			19,26.2	6,9.3	8,11
17,17	10				

FQF3ME — 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
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

FW9XVD — PowerPlex® Fusion 6C, 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
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

FX4L8G — 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
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			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

FZBYVB — GlobalFiler™ Express — 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

GBHBG4 — GlobalFiler™ — 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

GBWPJT — GlobalFiler™ — 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

GETGP6 — Investigator® 24plex — 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10				

HA6WR9 — GlobalFiler™ — 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

HB2GE9 — GlobalFiler™ — 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	Not Tested
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	Not Tested	Not Tested	18,26.2	6,9.3	8,11
17,17	10	Not Tested	Not Tested	2	

HEYXTM — PowerPlex® Fusion 5C — 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12		6,9.3	8,11
17	10				

TABLE 1

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

Item 2 - STR Results

HFH6MQ — Investigator® 24plex — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	N/A
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	N/A	N/A	18,26.2	6,9.3	8,11
17,17	10	N/A	N/A	N/A	

HG79M7 — PowerPlex® Fusion — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12		6,9.3	8,11
17	10				

HJV3JR — GlobalFiler™ Express — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

HRL6LH — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

HZPENM — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

J6BGKD — PowerPlex® Fusion — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12		6,9.3	8,11
17	10				

JBJAYN — PowerPlex® Fusion 6C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

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

JCFMLF	PowerPlex® Fusion 6C					
	16,18.3	17,19	11,14	15,18	11,11	
2	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12	18,26.2	6,9.3	8,11
	17,17	10	16	17		

JKUCKN	PowerPlex® Fusion 6C					
	16,18.3	17,19	11,14	15,18	11,11	
2	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12	18,26.2	6,9.3	8,11
	17,17	10	16	17		

JNN2GG	GlobalFiler™ Express					
	16,18.3	17,19	11,14	15,18	11	NT
2	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21	NT	NT	18,26.2	6,9.3	8,11
	17	10	NT	NT	2	

JP2XCR	GlobalFiler™ (STRmix)					
	16,18.3	17,19	11,14	15,18	11	
2	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	

JTMK6F	PowerPlex® Fusion 6C					
	16,18.3	17,19	11,14	15,18	11,11	
2	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12	18,26.2	6,9.3	8,11
	17,17	10	16	17		

JZM46P	GlobalFiler™					
	16,18.3	17,19	11,14	15,18	11	
2	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	

KBB2H3	GlobalFiler™					
	16,18.3	17,19	11,14	15,18	11	
2	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	

TABLE 1

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

Item 2 - STR Results

KEC2KK — 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
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12		6,9.3	8,11
17	10				

KRL8YY — 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
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

KU2EQZ — PowerPlex® Fusion 5 — 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
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12		6,9.3	8,11
17,17	10				

KU8QCB — 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
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12		6,9.3	8,11
17	10				

L67737 — 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
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

L679QP — Investigator® 24plex GO! — 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
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10				

L8W89U — 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
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

TABLE 1

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

Item 2 - STR Results

LBWJ6U	Investigator® 24plex (STRmix)					
	16,18.3	17,19	11,14	15,18	11,11	
2	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10				
LFPK4M	GlobalFiler™					
	16,18.3	17,19	11,14	15,18	11	
2	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	
LGJ9MH	GlobalFiler™					
	16,18.3	17,19	11,14	15,18	11	
2	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	
LLUUBB	PowerPlex® Fusion					
	16,18.3	17,19	11,14	15,18	11	
2	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21	11,12	10,12		6,9.3	8,11
	17	10				
LP7289	GlobalFiler™					
	16,18.3	17,19	11,14	15,18	11	
2	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	
LQ2PLX	Investigator® 24plex					
	16,18.3	17,19	11,14	15,18	11,11	
2	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10				
LVFVRK	PowerPlex® Fusion					
	16,18.3	17,19	11,14	15,18	11	
2	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21	11,12	10,12		6,9.3	8,11
	17	10				

TABLE 1

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

Item 2 - STR Results

M7Z2G2 — Investigator® 24plex

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,18.3	17,19	11,14	15,18	11	
	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10				

M99733 — Investigator® 24plex

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10				

MDTW2D — GlobalFiler™ Express

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,18.3	17,19	11,14	15,18	11	
	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10		2		

MJ8YCU — Investigator® 24plex

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10				

MNNCH2 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10		2		

MYVUFY — PowerPlex® 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12		6,9.3	8,11
	17,17	10				

N2K7XA — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
2	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12	18,26.2	6,9.3	8,11
	17,17	10	16	17		

TABLE 1

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

Item 2 - STR Results

N2UR2B GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

N9496C Identifiler® ID+ (STRMIX)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,19		15,18	11,11	
10,11	11,13			9,12	11,11
15,17	14,15.2	29,31		X,Y	11,11
19,21				6,9.3	8,11
17,17					

NDM9QC Investigator® 24plex

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

NG67KU GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

NLGGB4 PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

NMMR3M GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

NZ4HC4 PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12		6,9.3	8,11
17	10				

TABLE 1

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

Item 2 - STR Results

P39WML — GlobalFiler™

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
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

P3MWEJ — PowerPlex® Fusion 6C

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
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

P43K4V — Investigator® 24plex

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
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10				

P4C86C — PowerPlex® Fusion

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
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12		6,9.3	8,11
17,17	10				

P9N9AF — PowerPlex® Fusion

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
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12		6,9.3	8,11
17	10				

PF9W2H — GlobalFiler™ Express

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
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

PK297A — GlobalFiler™ Express

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
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			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

PLU7EF GlobalFiler™ (Item 2)

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

PNX2VX PowerPlex® Fusion 5C (Item 2)

16,18.3	17,19	11,14	15,18	11,11	Not Tested
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	Not Tested	6,9.3	8,11
17,17	10	Not Tested	Not Tested	Not Tested	

PPYPJ3 GlobalFiler™ Express (Item 2)

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

PXD4GJ GlobalFiler™ Express (Item 2)

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

PYNKFX GlobalFiler™ (Item 2)

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

PZWWXY GlobalFiler™ (Item 2)

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

Q6RDCJ GlobalFiler™ (STRmix) (Item 2)

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

TABLE 1

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

Item 2 - STR Results

QAYCGC — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

QC88XF — GlobalFiler™ Express — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

QJ2R6W — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

QKUPD3 — Investigator® 24plex — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

QLTQLF — Investigator® 24plex — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

QPTYN6 — PowerPlex® Fusion — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12		6,9.3	8,11
17	10				

R2QN9G — Investigator® 24plex GO! — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10				

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 2 - STR Results

R7RF9T — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

Item: 2

R7WVLU — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

Item: 2

RDGW28 — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17	10	16	17		

Item: 2

RN4HFM — Investigator® 24plex (STRMix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

Item: 2

RND4G3 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

Item: 2

RNGG97 — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12		6,9.3	8,11
17	10				

Item: 2

RYVGY8 — GlobalFiler™ (TrueAllele)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

Item: 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

T7UK6G — Identifiler® Direct

	17,19		15,18	11	
10,11	11,13			9,12	11
15,17	14,15.2	29,31		X,Y	11
19,21				6,9.3	8,11
17					

T9LU2H — GlobalFiler™

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

TANM6B — PowerPlex® Fusion 6C

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

TDB779 — PowerPlex® Fusion 6C

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

THM6L9 — Identifiler® Plus

	17,19		15,18	11,11	
10,11	11,13			9,12	11,11
15,17	14,15.2	29,31		X,Y	11,11
19,21				6,9.3	8,11
17,17					

TPEJ2L — Investigator® 24plex

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

TTPUPA — PowerPlex® Fusion

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12		6,9.3	8,11
17,17	10				

TABLE 1

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

Item 2 - STR Results

U43PGN GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

Item: 2

U9C3Z8 Identifiler® Direct

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,19		15,18	11	
10,11	11,13			9,12	11
15,17	14,15.2	29,31		X,Y	11
19,21				6,9.3	8,11
17					

Item: 2

UARTD4 PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

Item: 2

UCVYMC GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

Item: 2

UFJX9T Investigator® 24plex

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10				

Item: 2

UG3REM PowerPlex® 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

Item: 2

UG86ZX GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			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	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
UJFLTF	GlobalFiler™ Express					
	16,18.3	17,19	11,14	15,18	11	
2	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	
UK24BM	GlobalFiler™					
	16,18.3	17,19	11,14	15,18	11,11	N/A
2	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	N/A	N/A	18,26.2	6,9.3	8,11
	17,17	10	N/A	N/A	2	
UUD36X	GlobalFiler™					
	16,18.3	17,19	11,14	15,18	11,11	
2	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			2	
UWJHHV	GlobalFiler™					
	16,18.3	17,19	11,14	15,18	11,11	
2	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			2	
VMNZGR	GlobalFiler™					
	16,18.3	17,19	11,14	15,18	11	
2	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	
VMYWFC	Investigator® 24plex QS					
	16,18.3	17,19	11,14	15,18	11	
2	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10				
VRJWYR	PowerPlex® Fusion 6C					
	16,18.3	17,19	11,14	15,18	11,11	
2	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12	18,26.2	6,9.3	8,11
	17,17	10,10	16,16	17,17		

TABLE 1

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

Item 2 - STR Results

VV2UUA   GlobalFiler™ Express (GFF v2.7.5 beta)   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
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

W4DCNT   PowerPlex® Fusion 5C   Item 2

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12		6,9.3	8,11
17,17	10				

W8NME2   PowerPlex® Fusion 6C   Item 2

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

WEDXWC   Identifiler®   Item 2

	17,19		15,18	11	
10,11	11,13			9,12	11
15,17	14,15.2	29,31		X,Y	11
19,21				6,9.3	8,11
17					

WGE4AX   GlobalFiler™   Item 2

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

WQ6K38   GlobalFiler™   Item 2

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

WRYYKB   GlobalFiler™ Express   Item 2

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

TABLE 1

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

Item 2 - STR Results

WUTNX6 — Identifiler® Plus — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,19		15,18	11,11	
10,11	11,13			9,12	11,11
15,17	14,15.2	29,31		X,Y	11,11
19,21				6,9.3	8,11
17,17					

WZ92CP — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

WZELND — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

X24MYN — Investigator® 24plex — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

X72QZE — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

X7L8EV — GlobalFiler™ — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

X8X796 — PowerPlex® Fusion 5C — Item 2

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12		6,9.3	8,11
17,17	10				

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

XB78YV 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
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

XCJRR7 GlobalFiler™ (Item 2)

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

XF3Q6Z PowerPlex® Fusion 6C (Item 2)

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17	10	16	17		

XGHFVD PowerPlex® Fusion (Item 2)

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12		6,9.3	8,11
17,17	10				

XVGURV GlobalFiler™ (Item 2)

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

XY32GP Investigator® 24plex (STRmix) (Item 2)

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10				

YCVR6R PowerPlex® Fusion 6C (Item 2)

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

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

YG9QLR — GlobalFiler™ Express (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

YNP9UT — Investigator® 24plex (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

YU3CDM — Investigator® 24plex (STRmix) (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

YZ47YW — PowerPlex® Fusion 5C (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	Not Tested
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	Not Tested	6,9.3	8,11
17,17	10	Not Tested	Not Tested	Not Tested	

Z3CZPZ — Identifiler® Plus (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,19		15,18	11,11	
10,11	11,13			9,12	11,11
15,17	14,15.2	29,31		X,Y	11,11
19,21				6,9.3	8,11
17,17					

ZLJ2BZ — Identifiler® Direct (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
-	17,19	-	15,18	11	-
10,11	11,13	-	-	9,12	11
15,17	14,15.2	29,31	-	X,Y	11
19,21	-	-	-	6,9.3	8,11
17	-	-	-	-	

ZWEE8Q — GlobalFiler™ (Item 2)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

TABLE 1

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

Item 2 - STR Results

ZYN366   PowerPlex® Fusion

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
2	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12		6,9.3	8,11
	17,17	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 3 - STR Results

244J47 GlobalFiler™ (STRmix)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11	17,17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

2CNFH8 NGM SElect

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11,11,[14]	17,17		
		13,15	14,15	15,19		12,13
	15,16	12,14	28,29	15,15	X,X	
	24,24			18,20	8,8	
	14,17					

2DH423 PowerPlex® Fusion

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24	10	7,12		8	8
	14,17	NR				

2J44BN GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	No Results			No Results	

2PZLVV PowerPlex® Fusion 5C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24	10	7,12		8	8
	14,17	NR				

2XAYUQ PowerPlex® Fusion 5C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12		8,8	8,8
	14,17	No Results				

2XPGTP GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

TABLE 1

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

Item 3 - STR Results

2Z4BZW	PowerPlex® Fusion 6C					
	12,14	21,25	11,11	17,17	7,12	
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17	NR	NR	NR		
38YP3A	GlobalFiler™ (STRmix)					
	12,14	21,25	11	17	7,12	
3	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					
3DNA44	PowerPlex® Fusion 6C					
	12,14	21,25	11,11	17,17	7,12	
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17	NR	NR	NR		
3P4WGB	Investigator® 24plex (STRmix)					
	12,14	21,25	11,11	17,17	7,12	
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					
3ZY8MW	PowerPlex® Fusion 6C					
	12,14	21,25	11,11	17,17	7,12	
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17	NR	NR	NR		
4M8Z6M	Investigator® 24plex (STRMIX)					
	12,14	21,25	11	17	7,12	
3	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X,X	10,12
	24			18,20	8	8
	14,17					
4P63YJ	GlobalFiler™					
	12,14	21,25	11,11	17,17	7,12	
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	No Results			No Results	

TABLE 1

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

Item 3 - STR Results

WebCode / 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
4PACYW	GlobalFiler™					
	12,14	21,25	11	17	7,12	
3	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17	No Results			No Results	
4QJJZ4	PowerPlex® Fusion 6C, MiniFiler					
	12,14	21,25	11,11	17,17	7,12	
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17	No Results	No Results	No Results		
4U3GQE	GlobalFiler™					
	12,14	21,25	11,11	17,17	7,12	
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					
4UJPGU	PowerPlex® esi-fast, Fusion 6C (EuroForMix)					
	12,14	21,25	11,11	17,17	7,12	
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17					
4VF44M	GlobalFiler™					
	12,14	21,25	11	17	7,12	
3	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17	NR			NR	
4YDRGN	GlobalFiler™					
	12,14	21,25	11	17	7,12	
3	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					
6936LK	Investigator® 24plex (STRmix)					
	12,14	21,25	11,11	17,17	7,12	N/A
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	N/A	N/A	18,20	8,8	8,8
	14,17		N/A	N/A	N/A	

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

6BLUHC — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

6HKCWN — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	N.D.			N.D.	

6NFFA8 — PowerPlex® Fusion (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12		8,8	8,8
14,17					

6QEGPP — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	N.D.			N.D.	

6QMVJY — PowerPlex® Fusion 5C (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12		8,8	8,8
14,17					

6REUXW — PowerPlex® 21 (STRmix) (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25		17,17	7,12	14,19
11,11	13,15		15,19	11,13	12,13
15,16	12,14	28,29		X,X	10,12
24,24	10,10	7,12		8,8	8,8
14,17					

6Y2GUN — Investigator® 24plex (STRmix) (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

TABLE 1

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

Item 3 - STR Results

7AAABM	GlobalFiler™					
	12,14	21,25	11,11	17,17	7,12	
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	Not Detected			Not Detected	
7AGQX8	Investigator® 24plex (STRmix)					
	12,14	21,25	11,11	17,17	7,12	
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					
7AUMY7	PowerPlex® Fusion					
	12,14	21,25	11,11	17,17	7,12	
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12		8,8	8,8
	14,17					
7QTB2J	GlobalFiler™					
	12,14	21,25	11,11	17,17	7,12	
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					
7WF39C	PowerPlex® Fusion 5C					
	12,14	21,25	11,11	17,17	7,12	
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12		8,8	8,8
	14,17	No Results				
7ZNHBV	PowerPlex®					
	12,14	21,25	11	17		
3		13,15	14,15	15,19		12,13
	15,16	12,14	28,29	15	X	
	24				8	
	14,17					
82FTNA	Investigator® 24plex (STRmix)					
	12,14	21,25	11,11	17,17	7,12	
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					

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

8EHLRR PowerPlex® Fusion 6C (Lab Retriever)   Item 3

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12	18,20	8	8
14,17					

8L4F7C Investigator® 24plex (STRmix)   Item 3

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

8Y2YG3 Identifiler® Plus   Item 3

	21,25		17	7,12	
11	13,15			11,13	12,13
15,16	12,14	28,29		X,X	10,12
24				8	8
14,17					

94RVJY GlobalFiler™   Item 3

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	No results			No results	

9DK7TU Identifiler® Plus   Item 3

-	21,25	-	17	7,12	-
11	13,15	-	-	11,13	12,13
15,16	12,14	28,29	-	X,X	10,12
24	-	-	-	8	8
14,17	-	-	-	-	

9FB9YH GlobalFiler™   Item 3

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17	NR			NR	

9WRGUR PowerPlex® Fusion 6C   Item 3

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12	18,20	8	8
14,17					

TABLE 1

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

Item 3 - STR Results

A3RFHL   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
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

A7CTDN   Investigator® 24plex (STRmix)   Item 3

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

AEBPAL   PowerPlex® Fusion   Item 3

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12		8	8
14,17	NR				

AFRB99   Investigator® 24plex (STRmix)   Item 3

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

AMBG3U   PowerPlex® Fusion 6C   Item 3

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	NR	NR	NR		

ATQRPP   GlobalFiler™   Item 3

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

AUUKAX   PowerPlex® Fusion 6C   Item 3

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	NR	NR	NR		

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 3 - STR Results

B3XEJF — Investigator® 24plex (STRmix)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					

B3Z4QY — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

BAA6GL — PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24	10	7,12	18,20	8	8
	14,17					

BDGVA2 — PowerPlex® Fusion

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12		8,8	8,8
	14,17					

BGT726 — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					

BN22AQ — Identifiler® Plus (STRmix)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3		21,25		17,17	7,12	
	11,11	13,15			11,13	12,13
	15,16	12,14	28,29		X,X	10,12
	24,24				8,8	8,8
	14,17					

BPH4LJ — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	No Results			No Results	

TABLE 1

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

Item 3 - STR Results

CGAMUD — PowerPlex® Fusion 5C (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12		8	8
14,17					

CKT76E — Investigator® 24plex (STRmix) (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

CKVWBW — Investigator® 24plex QS (STRmix) (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

CN4RME — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

CTQYBM — PowerPlex® Fusion 6C (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	ND	ND	ND		

CXCJUN — GlobalFiler™ (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17	NR			NR	

CXWZAQ — Identifiler® Plus (Item 3)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	21,25		17	7,12	
11	13,15			11,13	12,13
15,16	12,14	28,29		X,X	10,12
24				8	8
14,17					

TABLE 1

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

Item 3 - STR Results

CZ2XC7   PowerPlex® Fusion 5C

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12		8,8	8,8
14,17					

(Item 3)

DBG36N   Identifiler® Plus

	21,25		17	7,12	
11	13,15			11,13	12,13
15,16	12,14	28,29		X,X	10,12
24				8	8
14,17					

(Item 3)

DG2N7Z   GlobalFiler™

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	/			/	

(Item 3)

DGU88U   Investigator® 24plex QS (STRmix)

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

(Item 3)

DLZCUG   GlobalFiler™

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	Not Detected			Not Detected	

(Item 3)

E3NEDW   GlobalFiler™

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

(Item 3)

E4LRY4   Investigator® 24plex (STRmix)

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

(Item 3)

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

EJM9CB	PowerPlex® Fusion 6C					
	12,14	21,25	11,11	17,17	7,12	
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17	No Results	No Results	No Results		

F46X4E	GlobalFiler™					
	12,14	21,25	11	17	7,12	
3	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

F6ZLH4	PowerPlex® Fusion 6C					
	12,14	21,25	11,11	17,17	7,12	
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17	No Results	No Results	No Results		

FL99CQ	PowerPlex® Fusion 5C					
	12,14	21,25	11,11	17,17	7,12	
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12		8,8	8,8
	14,17	No Results				

FPYYN3	Investigator® 24plex QS (STRmix)					
	12,14	21,25	11,11	17,17	7,12	
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	-				

FQF3ME	PowerPlex® Fusion 6C					
	12,14	21,25	11,11	17,17	7,12	
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17	No Results	No Results	No Results		

FW9XVD	GlobalFiler™					
	12,14	21,25	11,11	17,17	7,12	
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	N.D.			N.D.	

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

FX4L8G — 3 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

FZBYVB — 3 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17	No Result			No Result	

GBWPJT — 3 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

GETGP6 — 3 — Investigator® 24plex (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

HA6WR9 — 3 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

HB2GE9 — 3 — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	Not Tested
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	Not Tested	8,8	8,8
14,17	No Results	Not Tested	Not Tested	Not Tested	

HEYXTM — 3 — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12		8	8
14,17					

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 3 - STR Results

HFH6MQ — Investigator® 24plex (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
12,14	21,25	11,11	17,17	7,12	N/A
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	N/A	N/A	18,20	8,8	8,8
14,17	No Result	N/A	N/A	N/A	

HG79M7 — PowerPlex® Fusion — Item 3

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X,X	10,12
24	10	7,12		8	8
14,17					

HZPENM — GlobalFiler™ — Item 3

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17	No Results			No Results	

J6BGKD — PowerPlex® Fusion — Item 3

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12		8	8
14,17	NR				

JNN2GG — GlobalFiler™ — Item 3

12,14	21,25	11	17	7,12	NT
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	NT	NT	18,20	8	8
14,17	NR	NT	NT	NR	

JP2XCR — GlobalFiler™ (STRmix) — Item 3

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

JTMK6F — PowerPlex® Fusion 6C — Item 3

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	NR	NR	NR		

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 3 - STR Results

JZM46P — GlobalFiler™

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

(Item 3)

KBB2H3 — GlobalFiler™

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X,X	10,12
24			18,20	8	8
14,17					

(Item 3)

KEC2KK — PowerPlex® Fusion

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12		8	8
14,17	NR				

(Item 3)

KRL8YY — Investigator® 24plex, MiniFiler (STRmix V. 2.4.06)

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

(Item 3)

KU2EQZ — GlobalFiler™

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	No Results			No Results	

(Item 3)

L67737 — Investigator® 24plex (STRmix V2.4.06)

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

(Item 3)

L679QP — Investigator® 24plex QS

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

(Item 3)

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 3 - STR Results

L8W89U Investigator® 24plex (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
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

LBWJ6U Investigator® 24plex (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
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

LFPK4M 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
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

LGJ9MH 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
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17	no results			no results	

LLUUBB 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
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12		8	8
14,17	NR				

LP7289 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
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

LQ2PLX 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
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	No Results			No 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 3 - STR Results

LVFVRK — PowerPlex® Fusion — Item 3

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24	10	7,12		8	8
	14,17	NR				

M7Z2G2 — Investigator® 24plex (STRmix) — Item 3

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

M99733 — Investigator® 24plex (STRmix) — Item 3

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					

MDTW2D — GlobalFiler™ — Item 3

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17	NR			NR	

MJ8YCU — Investigator® 24plex (STRmix) — Item 3

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					

MNNCH2 — Investigator® 24plex — Item 3

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	No Results				

MYVUFY — GlobalFiler™ — Item 3

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	No Results			No Results	

TABLE 1

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

Item 3 - STR Results

N2K7XA — 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
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	NR	NR	NR		

N9496C — Identifiler® ID+ — Item 3

	21,25		17,17	7,12	
11,11	13,15			11,13	12,13
15,16	12,14	28,29		X,X	10,12
24,24				8,8	8,8
14,17					

NG67KU — Investigator® 24plex — Item 3

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	No Results				

NMMR3M — GlobalFiler™ — Item 3

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

NZ4HC4 — PowerPlex® Fusion 5C — Item 3

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12		8	8
14,17					

P39WML — GlobalFiler™ (STRmix) — Item 3

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

P3MWEJ — PowerPlex® Fusion, GlobalFiler™ — Item 3

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	No Results			No Results	

TABLE 1

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

Item 3 - STR Results

P43K4V — Investigator® 24plex (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

Item 3

P9N9AF — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12		8	8
14,17	NR				

Item 3

PK297A — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17	No results			No results	

Item 3

PLU7EF — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

Item 3

PNX2VX — Investigator® 24plex QS

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	Not Tested
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	Not Tested	Not Tested	18,20	8,8	8,8
14,17	No Results	Not Tested	Not Tested	Not Tested	

Item 3

PPYPJ3 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17	No Results			No Results	

Item 3

PYNKFX — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X,X	10,12
24			18,20	8	8
14,17					

Item 3

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

PZWWXY — 3 — GlobalFiler™

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
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X,X	10,12
24			18,20	8	8
14,17					

Q6RDCJ — 3 — GlobalFiler™ (STRmix)

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

QAYCGC — 3 — GlobalFiler™

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	NR			NR	

QJ2R6W — 3 — GlobalFiler™

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

QKUPD3 — 3 — PowerPlex® 5C

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12		8,8	8,8
14,17					

QLTQLF — 3 — PowerPlex® Fusion 5C

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12		8,8	8,8
14,17	No Results				

R2QN9G — 3 — Investigator® 24plex QS

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

TABLE 1

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

Item 3 - STR Results

R7RF9T 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
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	No Results			No Results	

R7WVLU 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
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X,X	10,12
24			18,20	8	8
14,17					

RDGW28 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
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12	18,20	8	8
14,17					

RN4HFM Investigator® 24plex (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
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

RND4G3 PowerPlex® Fusion 5C (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
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12		8,8	8,8
14,17	No Results				

RNGG97 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
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24	10	7,12		8	8
14,17	NR				

RYVGY8 GlobalFiler™ (TrueAllele) (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
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

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

T7UK6G Identifiler® Plus

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3		21,25		17	7,12	
	11	13,15			11,13	12,13
	15,16	12,14	28,29		X,X	10,12
	24				8	8
	14,17					

T9LU2H GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

TANM6B PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17					

THM6L9 Identifiler® Plus

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3		21,25		17,17	7,12	
	11,11	13,15			11,13	12,13
	15,16	12,14	28,29		X,X	10,12
	24,24				8,8	8,8
	14,17					

TPEJ2L Investigator® 24plex (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					

TTPUPA PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12		8,8	8,8
	14,17					

U43PGN GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					

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

U9C3Z8 — 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
	21,25		17	7,12	
11	13,15			11,13	12,13
15,16	12,14	28,29		X,X	10,12
24				8	8
14,17					

UARTD4 — PowerPlex® Fusion 6C — Item 3

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	NR	NR	NR		

UCVYMC — GlobalFiler™ — Item 3

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

UFJX9T — Investigator® 24plex (STRMIX) — Item 3

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

UG3REM — Investigator® 24plex — Item 3

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	No Results				

UG86ZX — GlobalFiler™ — Item 3

12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17	NR			NR	

UK24BM — Investigator® 24plex — Item 3

12,14	21,25	11,11	17,17	7,12	N/A
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	N/A	N/A	18,20	8,8	8,8
14,17	No Results	N/A	N/A	N/A	

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

UUD36X (Item 3) — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	No Results			No Results	

UWJHHV (Item 3) — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

VMNZGR (Item 3) — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X,X	10,12
24			18,20	8	8
14,17					

VMYWFC (Item 3) — Investigator® 24plex QS, MiniFiler (STRMix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X,X	10,12
24			18,20	8	8
14,17					

VRJWYR (Item 3) — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	No Results			No Results	

VV2UUA (Item 3) — GlobalFiler™ (GFF v2.7.5 beta)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

W4DCNT (Item 3) — Investigator® 24plex

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	No Results				

TABLE 1

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

Item 3 - STR Results

WEDXWC   Identifiler®

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	21,25		17	7,12	
11	13,15			11,13	12,13
15,16	12,14	28,29		X	10,12
24				8	8
14,17					

WGE4AX   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

WQ6K38   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

WUTNX6   Identifiler® Plus

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	21,25		17,17	7,12	
11,11	13,15			11,13	12,13
15,16	12,14	28,29		X,X	10,12
24,24				8,8	8,8
14,17					

WZ92CP   GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

WZELND   GlobalFiler™ (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

X24MYN   PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17	No Results	No Results	No Results		

TABLE 1

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

Item 3 - STR Results

X72QZE   GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

X7L8EV   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					

X8X796   PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12		8,8	8,8
	14,17					

XB78YV   Investigator® 24plex

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	No Results				

XCJRR7   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					

XF3Q6Z   PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24	10	7,12	18,20	8	8
	14,17					

XGHFVD   PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
3	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12		8,8	8,8
	14,17					

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

WebCode 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
XVGURV — GlobalFiler™						
3	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					
XY32GP — Investigator® 24plex (STRmix)						
3	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					
YG9QLR — GlobalFiler™						
3	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17	NR			NR	
YNP9UT — PowerPlex® Fusion 5C						
3	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12		8,8	8,8
	14,17	No Results				
YU3CDM — Investigator® 24plex (STRmix)						
3	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					
YZ47YW — Investigator® 24plex						
3	12,14	21,25	11,11	17,17	7,12	Not Tested
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	Not Tested	Not Tested	18,20	8,8	8,8
	14,17	No Results	Not Tested	Not Tested	Not Tested	
Z3CZPZ — Identifiler® Plus						
3		21,25		17,17	7,12	
	11,11	13,15			11,13	12,13
	15,16	12,14	28,29		X,X	10,12
	24,24				8,8	8,8
	14,17					

TABLE 1

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

Item 3 - STR Results

ZLJ2BZ	Identifiler® Plus					
	-	21,25	-	17	7,12	-
3	11	13,15	-	-	11,13	12,13
	15,16	12,14	28,29	-	X,X	10,12
	24	-	-	-	8	8
	14,17	-	-	-	-	
ZWEE8Q	GlobalFiler™					
	12,14	21,25	11	17	7,12	
3	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17					
ZYN366	PowerPlex® Fusion					
	12,14	21,25	11,11	17,17	7,12	
3	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12		8,8	8,8
	14,17					

TABLE 1

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

Item 3e - STR Results

F23W4G	GlobalFiler™					
	12,14	21,25	11	17		
3e		13,15	14,15	15,19		12,13
	15,16	12,14	28,29	15	X	
	24			18,20	8	
	14,17					

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 3sp - STR Results

F23W4G	GlobalFiler™					
	-	-	-	-		
3sp		-	-	-		-
	-	-	-	-	-	
	-				-	-
	-					

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 4 - STR Results

FX4L8G — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14,16,18.3	17,19,21,25	11,14	15,17,18	7,11,12	
4	10,11	11,13,15	14,15,17	15,18,19,19.3	9,11,12,13	11,12,13
	15,16,17	12,14,15.2	28,29,31	15,16	X,Y	10,11,12
	19,21,24			18,20,26.2	6,8,9.3	8,11
	14,17	10			2	

HEYXTM — PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14,16,18.3	17,19,21,25	11,14	15,17,18	7,11,12	
4	10,11	11,13,15	14,15,17	15,18,19,19.3	9,11,12,13	11,12,13
	15,16,17	12,14,15.2	28,29,31	15,16	X,Y	10,11,12
	19,21,24	10,11,12	7,10,12		6,8,9.3	8,11
	14,17	10				

UCVYMC — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14,16,18.3	17,19,21,25	11,14	15,17,18	7,11,12	
4	10,11	11,13,15	14,15,17	15,18,19,19.3	9,11,12,13	11,12,13
	15,16,17	12,14,15.2	28,29,31	15,16	X,Y	10,11,12
	19,21,24			18,20,26.2	6,8,9.3	8,11
	14,17	10			2	

VV2UUA — GlobalFiler™ (GFF v2.7.5 beta)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14,16,18.3	17,19,21,25	11,14	15,17,18	7,11,12	
4	10,11	11,13,15	14,15,17	15,18,19,19.3	9,11,12,13	11,12,13
	15,16,17	12,14,15.2	28,29,31	15,16	X,Y	10,11,12
	19,21,24			18,20,26.2	6,8,9.3	8,11
	14,17	10			2	

ZYN366 — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14,16,18.3	17,19,21,25	11,14	15,17,18	7,11,12	
4	10,11	11,13,15	14,15,17	15,18,19,19.3	9,11,12,13	11,12,13
	15,16,17	12,14,15.2	28,29,31	15,16	X,Y	10,11,12
	19,21,24	10,11,12	7,10,12		6,8,9.3	8,11
	14,17	10				

TABLE 1

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

Item 4e - STR Results

244J47 GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,[16],[18.3]	[17],21,25	11	17	7,12	
	11	[11],13,15	14,15	15,19,[19.3]	[9],11,13	12,13
	15,16	12,14,[15.2]	28,29	15	X	10,11,12
	[21],24			18,20,[26.2]	[6],8,[9.3]	8
	14,17	[10]				

2CNFH8 NGM SElect

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,[16]	[17],[19],21,25	11,11	17,17		
		[11],13,15	14,15,[17]	15,19,[19.3]		11,12,13
	15,16	12,14,[15.2]	28,29,[31]	15,15	X,X,[Y]	
	[19],24,24			18,20,[26.2]	8,8,[9.3]	
	14,17					

2DH423 PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,16,18.3	17,19,21,25	11,14	15,17,18	7,12	
	11	11,13,15	14,15,17	15,19,19.3	9,11,12,13	11,12,13
	15,16,17	12,14,15.2	28,29,31	15	X,Y	10,11,12
	19,21,24	10,11,12	7,10,12		6,8,9.3	8,11
	14,17	10				

2J44BN GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,[16],[18.3]	21,25	11,[14]	[15],17	7,12	
	11,11	[11],13,15	14,15,[17]	15,19,[19.3]	[9],11,13	12,13
	15,16	12,14,[15.2]	28,29,[31]	15,15	X,[Y]	10,12
	[21],24			18,20	8,[9.3]	8,8
	14,17	No Results			2	

2PZLVV PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14	17,21,25	11,14	15,17	7,12	
	11	11,13,15	14,15,17	15,19,19.3	11,12,13	11,12,13
	15,16	12,14,15.2	28,29,31	15	X,Y	10,11,12
	21,24	10,12	7,10,12		6,8	8,11
	14,17	NR				

2XAYUQ PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14	21,25	11,11	[15],17,[18]	7,[11],12	
	11,11	[11],13,15	14,15	15,19	11,13	[11],12,13
	15,16	12,14	28,29,[31]	15,15	X,X	10,[11],12
	24,24	10,10	7,12		8,[9.3]	8,[11]
	14,17	No Results				

2XPGTP GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14,[15.2]	28,29	15	X	10,12
	[19],[21],24			18,20	[6],8,[9.3]	8
	14,17					

TABLE 1

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

Item 4e - STR Results

2Z4BZW PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,16,18.3	19,21,25	11,14	15,17,18	7,11,12	
	11	11,13,15	14,15,17	15,19,19.3	9,11,12,13	11,12,13
	15,16	12,14,15.2	28,29,31	15,16	X,Y	10,11,12
	19,21,24	10,12	7,10,12	18,20,26.2	6,8	8,11
	14,17	10	16	17		

38YP3A GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,16,18.3	17,21,25	11	15,17	7,11,12	
	11	13,15	14,15,17	15,19	9,11,13	12,13
	15,16	12,14,15.2	28,29,31	15,16	X,Y	10,11,12
	19,24			18,20	8	8
	14,17	10			2	

3DNA44 PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,16,18.3	17,19,21,25	11,14	15,17,18	7,11,12	
	11	11,13,15	14,15,17	15,19,19.3	9,11,12,13	11,12,13
	15,16,17	12,14,15.2	28,29,31	15	X,Y	10,12
	19,21,24	10,12	7,10,12	18,20,26.2	6,8,9.3	8,11
	14,17	10	16	17		

3P4WGB Investigator® 24plex (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,16,18.3	17,19,21,25	10,11,14	15,16,17	7,11,12	
	10,11	11,12,13,14,15	13,14,15,17	14,15,18,19	10,11,12,13	11,12,13
	14,15,16	11,12,13,14	27,28,29	14,15,16	X,Y	9,10,11,12
	19,21,24			17,18,19,20,26.2	7,8,9.3	8,11
	13,14,16,17	10				

3ZY8MW PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14	21,25	11,14	15,17	7,12	
	11	11,13,15	14,15	15,19	9,11,13	12,13
	15,16	12,14	28,29	15	X,Y	10,12
	21,24	10,12	7,10,12	18,20,26.2	6,8	8
	14,17	NR	16	17		

4M8Z6M Investigator® 24plex (STRMIX)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X,X	10,12
	24			18,20	8	8
	14,17					

4P63YJ GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,[16]	21,25	11,[14]	17,[18]	7,12	
	11,11	13,15	14,15	15,19,[19.3]	[9],11,13	[11],12,13
	15,16,[17]	12,14,[15.2]	28,29,[31]	15,15	X,[Y]	10,12
	24,24			18,20	8,[9.3]	8,8
	14,17	10			2	

TABLE 1

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

Item 4e - STR Results

4PACYW GlobalFiler™

4e					
12,14,[16,18.3]	[17],21,25	11,[14]	[15],17,[18]	7,12	
11	[11],13,15	14,15,[17]	15,19,[19.3]	11,[12],13	12,13
15,16,[17]	12,14	28,29	15	X,[Y]	10,[11],12
24			18,20,[26.2]	[6],8,[9.3]	8
14,17	No Results			No Results	

4QJJZ4 PowerPlex® Fusion 6C, MiniFiler

4e					
12,14	21,25	11,11	[15],17	7,[11],12	
11,11	[11],13,15	14,15,[17]	15,19,[19.3]	11,[12],13	[11],12,13
15,16	12,14	28,29	15,15	X,X	10,[11],12
[19],[21],24	10,10	7,12	18,20	8,[9.3]	8,8
14,17	10	No Results	No Results		

4U3GQE GlobalFiler™

4e					
12,14,[16],[18.3]	[17],21,25	11,[14]	17,[18]	7,[11],12	
11	[11],13,15	14,15,[17]	15,19,[19.3]	[9],11,[12],13	[11],12,13
15,16	12,14,[15.2]	28,29,[31]	15	X,[Y]	10,[11],12
[19],[21],24			18,20	8	8
14,17				[2]	

4UJPGU PowerPlex® esi-fast, Fusion 6C (EuroForMix)

4e					
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17					

4VF44M GlobalFiler™

4e					
12,14	[17,19],21,25	11,[14]	[15],17	7,[11],12	
11	[11],13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X,[Y]	10,[11],12
[21],24			18,20	8	8
14,17	NR			[2]	

4YDRGN GlobalFiler™

4e					
12,14,[18.3]	[17],19,21,25	11,[14]	[15],17,[18]	7,11,12	
11	[11],13,15	14,15	15,19,[19.3]	[9],11,12,13	11,12,13
15,16,[17]	12,14,[15.2]	28,29,[31]	15,16	X,[Y]	10,11,12
[19],[21],24			18,20,[26.2]	[6],8,[9.3]	8
14,17	[10]			[2]	

6936LK Investigator® 24plex (STRmix)

4e					
12,13,14	20,21,24,25	10,11	15,16,17	7,11,12	N/A
10,11	12,13,14,15	13,14,15	15,19	11,12,13	11,12,13
14,15,16	11,12,13,14	28,29	14,15,16	X	10,11,12
23,24,25	N/A	N/A	17,18,19,20	8	8,11
14,17	N/A	N/A	N/A	N/A	

TABLE 1

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

Item 4e - STR Results

6BLUHC GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	17,21,25	11	17	7,[11,]12	
4e	11	13,15	14,15	15,19	11,[12,]13	[11,]12,13
	15,16	12,14	28,29	15,[16]	X	10,[11,]12
	24			18,20	8	8
	14,17				[2]	

6HKCWN GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	(19),21,25	11,11	17,17	7,(11),12	
4e	11,11	13,15	14,15	15,19	11,13	(11),12,13
	15,16	12,14	28,29	15,15	X,X,(Y)	10,12
	24,24			18,20,(26.2)	8,8	8,8
	14,17	N.D.			2	

6NFFA8 PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14,16	17,19,21,25	11,11,[14]	[15],17,17,[18]	7,11,12	
4e	[10],11,11	11,13,15	14,15	15,18,19,19.3	9,11,12,13	11,12,13
	15,16,17	12,14,[15.2]	28,29,31	15,16	X,X,[Y]	10,11,12
	19,21,24	10,10,[11,12]	7,10,12		[6],8,8,[9.3]	8,8,[11]
	14,17	10				

6QEGPP GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,[11],12	
4e	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	N.D.			2	

6QMVJY PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14,16	17,19,21,25	11,11,[14]	15,17,18	7,11,12	
4e	[10],11,11	11,13,15	14,15	15,18,19	9,11,12,13	11,12,13
	15,16,17	12,14,15.2	28,29,31	15,16	X,X,[Y]	10,11,12
	[19,21],24,24	10,10	7,10,12		[6],8,8,[9.3]	8,8,[11]
	14,17	10				

6REUXW PowerPlex® 21 (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14,18.3	17,19,21,25		15,17	7,11,12	14,19,20
4e	11	11,13,15		15,19	9,11,12,13	11,12,13
	15,16,17	12,14	28,29		X,X	10,11,12
	19,21,24	10	7,10,12		8,9.3	8
	14,17					

6Y2GUN Investigator® 24plex (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	11,12,13,14,16	20,21,24,25	10,11	16,17,18	7,11,12	
4e	10,11	12,13,14,15	13,14,15	14,15,18,19	11,12,13	11,12,13
	14,15,16	12,13,14	27,28,29	14,15,16	X	10,11,12
	19,23,24			17,18,19,20	8	8
	13,14,16,17	10				

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 4e - STR Results

(For each item, the five data rows correspond to the five locus rows of the header above.)

7AAABM — GlobalFiler™ (Item 4e)

D1S1656 …	D2S1338 …	D2S441 …	D3S1358 …	D5S818 …	D6S1043 …
12,14,[16]	[17],[19],21,25	11,11,[14]	[15],17,17	7,[11],12	
11,11	13,15	14,15,[17]	15,19	[9],11,13	12,13
15,16	12,14	28,29	15,15	X,X,[Y]	10,12
24,24			18,20	8,8	8,8
14,17	10			Not Detected	

7AGQX8 — Investigator® 24plex (STRmix) (Item 4e)

D1S1656 …	D2S1338 …	D2S441 …	D3S1358 …	D5S818 …	D6S1043 …
11,12,13,14,16	17,19,21,25	10,11	15,16,17,18	7,11,12	
10,11	12,13,14,15	13,14,15,16,17	14,15,18,19,19.3	9,10,11,12,13	11,12,13
14,15,16	11,12,13,14,15.2	27,28,29,31	14,15,16	X	9,10,11,12
21,23,24			17,18,19,20	6,8,9.3	8
13,14,16,17	10				

7AUMY7 — PowerPlex® Fusion (Item 4e)

D1S1656 …	D2S1338 …	D2S441 …	D3S1358 …	D5S818 …	D6S1043 …
12,14,[16]	[17],21,25	11,11	[15],17,17,[18]	7,[11],12	
[10],11,11	[11],13,15	14,15	15,[18],19	11,13	11,12,13
15,16,[17]	12,14,[15.2]	28,29	15,15,[16]	X,X,[Y]	10,[11],12
24,24	10,10,[11,12]	7,12		[6],8,8,[9.3]	8,8,[11]
14,17					

7QTB2J — GlobalFiler™ (Item 4e)

D1S1656 …	D2S1338 …	D2S441 …	D3S1358 …	D5S818 …	D6S1043 …
12,14	[17],21,25	11,11,[14]	[15],17,17,[18]	7,[11],12	
11,11	13,15	14,15,[17]	15,19	11,13	[11],12,13
15,16	12,14	28,29,[31]	15,15,[16]	X,X,[Y]	10,[11],12
[21],24,24			18,20	[6],8,8,[9.3]	8,8
14,17					

7WF39C — PowerPlex® Fusion 5C (Item 4e)

D1S1656 …	D2S1338 …	D2S441 …	D3S1358 …	D5S818 …	D6S1043 …
12,14	[19],21,25	11,11	17,17	7,12	
11,11	[11],13,15	14,15,[17]	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12		8,8	8,[11]
14,17	No results				

7ZNHBV — PowerPlex® (Item 4e)

D1S1656 …	D2S1338 …	D2S441 …	D3S1358 …	D5S818 …	D6S1043 …
12,14	21,25	11	17		
	13,15	14,15	15,19		12,13
15,16	12,14	28,29	15	X	
24				8	
14,17					

82FTNA — Investigator® 24plex (STRmix) (Item 4e)

D1S1656 …	D2S1338 …	D2S441 …	D3S1358 …	D5S818 …	D6S1043 …
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

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 4e - STR Results

8EHLRR PowerPlex® Fusion 6C (Lab Retriever)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,16	19,21,25	11,14	17,18	7,11,12	
	11	13,15	14,15	15,19	9,11,13	11,12,13
	15,16	12,14	28,29,31	15	X	10,12
	19,24	10,12	7,10,12	18,20,26.2	6,8	8
	14,17					

8L4F7C Investigator® 24plex (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,16,18.3	19,20,21,24,25	10,11	15,16,17,18	7,11,12	
	10,11	11,12,13,14,15	13,14,15	15,18,19,19.3	9,10,11,12,13	11,12,13
	14,15,16	11,12,13,14,15.2	27,28,29	14,15,16	X	9,10,11,12
	19,21,24			17,18,19,20	7,8,9.3	8,11
	13,14,16,17	10				

8Y2YG3 Identifiler® Plus

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e		17,19,21,25		15,17,18	7,11,12	
	11	11,13,15			9,11,12,13	11,12,13
	15,16	12,14,15.2	28,29,31		X,Y	10,11,12
	19,21,24				6,8,9.3	8,11
	14,17					

94RVJY GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,[16]	[17],[19],21,25	11,[14]	[15],17	7,12	
	11,11	[11],13,15	14,15,[17]	15,19	[9],11,13	12,13
	15,16	12,14	28,29,[31]	15,15	X,[Y]	10,12
	[19],[21],24			18,20	[6],8,[9.3]	8,[11]
	14,17	10			No results	

9DK7TU Identifiler® Plus

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	-	21,25	-	17	7,12	-
	11	13,15	-	-	11,13	12,13
	15,16	12,14	28,29	-	X,X	10,12
	24	-	-	-	8	8
	14,17	-	-	-	-	

9FB9YH GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14	(17,19),21,25	11,(14)	(15),17,(18)	7,(11)12	
	11	13,15	14,15	15,19,(19.3)	(9),11,(12),13	(11),12,13
	15,16,(17)	12,14,(15.2)	28,29	15	X,(Y)	10,(11),12
	(19),24			18,20	(6),8	8,(11)
	14,17	(10)			(2)	

9WRGUR PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,[16]	[17,19],21,25	11,[14]	[15],17	7,[11],12	
	11	[11],13,15	14,15,[17]	15,19,[19.3]	11,13	12,13
	15,16,[17]	12,14,[15.2]	28,29	15	X,[Y]	10,12
	[21],24	10,[12]	7,[10],12	18,20,[26.2]	[6],8,[9.3]	8
	14,17		[16]	[17]		

TABLE 1

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

Item 4e - STR Results

A3RFHL GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

A7CTDN Investigator® 24plex (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,13,14	21,25	10,11	16,17	7,11,12	
10,11	12,13,14,15	13,14,15	15,18,19	11,12,13	11,12,13
14,15,16	12,14	28,29	14,15,16	X	10,11,12
21,23,24			17,18,19,20	8	8
14,16,17					

AEBPAL PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14,[16],[18.3]	[19],21,25	11,[14]	[15],17,[18]	7,[11],12	
11	[11],13,15	14,15	15,19,[19.3]	11,[12],13	[11],12,13
15,16	12,14,[15.2]	28,29,[31]	15	X,[Y]	10,[11],12
[19],[21],24	10,[11],[12]	7,[10],12		[6],8,[9.3]	8,[11]
14,17	[10]				

AFRB99 Investigator® 24plex (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
11,12,13,14,16	17,19,21,25	10,11,14	15,16,17	7,11,12	
10,11	12,13,14,15	13,14,15,17	15,18,19,19.3	9,11,12,13	11,12,13
14,15,16,17	12,13,14	28,29	14,15,16	X	10,11,12
21,23,24			17,18,19,20,26.2	6,8,9.3	8,11
13,14,16,17	10				

AMBG3U PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14,16,18.3	17,19,21,25	11,14	15,17	7,11,12	
11	11,13,15	14,15,17	15,19,19.3	9,11,13	11,12,13
15,16	12,14	28,29,31	15	X	10,11,12
19,21,24	10,12	7,12	18,20,26.2	6,8,9.3	8,11
14,17	10	NR	17		

ATQRPP GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17					

AUUKAX PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14,16	17,19,21,25	11,14	15,17	7,11,12	
11	11,13,15	14,15,17	15,19,19.3	9,11,13	11,12,13
15,16	12,14	28,29,31	15,16	X	10,12
19,21,24	10,12	7,10,12	18,20,26.2	6,8,9.3	8,11
14,17	10	16	17		

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 4e - STR Results

B3XEJF — Investigator® 24plex (STRmix)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	11,12,13,14	20,21,24,25	10,11	16,17	7,11,12	
	10,11	12,13,14,15	13,14,15	14,15,18,19,19.3	11,12,13	11,12,13
	14,15,16	12,13,14	27,28,29,31	14,15,16	X,X	10,11,12
	23,24			17,18,19,20	6,8	8
	13,14,16,17	10				

B3Z4QY — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,18.3	19,21,25	11,14	15,17	7,11,12	
	11	13,15	14,15,17	15,19,19.3	9,11,13	12,13
	15,16,17	12,14,15.2	28,29	15,16	X,Y	10,11,12
	19,24			18,20	6,8,9.3	8,11
	14,17					

BAA6GL — PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,16,18.3	17,19,21,25	11	15,17	7,11,12	
	11	11,13,15	14,15,17	15,19,19.3	9,11,12,13	11,12,13
	15,16,17	12,14,15.2	28,29,31	15	X,Y	10,12
	19,21,24	10,12	7,10,12	18,20,26.2	6,8,9.3	8,11
	14,17	10	16	17		

BDGVA2 — PowerPlex® Fusion

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,[16],[18.3]	[17],[19],21,25	11,11,[14]	[15],17,[18]	7,11,12	
	[10],11,11	11,13,15	14,15,17	15,18,19,19.3	9,11,12,13	11,12,13
	15,16,[17]	12,14,[15.2]	28,29,[31]	15,15,[16]	X,Y	10,11,12
	[19],[21],24,24	10,10,[11],[12]	7,[10],12		[6],8,8,[9.3]	8,8,[11]
	14,17	10				

BGT726 — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,[16,18.3]	17,19,21,25	11,[14]	[15],17,[18]	7,[11],12	
	11,11	[11],13,15	14,15	15,19	[9],11,[12],13	[11],12,13
	15,16	12,14,[15.2]	28,29,[31]	15,[16]	X,[Y]	10,[11],12
	24,24			18,20	8,8	8,[11]
	14,17	[10]			[2]	

BN22AQ — Identifiler® Plus (STRmix)

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e		17,19,21,25		15,17,18	7,12	
	11	11,13,15			9,11,13	12,13
	15,16	12,14,15.2	28,29,31		X	10,12
	24				6,8,9.3	8,11
	14,17					

BPH4LJ — GlobalFiler™

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14	21,[25]	11,[14]	[15],17,[18]	7,[11],12	
	11,11	13,15	14,15,[17]	15,19	11,13	12,13
	15,16	12,14,[15.2]	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	No Results			2	

TABLE 1

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

Item 4e - STR Results

CGAMUD   PowerPlex® Fusion 5C

12,14	[19],21,25	11	17	7,12	
11	[11],13,15	14,15	15,19,[19.3]	11,13	[11],12,13
15,16	12,14,[15.2]	28,29	15	X,[Y]	10,12
24	10	7,12		8,[9.3]	8
14,17					

4e

CKT76E   Investigator® 24plex (STRmix)

12,14,16,18.3	17,19,21,25	11,14	15,17,18	7,11,12	
10,11	11,13,15	14,15,17	15,18,19,19.3	9,11,12,13	11,12,13
15,16,17	12,14,15.2	28,29,31	15,16	X,Y	10,11,12
19,21,24			18,20,26.2	6,8,9.3	8,11
14,17	10				

4e

CKVWBW   Investigator® 24plex QS (STRmix)

11,12,13,14,16	17,19,21,25	10,11	16,17	7,11,12	
10,11	12,13,14,15	13,14,15,17	14,15,18,19,19.3	11,12,13	11,12,13
14,15,16	11,12,13,14	27,28,29	14,15,16	X	10,11,12
19,23,24			17,18,19,20,26.2	6,7,8	8,11
13,14,16,17	10				

4e

CN4RME   GlobalFiler™

12,14,[16]	[17],[19],21,25	11,11	[15],17,17,[18]	7,[11],12	
11,11	[11],13,15	14,15,[17]	15,19	11,13	12,13
15,16	12,14,[15.2]	28,29	15,15	X,X,[Y]	10,12
[21],24,24			18,20,[26.2]	8,8	8,8
14,17					

4e

CTQYBM   PowerPlex® Fusion 6C

12,14,[16],[18.3]	[17],[19],21,25	11,11,[14]	[15],17,17,[18]	7,12	
11,11	[11],13,15	14,15,[17]	15,19,[19.3]	[9],11,13	[11],12,13
15,16,[17]	12,14,[15.2]	28,29,[31]	15,15	X,X	10,12
[19],[21],24,24	10,10,[12]	7,[10],12	18,20,[26.2]	[6],8,8,[9.3]	8,8,[11]
14,17	[10]	[16]	[17]		

4e

CXCJUN   GlobalFiler™

12,14,[16]	21,25	11,[14]	[15],17,[18]	7,[11],12	
11	13,15	14,15	15,19	[9],11,13	12,13
15,16	12,14	28,29	15	X,[Y]	10,12
24			18,20,[26.2]	8	8,[11]
14,17	NR			[2]	

4e

CXWZAQ   Identifiler® Plus

	21,25		17	7,12	
11	13,15			11,13	12,13
15,16	12,14	28,29		X,X	10,12
24				8	8
14,17					

4e

TABLE 1

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

Item 4e - STR Results

CZ2XC7 PowerPlex® Fusion 5C

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
12,14	[19],21,25	11,11	17,17	7,12	
11,11	[11],13,15	14,15	15,19,[19.3]	[9],11,13	12,13
15,16	12,14,[15.2]	28,29	15,15	X,X	10,12
[19],24	10,[12]	7,12		8,8	8,8
14,17	No Results				

DBG36N Identifiler® Plus

	21,25		17	7,12	
11	13,15			11,13	12,13
15,16	12,14	28,29		X,X	10,12
24				8	8
14,17					

DG2N7Z GlobalFiler™

12,14,[16,18.3]	[19],21,25	11,[14]	[15],17	7,12	
11	[11],13,15	14,15	15,19,[19.3]	[9],11,13	[11],12,13
15,16	12,14	28,29	15	X	10,[11],12
[19,21],24			18,20	8	8
14,17	/			[2]	

DGU88U Investigator® 24plex QS (STRMix)

12,14	20,21,25	10,11	16,17	7,12	
10,11	13,15	13,14,15	15,19	11,12,13	11,12,13
15,16	12,14	27,28,29	14,15,16	X	10,11,12
23,24			18,19,20	8	8
14,16,17					

DLZCUG GlobalFiler™

12,14	21,25	11,11	17,17	7,[11],12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24			18,20	8,8	8,8
14,17	Not Detected			2	

E3NEDW GlobalFiler™

12,14,16,18.3	21,25	11	17	7,11,12	
11	13,15	14,15,17	15,19,19.3	11,13	11,12,13
15,16	12,14	28,29	15	X,Y	10,12
19,24			18,20	8	8
14,17					

E4LRY4 Investigator® 24plex (STRmix)

12,14,16,18.3	17,19,21,25	10,11,14	16,17	7,11,12	
10,11	11,12,13,14,15	13,14,15	14,15,18,19,19.3	10,11,12,13	11,12,13
14,15,16,17	11,12,13,14	27,28,29	14,15,16	X	9,10,11,12
19,21,24			17,18,19,20	7,8,9.3	7,8
13,14,16,17	10				

TABLE 1

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

Item 4e - STR Results

EJM9CB PowerPlex® Fusion 6C

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14	[19],21,25	11,11	[15],17,[18]	7,[11],12	
	11,11	[11],13,15	14,15,[17]	15,19	11,[12],13	[11],12,13
	15,16	12,14	28,29	15,15	X,X	10,[11],12
	24,24	10,[12]	7,[10],12	18,20	8,8	8,8
	14,17	No Results	No Results	No Results		

F23W4G PowerPlex® ESX 17

Item						
4e	12,14	21,25	11	17		
		13,15	14,15	15,19		12,13
	15,16	12,14	28,29	15	X	
	24			18,20	8	
	14,17					

F46X4E GlobalFiler™

Item						
4e	12,14,(16,18.3)	(17,19),21,25	11,(14)	(15),17,(18)	7,(11),12	
	11	(11),13,15	14,15,(17)	15,19	(9),11,(12),13	(11),12,13
	15,16,(17)	12,14,(15.2)	28,29,(31)	15,(16)	X,(Y)	10,(11),12
	(19),24			18,20	(6),8,(9.3)	8,(11)
	14,17				(2)	

F6ZLH4 PowerPlex® Fusion 6C

Item						
4e	12,14,[16]	21,25	11,11	17,[18]	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16,[17]	12,14	28,29	15,[16]	X,X	10,12
	24,24	10,10	7,[10],12	18,20,[26.2]	8,8	8,[11]
	14,17	No Results	No Results	No Results		

FL99CQ PowerPlex® Fusion 5C

Item						
4e	12,14	21,25	11,11	17,17	7,12	
	11,11	[11],13,15	14,15	15,19	11,13	12,13
	15,16,[17]	12,14,[15.2]	28,29	15,15	X,X	10,12
	[21],24	10,10	7,12		8,8	8,8
	14,17	No Results				

FPYYN3 Investigator® 24plex QS (STRmix)

Item						
4e	11,12,13,14,18.3	20,21,24,25	10,11	15,16,17	6,7,11,12	
	10,11	11,12,13,14,15	13,14,15,17	14,15,18,19,19.3	9,10,11,12,13	11,12,13
	14,15,16,17	11,12,13,14,15.2	27,28,29,31	14,15,16	X,X	9,10,11,12
	19,23,24,25			17,18,19,20,26.2	6,8,9.3	7,8
	13,14,16,17	-				

FQF3ME PowerPlex® Fusion 6C

Item						
4e	12,14	[17],21,25	11,[14]	[15],17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,10	7,12	18,20	8,8	8,8
	14,17	No Results	No Results	No Results		

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 4e - STR Results

FW9XVD — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14	21,25	11,11	17,17	7,12	
4e	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17	N.D.			N.D.	

FZBYVB — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14,[16]	[17,19],21,25	11,[14]	[15],17,[18]	7,[11],12	
4e	11	[11],13,15	14,15,[17]	15,19,[19.3]	[9],11,13,[14]	[11],12,13
	15,16,[17]	12,14,[15.2]	28,29,[31]	15,[16]	X,[Y]	10,[11],12
	[19,21],24			18,20,[26.2]	[6],8,[9.3]	8
	14,17	No Result			[2]	

GBWPJT — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14,18.3	17,21,25	11	15,17	7,11,12	
4e	11	11,13,15	14,15,17	15,19	9,11,12,13	11,12,13
	15,16	12,14	28,29	15	X	10,12
	21,24			18,20,26.2	8,9.3	8
	14,17	10				

GETGP6 — Investigator® 24plex (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	11,12,13,14,18.3	17,19,21,25	10,11,14	15,16,17,18	6,7,11,12	
4e	10,11	11,12,13,14,15	13,14,15,17	14,15,18,19	9,10,11,12,13	11,12,13
	14,15,16,17	11,12,13,14,15.2	27,28,29,31	14,15,16	X	9,10,11,12
	19,21,24			17,18,19,20	7,8,9.3	7,8,11
	13,14,16,17	10				

HA6WR9 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14,[16]	21,25	11	17	7,[11],12	
4e	11	13,15	14,15	15,19	11,[12],13	[11],12,13
	15,16	12,14	28,29	15,[16]	X,[Y]	10,12
	24			18,20,[26.2]	8,[9.3]	8
	14,17	10			2	

HB2GE9 — PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14,[16]	[17],[19],21,25	11,[14]	17,17	7,12	Not Tested
4e	11,11	[11],13,15	14,15	15,19,[19.3]	[9],11,13	[11],12,13
	15,16,[17]	12,14,[15.2]	28,29,[31]	15,15	X,[Y]	10,12
	[19],[21],24	10,[12]	7,12	Not Tested	[6],8,[9.3]	8,8
	14,17	10	Not Tested	Not Tested	Not Tested	

HFH6MQ — Investigator® 24plex (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	11,12,13,14,16	19,20,21,24,25	10,11	15,16,17	7,11,12	N/A
4e	10,11	11,12,13,14,15	13,14,15,17	14,15,18,19	10,11,12,13	11,12,13
	14,15,16	11,12,13,14,15.2	27,28,29	14,15,16	X	9,10,11,12
	23,24	N/A	N/A	17,18,19,20	8	8
	13,14,16,17	No Result	N/A	N/A	N/A	

TABLE 1

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

Item 4e - STR Results

HG79M7   PowerPlex® Fusion

4e					
12,14	21,25	11	17	7,[11],12	
11	[11],13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15	X,[Y]	10,12
[19],24	10	7,[10],12		[6],8	8
14,17					

HZPENM   GlobalFiler™

4e					
12,14,[16],[18.3]	[17],[19],21,25	11,[--]	[15],17,[18]	7,[11],12	
11,[--]	[11],13,15	14,15,[17]	15,19,[19.3],[--]	[9],11,[12],13	[11],12,13
15,16,[17]	12,14,[--]	28,29,[31]	15,[16]	X,[Y]	10,[11],12
[19],[21],24			18,20,[26.2]	[6],8,[9.3]	8,[11]
14,17	[10]			[2]	

J6BGKD   PowerPlex® Fusion

4e					
12,14,18.3	17,19,21,25	11,14	15,17,18	7,12	
11	11,13,15	14,15	15,19,19.3	9,11,12,13	11,12,13
15,16,17	12,14	28,29,31	15	X,Y	10,11,12
19,21,24	10,12	7,12		6,8,9.3	8,11
14,17	NR				

JNN2GG   GlobalFiler™

4e					
12,14,[16]	[17],[19],21,25	11,[14]	[15],17,[18]	7,[11],12	NT
11	13,15	14,15,[17]	15,19,[19.3]	11,13	[11],12,13
15,16,[17]	12,14,[15.2]	28,29,[31]	15,[16]	X,[Y]	10,[11],12
[19],[21],24	NT	NT	18,20,[26.2]	8,[9.3]	8,[11]
14,17	[10]	NT	NT	[2]	

JP2XCR   GlobalFiler™ (STRmix)

4e					
12,14,16,18.3	17,19,21,25	11,14	15,17	7,11,12	
11	13,15	14,15,17	15,19,19.3	9,11,13	11,12,13
15,16,17	12,14,15.2	28,29,31	15,16	X,Y	10,11,12
19,21,24			18,20,26.2	6,8,9.3	8,11
14,17	10			2	

JTMK6F   PowerPlex® Fusion 6C

4e					
12,14	21,25	11,14	17	7,11,12	
11	13,15	14,15	15,19	11,13	11,12,13
15,16	12,14,15.2	28,29	15	X,Y	10,12
24	10	7,12	18,20	8	8,11
14,17	NR	NR	NR		

JZM46P   GlobalFiler™

4e					
12,14,16,18.3	19,21,25	11	15,17	7,11,12	
10,11	13,15	14,15	15,19,19.3	9,11,13	12,13
15,16,17	12,14	28,29,31	15	X,Y	10,11,12
19,24			18,20,26.2	8	8
14,17	10				

TABLE 1

WebCode / Item	Amplification Kits (Probabilistic Genotyping Software)				
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

Item 4e - STR Results

KBB2H3 — GlobalFiler™ (Item 4e)

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
12,14,[18.3]	[17],[19],21,25	11,[14]	[15],17,[18]	7,[11],12	
11	[11],13,15	14,15,[17]	15,19	[9],11,13	[11],12,13
15,16	12,14	28,29	15	X,[Y]	10,[11],12
[21],24			18,20	8	8
14,17				[2]	

KEC2KK — PowerPlex® Fusion (Item 4e)

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
12,14,[18.3]	[17],[19],21,25	11,[14]	[15],17,[18]	7,[11],12	
11	13,15	14,15,[17]	15,19,[19.3]	[9],11,[12],13	[11],12,13
15,16,[17]	12,14,[15.2]	28,29,[31]	15	X,[Y]	10,[11],12
[19],[21],24	10	7,[10],12		[6],8,[9.3]	8,[11]
14,17	[10]				

KRL8YY — Investigator® 24plex (STRmix V. 2.4.06) (Item 4e)

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
11,12,13,14	19,20,21,24,25	10,11	15,16,17,18	7,11,12	
10,11	12,13,14,15	13,14,15	14,15,18,19	9,10,11,12,13	11,12,13
14,15,16,17	11,12,13,14,15.2	27,28,29,31	14,15,16	X	10,11,12
23,24			17,18,19,20,26.2	8	8
13,14,16,17	10				

KU2EQZ — GlobalFiler™ (Item 4e)

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
12,14,[18.3]	[17],[19],21,25	11,11	[15],17	7,12	
11,11	[11],13,15	14,15,[17]	15,19,[19.3]	11,13	12,13
15,16	12,14	28,29	15,15	X,[Y]	10,12
[21],24			18,20,[26.2]	[6],8,[9.3]	8,[11]
14,17	No Results			2	

L67737 — Investigator® 24plex (STRmix V2.4.06) (Item 4e)

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
11,12,13,14	21,24,25	10,11	15,16,17	7,11,12	
10,11	12,13,14,15	13,14,15	14,15,18,19	11,12,13	11,12,13
14,15,16	12,13,14	27,28,29	14,15,16	X,X	10,11,12
23,24			17,18,19,20	8,9.3	8
13,14,16,17					

L679QP — Investigator® 24plex QS (Item 4e)

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
12,14,16,18.3	17,19,21,25	11,14	15,17,18	7,11,12	
10,11	11,13,15	14,15,17	15,19,19.3	9,11,12,13	11,12,13
15,16,17	12,14,15.2	28,29,31	15,16	X,Y	10,11,12
19,21,24			18,20,26.2	6,8,9.3	8,11
14,17	10				

L8W89U — Investigator® 24plex (STRmix) (Item 4e)

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
11,12,13,14,16	17,20,21,24,25	10,11	15,16,17,18	7,11,12	
10,11	11,12,13,14,15	13,14,15	14,15,18,19	10,11,12,13	11,12,13
14,15,16,17	11,12,13,14,15.2	27,28,29	14,15,16	X	9,10,11,12
19,21,24			17,18,19,20	7,8	7,8
13,14,16,17	10				

TABLE 1

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

Item 4e - STR Results

LBWJ6U Investigator® 24plex (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	11,12,13,14	19,20,21,24,25	10,11,12	16,17	7,11,12	
	10,11	11,12,13,14,15	13,14,15	14,15,18,19,19.3	10,11,12,13	11,12,13
	14,15,16	11,12,13,14	27,28,29	14,15,16	X,X	9,10,11,12
	23,24			17,18,19,20	8	8
	13,14,16,17					

LFPK4M GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,16	17,19,21,25	11	17	7,11,12	
	10,11	13,15	14,15,17	15,19	9,11,12,13	11,12,13
	15,16,17	12,14	28,29	15,16	X,Y	10,11,12
	24			18,20	8	8
	14,17				2	

LGJ9MH GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,[-]	[17],[19],21,25	11,[14]	[15],17,[-]	7,[11],12	
	11,[-]	[11],13,15	14,15,[-]	15,19,[-]	11,13,[-]	[11],12,13
	15,16,[-]	12,14,[15.2]	28,29,[-]	15,[-]	X,[Y]	10,[11],12
	24,[-]			18,20,[-]	[6],8,[9.3]	8,[-]
	14,17	[-]			[-]	

LLUUBB PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,[16],[18.3]	[17],[19],21,25	11	[15],17,[18]	7,[11],12	
	11	[11],13,15	14,15	15,19,[19.3]	[9],11,[12],13	[11],12,13
	15,16,[17]	12,14,[15.2]	28,29,[31]	15	X,[Y]	10,[11],12
	[19],[21],24	10,[11],[12]	7,12		[6],8,[9.3]	8,[11]
	14,17	NR				

LP7289 GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14	21,25	11	17	7,12	
	11	[11],13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,[16]	X	10,12
	24			18,20	8	8
	14,17					

LQ2PLX GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,[18.3]	[17],[19],21,25	11,11	[15],17,[18]	7,12	
	11,11	[11],13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29,[31]	15,15	X,[Y]	10,12
	24,24			18,20,[26.2]	8,8	8,[11]
	14,17	10			No Results	

LVFVRK PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14	17,21,25	11	17,18	7,12	
	11	11,13,15	14,15	15,19,19.3	11,12,13	11,12,13
	15,16	12,14	28,29	15	X	10,11,12
	24	10	7,12		6,8	8
	14,17	10				

TABLE 1

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

Item 4e - STR Results

M7Z2G2 — Investigator® 24plex

Item						
4e	12,14	21,25	11	17	7,12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	24			18,20	8	8
	14,17	10				

M99733 — Investigator® 24plex (STRmix)

Item						
4e	11,12,13,14	19,20,21,24,25	10,11	15,16,17	7,11,12	
	10,11	11,12,13,14,15	13,14,15	15,18,19,19.3	11,12,13	11,12,13
	14,15,16	12,13,14	27,28,29	14,15,16	X,X	10,11,12
	23,24			17,18,19,20,26.2	8	8,11
	13,14,16,17					

MDTW2D — GlobalFiler™

Item						
4e	12,14,[16]	[19],21,25	11,[14]	17,[18]	7,[11],12	
	11	13,15	14,15	15,19	[9],11,[12],13	12,13
	15,16,[17]	12,14,[15.2]	28,29,[31]	15	X,[Y]	10,[11],12
	[21],24			18,20	8	8
	14,17	[10]			[2]	

MJ8YCU — Investigator® 24plex (STRmix)

Item						
4e	12,14	21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,8
	14,17					

MNNCH2 — Investigator® 24plex

Item						
4e	12,14,[16],[18.3]	[17],[19],21,25	11,[14]	[15],17,[18]	7,[11],12	
	11,11	[11],13,15	14,15,[17]	15,[18],19,[19.3]	[9],11,[12],13	[11],12,13
	15,16,[17]	12,14,[15.2]	28,29,[31]	15,[16]	X,[Y]	10,[11],12
	[19],[21],24			18,20,[26.2]	[6],8,[9.3]	8,[11]
	14,17	10				

MYVUFY — GlobalFiler™

Item						
4e	12,14	[17],[19],21,25	11,11	17,17	7,[11],12	
	11,11	[11],13,15	14,15	15,19	[9],11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	[6],8,[9.3]	8,8
	14,17	No Results			2	

N2K7XA — PowerPlex® Fusion 6C

Item						
4e	12,14,18.3	17,19,21,25	11,14	17	7,12	
	11	11,13,15	14,15	15,19	11,13	12,13
	15,16	12,14,15.2	28,29	15	X,Y	10,12
	19,21,24	10,12	7,10,12	18,20,26.2	8	8,11
	14,17	NR	16	NR		

TABLE 1

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

Item 4e - STR Results

N9496C   Identifiler® ID+ (STRMIX)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e		17,19,21,25		15,17	7,12	
	11	11,13,15			9,11,13	12,13
	15,16	12,14,15.2	28,29,31		X,Y	10,12
	19,21,24				6,8,9.3	8,11
	14,17					

NG67KU   Investigator® 24plex

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,[16],[18.3]	[19],21,25	11,[14]	[15],17,[18]	7,12	
	11,11	[11],13,15	14,15	15,19	[9],11,[12],13	12,13
	15,16	12,14,[15.2]	28,29,[31]	15,15	X,[Y]	10,[11],12
	24,24			18,20,[26.2]	[6],8	8,[11]
	14,17	10				

NMMR3M   GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,[16],[18.3]	[17],[19],21,25	11	[15],17	7,[11],12	
	11	[11],13,15	14,15,[17]	15,19,[19.3]	[9],11,13	12,13
	15,16	12,14	28,29	15	X,[Y]	10,12
	24			18,20	[6],8	8,[11]
	14,17				[2]	

NZ4HC4   PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14	21,25	11	17	7,11,12	
	11	11,13,15	14,15	15,19,19.3	11,13	11,12,13
	15,16	12,14,15.2	28,29	15	X,Y	10,11,12
	24	10	7,12		8	8
	14,17					

P39WML   GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,16	17,19,21,25	11,14	17	7,12	
	11	13,15	14,15,17	15,19	11,13	12,13
	15,16	12,14	28,29,31	15	X	10,12
	19,21,24			18,20,26.2	6,8	8
	14,17				2	

P3MWEJ   PowerPlex® Fusion, GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,[18.3]	[17],[19],21,25	11,[14]	17,17	7,12	
	11,11	[11],13,15	14,15,[17]	15,19	11,[12],13	12,13
	15,16,[17]	12,14,[15.2]	28,29,[31]	15,15	X,Y	10,[11],12
	[19],[21],24	10,[11],[12]	7,12	18,20	[6],8	8,8
	14,17	10			No Results	

P43K4V   Investigator® 24plex (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,16,18.3	17,20,21,24,25	10,11	15,16,17,18	7,11,12	
	10,11	12,13,14,15	13,14,15,17	14,15,18,19	10,11,12,13	11,12,13
	14,15,16,17	11,12,13,14	27,28,29	14,15,16	X,Y	9,10,11,12
	21,23,24			17,18,19,20	7,8,9.3	7,8
	13,14,16,17	10				

TABLE 1

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

Item 4e - STR Results

P9N9AF — PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14	[19],21,25	11,[14]	[15],17	7,12	
	11	[11],13,15	14,15	15,19,[19.3]	11,[12],13	[11],12,13
	15,16,[17]	12,14	28,29	15	X	10,[11],12
	[19],24	10,[11]	7,12		[6],8,[9.3]	8
	14,17	[10]				

PK297A — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,[16]	[19],21,25	11,[14]	[15],17,[18]	7,[11],12	
	11	[11],13,15	14,15,[17]	15,19,[19.3]	[9],11,[12],13	12,13
	15,16,[17]	12,14	28,29,[31]	15	X,[Y]	10,[11],12
	24			18,20	8	8
	14,17	[10]			[2]	

PLU7EF — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,16,17,18.3	17,19,20,21,25	11,14	15,17,18	7,9,11,12,13	
	10,11,12	11,13,15	14,15,17	15,18,19,19.3	9,11,12,13	11,12,13
	15,16,17	12,14,15.2	28,29,30,31	15,16	X,Y	10,11,12
	19,21,22,24			18,20,26.2	6,8,9.3	8,11
	14,17	10			2	

PNX2VX — Investigator® 24plex QS

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,[16],[18.3]	[19],21,25	11,11	17,17	7,12	Not Tested
	11,11	[11],13,15	14,15,[17]	15,19	[9],11,[12],13	12,13
	15,16	12,14	28,29	15,15	X,[Y]	10,[11],12
	[21],24	Not Tested	Not Tested	18,20,[26.2]	[6],8	8,[11]
	14,17	10	Not Tested	Not Tested	Not Tested	

PPYPJ3 — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,[16]	[17,19],21,25	11,[14]	[15],17,[18]	7,[11],12	
	11	[11],13,15	14,15,[17]	15,19,[19.3]	[9],11,[12],13	[11],12,13
	15,16,[17]	12,14	28,29,[31]	15	X,[Y]	10,[11],12
	[19,21],24			18,20,[26.2]	[6],8,[9.3]	8
	14,17	[10]			[2]	

PYNKFX — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,[16]	21,25	11,[14]	17	7,[11],12	
	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14,[15.2]	28,29	15	X,X	10,[11],12
	[21],24			18,20	8,[9.3]	8
	14,17					

PZWWXY — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4e	12,14,[16],[18.3]	[19],21,25	11,[14]	[15],17,[18]	7,[11],12	
	11	[11],13,15	14,15,[17]	15,19,[19.3]	[9],11,[12],13	[11],12,13
	15,16,[17]	12,14,[15.2]	28,29,[31]	15	X,[Y]	10,12
	[19],[21],24			18,20,[26.2]	[6],8,[9.3]	8
	14,17	10			2	

TABLE 1

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

Item 4e - STR Results

Q6RDCJ GlobalFiler™ (STRmix)

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
12,14,[16],[18.3]	[17],[19],21,25	11	[15],17	7,11,12	
11	[11],13,15	14,15,[17]	15,19	[9],11,13	12,13
15,16,17	12,14,[15.2]	28,29,[31]	15,16	X,[Y]	10,11,12
[19],[21],24			18,20,[26.2]	[6],8,[9.3]	8,[11]
14,17	[10]			[2]	

QAYCGC

12,14	17,19,21,25	11,14	15,17,18	7,11,12	
11,11	11,13,15	14,15,17	15,19,19.3	9,11,12,13	11,12,13
15,16	12,14,15.2	28,29	15,16	X,Y	10,11,12
19,21,24			18,20	6,8,9.3	8
14,17	10			NR	

QJ2R6W GlobalFiler™

12,14,[16],[18.3]	[19],21,25	11	[15],17,[18]	7,[11],12	
11	13,15	14,15	15,[18],19	[9],11,[12],13	[11],12,13
15,16	12,14	28,29,[31]	15	X,[Y]	10,[11],12
[19],24			18,20	8	8
14,17				2	

QKUPD3 PowerPlex® 5C

12,14,[16],[18.3]	[17],[19],21,25	11,[14]	[15],17,[18]	7,[11],12	
11,11	[11],13,15	14,15,[17]	15,19,[19.3]	[9],11,[12],13	[11],12,13
15,16,[17]	12,14,[15.2]	28,29	15,15	X,[Y]	10,[11],12
[19],[21],24	10,[11],[12]	7,[10],12		[6],8,[9.3]	8,[11]
14,17	10				

QLTQLF PowerPlex® Fusion 5C

12,14,[16],[18.3]	[17],[19],21,25	11,[14]	17,17	7,12	
11,11	13,15	14,15	15,19,[19.3]	[9],11,13	12,13
15,16,[17]	12,14,[15.2]	28,29,[31]	15,15	X,[Y]	10,12
[21],24	10,[12]	7,[10],12		8,[9.3]	8,8
14,17	No Results				

R2QN9G Investigator® 24plex QS

12,14	[19],21,25	11,[14]	[15],17	7,12	
11	13,15	14,15	15,18,19,19.3	11,13	11,12,13
15,16	12,14	28,29	15,16	X	10,11,12
[19],24			18,20	8	8
14,17					

R7RF9T GlobalFiler™

12,14,[16],[18.3]	[17],[19],21,25	11,[14]	[15],17	7,12	
11,11	[11],13,15	14,15	15,19	[9],11,13	12,13
15,16,[17]	12,14,[15.2]	28,29,[31]	15,15	X,[Y]	10,[11],12
[19],[21],24			18,20,[26.2]	[6],8,[9.3]	8,[11]
14,17	No Results			2	

TABLE 1

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

Item 4e - STR Results

R7WVLU — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	21,25	11	17	7,[11],12	
11	13,15	14,15	15,19	11,13	[11],12,13
15,16	12,14	28,29	15	X,X	10,[11],12
[21],24			18,20	8	8
14,17					

RDGW28 — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14,16	17,19,21,25	11,14	15,17	7,11,12	
11	11,13,15	14,15,17	15,19,19.3	9,11,12,13	12,13
15,16,17	12,14	28,29,31	15	X	10,12
21,24	10	7,10,12	18,20	6,8	8,11
14,17	10				

RN4HFM — Investigator® 24plex (STRMix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,13,14,18.3	17,19,21,25	10,11,14	15,16,17,18	7,11,12	
10,11	11,12,13,14,15	13,14,15,16,17	15,18,19,19.3	9,10,11,12,13	11,12,13
14,15,16,17	11,12,13,14,15.2	27,28,29,31	14,15,16	X,Y	10,11,12
23,24			17,18,19,20,26.2	6,7,8	8,11
13,14,17	10				

RND4G3 — PowerPlex® Fusion 5C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	[17],[19],21,25	11,11	17,[18]	7,[11],12	
11,11	13,15	14,15,[17]	15,19	[9],11,13	[11],12,13
15,16,[17]	12,14,[15.2]	28,29,[31]	15,15	X,X	10,[11],12
[19],[21],24	10,[11],[12]	7,12		[6],8,[9.3]	8,[11]
14,17	No Results				

RNGG97 — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14,[16],[18.3]	[17],[19],21,25	11,[14]	[15],17,[18]	7,[11],12	
11	[11],13,15	14,15	15,19,[19.3]	[9],11,[12],13	[11],12,13
15,16,[17]	12,14,[15.2]	28,29	15	X,[Y]	10,[11],12
[19],[21],24	10,[11],[12]	7,12		[6],8	8,[11]
14,17	[10]				

RYVGY8 — GlobalFiler™ (TrueAllele)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14	19,21,25	11	17	7,12	
11	13,15	14,15	15,19	11,13	12,13
15,16,17	12,14	28,29	15	X	10,12
24			18,20	8	8
14,17					

T7UK6G — Identifiler® Plus

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,19,21,25		15,17,18	7,11,12	
10,11	11,13,15			9,11,12,13	11,12,13
15,16,17	12,14,15.2	28,29,31		X,Y	10,11,12
19,21,24				6,8,9.3	8,11
14,17					

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 4e - STR Results

T9LU2H — GlobalFiler™ (STRmix) — 4e

D1S1656 / etc.					
12,14,16,18.3	17,19,21,25	11,14	15,17,18	7,11,12	
11	11,13,15	14,15,17	15,19	9,11,12,13	11,12,13
15,16,17	12,14,15.2	28,29,31	15,16	X,Y	10,11,12
19,21,24			18,20,26.2	6,8,9.3	8,11
14,17	10			2	

TANM6B — PowerPlex® Fusion 6C — 4e

12,14	21,25	11,11	17,17	7,12	
11,11	13,15	14,15	15,19	11,13	12,13
15,16	12,14	28,29	15,15	X,X	10,12
24,24	10,10	7,12	18,20	8,8	8,8
14,17					

THM6L9 — Identifiler® Plus — 4e

	21,25		17,17	7,12	
11,11	13,15			11,13	12,13
15,16	12,14	28,29		X,X	10,12
24,24				8,8	8,8
14,17					

TPEJ2L — Investigator® 24plex (STRmix) — 4e

11,12,13,14	20,21,24,25	10,11	16,17	7,11,12	
10,11	12,13,14,15	13,14,15	14,15,18,19,19.3	11,12,13	11,12,13
14,15,16	11,12,13,14	27,28,29	14,15,16	X,X	10,11,12
23,24			17,18,19,20	8	8
13,14,16,17					

TTPUPA — PowerPlex® Fusion — 4e

12,14	17,21,25	11,11,[14]	17,17	7,11,12	
[10],11,11	11,13,15	14,15,[17]	15,19,19.3	11,13	11,12,13
15,16,17	12,14,[15.2]	28,29,31	15,15,[16]	X,X	10,11,12
[19,21],24,24	10,10	7,10,12		[6],8,8	8,8
14,17					

U43PGN — GlobalFiler™ — 4e

12,14,[16]	[17],[19],21,25	11,[14]	[15],17	7,[11],12	
11	[11],13,15	14,15,[17]	15,19	11,13	[11],12,13
15,16	12,14,[15.2]	28,29,[31]	15,[16]	X,[Y]	10,[11],12
[19],[21],24			18,20,[26.2]	8,[9.3]	8
14,17	[10]			[2]	

U9C3Z8 — Identifiler® Plus — 4e

	21,25		17	7,12	
11	13,15			11,13	12,13
15,16	12,14	28,29		X,X	10,12
24				8	8
14,17					

TABLE 1

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

Item 4e - STR Results

UARTD4 — PowerPlex® Fusion 6C

4e	12,14,16,18.3	17,19,21,25	11,14	15,17	7,11,12	
	11	11,13,15	14,15,17	15,19,19.3	9,11,13	11,12,13
	15,16,17	12,14,15.2	28,29,31	15	X,Y	10,12
	19,21,24	10,12	7,10,12	18,20,26.2	6,8,9.3	8,11
	14,17	10	16	17		

UFJX9T — Investigator® 24plex (STRMIX)

4e	11,12,13,14,18.3	19,20,21,24,25	10,11,12,14	16,17,18	7,11,12	
	10,11	11,12,13,14,15	13,14,15	14,15,18,19,19.3	10,11,12,13	11,12,13
	14,15,16	11,12,13,14	27,28,29,31	14,15,16	X	9,10,11,12
	19,23,24,25			17,18,19,20,26.2	6,7,8	7,8,11
	13,14,16,17	10				

UG3REM — Investigator® 24plex

4e	12,14,[16]	[19],21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	[9],11,13	12,13
	15,16,[17]	12,14	28,29	15,15	X,X	10,12
	24,24			18,20	8,8	8,[11]
	14,17	No Results				

UG86ZX — GlobalFiler™

4e	12,14,[16],[18.3]	[19],21,25	11	[15],17	7,[11],12	
	11	[11],13,15	14,15,[17]	15,19,[19.3]	[9],11,[12],13	[11],12,13
	15,16,[17]	12,14	28,29	15	X,[Y]	10,[11],12
	[19],[21],24			18,20,[26.2]	[6],8,[9.3]	8
	14,17	[10]			[2]	

UK24BM — Investigator® 24plex

4e	12,14	21,25	11,11	17,17	7,12	N/A
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	N/A	N/A	18,20	8,8	8,8
	14,17	10	N/A	N/A	N/A	

UUD36X — GlobalFiler™

4e	12,14	[17],[19],21,25	11,11	[15],17,[18]	7,[11],12	
	11,11	[11],13,15	14,15	15,19	11,13	12,13
	15,16	12,14,[15.2]	28,29	15,15	X,X	10,12
	[19],[21],24			18,20	8,8	8,[11]
	14,17	10			2	

UWJHHV — GlobalFiler™

4e	12,14,[16],[18.3]	[17],[19],21,25	11,[14]	[15],17	7,[11],12	
	11	[11],13,15	14,15,[17]	15,19,[19.3]	[9],11,[12],13	[11],12,13
	15,16	12,14	28,29,[31]	15,[16]	X	10,[11],12
	[19],24			18,20	[6],8	8
	14,17	10			2	

TABLE 1

WebCode	Amplification Kits (Probabilistic Genotyping Software)				
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

Item 4e - STR Results

VMNZGR — GlobalFiler™

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
12,14,[16]	[17],[19],21,25	11,[14]	[15],17	7,[11],12	
11	[11],13,15	14,15,[17]	15,19,[19.3]	11,13	[11],12,13
15,16,[17]	12,14,[15.2]	28,29	15,[16]	X,[Y]	10,[11],12
[19],[21],24			18,20	[6],8	8
14,17				2	

VMYWFC — Investigator® 24plex QS (STRMix)

11,12,13,14	21,24,25	10,11	16,17	7,11,12	
10,11	12,13,14,15	13,14,15	14,15,18,19,19.3	11,12,13	11,12,13
15,16	12,13,14	27,28,29	14,15,16	X,X	10,11,12
23,24			17,18,19,20	8	8
13,14,16,17					

VRJWYR — GlobalFiler™

12,14,[16],[18.3]	[17],21,25	11,[14]	[15],17,[18]	7,[11],12	
11,11	[11],13,15	14,15,[17]	15,19,[19.3]	[9],11,[12],13	[11],12,13
15,16,[17]	12,14,[15.2]	28,29,[31]	15,[16]	X,[Y]	10,[11],12
[19],[21],24			18,20,[26.2]	[6],8,[9.3]	8,[11]
14,17	10			2	

W4DCNT — Investigator® 24plex

12,14	[17],[19],21,25	11,11	[15],17	7,12	
11,11	[11],13,15	14,15	15,19,[19.3]	[9],11,13	12,13
15,16,[17]	12,14	28,29	15,15	X,[Y]	10,12
24,24			18,20,[26.2]	[6],8	8,[11]
14,17	No Results				

WEDXWC — Identifiler®

	[17],[19],21,25		[15],17,[18]	7,12	
11	[11],13,15			[9],11,13	[11],12,13
15,16	12,14,[15.2]	28,29,[31]		X,[Y]	10,[11],12
24				[6],8,[9.3]	8,[11]
14,17					

WGE4AX — GlobalFiler™

12,14,[16,18.3]	[17,19],21,25	11	[15],17	7,[11],12	
11	[11],13,15	14,15	15,19,[19.3]	11,[12],13	[11],12,13
15,16	12,14	28,29,[31]	15,[16]	X,[Y]	10,[11],12
[19,21],24			18,20	8	8
14,17	[10]			[2]	

WQ6K38 — GlobalFiler™

12,14,16,18.3	17,19,21,25	11,14	15,17,18	7,11,12	
11	11,13,15	14,15,17	15,19,19.3	9,11,12,13	12,13
15,16,17	12,14,15.2	28,29,31	15,16	X	10,11,12
19,21,24			18,20,26.2	6,8	8,11
14,17	10			2	

TABLE 1

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

Item 4e - STR Results

WUTNX6	Identifiler® Plus					
		17,19,21,25			17	7,11,12
4e	11	11,13,15			9,11,13	12,13
	15,16,17	12,14,15.2	28,29,31		X,Y	10,12
	19,24				8,9.3	8,11
	14,17					
WZ92CP	GlobalFiler™					
	12,14,[18.3]	21,25	11	17	7,12	
4e	11	[11],13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,[16]	X	10,[11],12
	24			18,20	8	8
	14,17	10				
WZELND	GlobalFiler™ (STRmix)					
	12,14,16,18.3	17,21,25	11,14	15,17	7,11,12	
4e	11	11,13,15	14,15	15,18,19,19.3	9,11,12,13	12,13
	15,16,17	12,14,15.2	28,29,31	15,16	X,Y	10,11,12
	19,21,24			18,20,26.2	8	8
	14,17	10			2	
X24MYN	PowerPlex® Fusion 6C					
	12,14	21,25	11,11	17,17	7,12	
4e	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	24,24	10,[12]	7,12	18,20	8,8	8,8
	14,17	No Results	No Results	No Results		
X72QZE	GlobalFiler™ (STRmix)					
	12,14	21,25	11	17	7,12	
4e	11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,12
	[19],24			18,20	[6],8	8
	14,17				[2]	
X7L8EV	GlobalFiler™					
	12,14	[17],21,25	11,11	17,17	7,[11],12	
4e	[10],11,11	[11],13,15	14,15	15,[18],19	11,13	[11],12,13
	15,16	12,14	28,29	15,15	X,X	10,[11],12
	24,24			18,20	8,8	8,8
	14,17					
X8X796	PowerPlex® Fusion 5C					
	12,14	[17],21,25	11,11	[15],17,17,[18]	7,[11],12	
4e	11,11	[11],13,15	14,15	15,19,[19.3]	[9],11,[12],13	[11],12,13
	15,16	12,14,[15.2]	28,29	15,15,[16]	X,X,[Y]	10,[11],12
	[21],24,24	10,10	7,12		[6],8,8,[9.3]	8,8,[11]
	14,17					

TABLE 1

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

Item 4e - STR Results

XB78YV — Investigator® 24plex

4e	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14,[16],[18.3]	[17],21,25	11,11	17,17	7,12	
	11,11	13,15	14,15	15,19	11,13	12,13
	15,16	12,14	28,29	15,15	X,X	10,12
	[19],24			18,20	8,8	8,[11]
	14,17	10				

XCJRR7 — GlobalFiler™

4e						
	12,14,16	17,19,21,25	11,14	15,17,18	7,11,12	
	10,11	11,13,15	14,15,17	15,19	9,11,12,13	11,12,13
	15,16,17	12,14	28,29,31	15,16	X,Y	10,11,12
	19,21,24			18,20,26.2	6,8,9.3	8
	14,17				2	

XF3Q6Z — PowerPlex® Fusion 6C

4e						
	12,14	21,25	11	15,17	7,11,12	
	11	13,15	14,15	15,19	9,11,12,13	12,13
	15,16	12,14	28,29	15	X,Y	10,12
	24	10	7,10,12	18,20,26.2	8	8
	14,17	16				

XGHFVD — PowerPlex® Fusion

4e						
	12,14,[16,18.3]	[17,19],21,25	11,11,[14]	[15],17,17,[18]	7,11,12	
	[10],11,11	[11],13,15	14,15,[17]	15,[18],19,[19.3]	9,11,12,13	[11],12,13
	15,16,[17]	12,14,[15.2]	28,29,31	15,15,[16]	X,X,[Y]	10,11,12
	[19,21],24,24	10,10,[11,12]	7,[10],12		[6],8,8,[9.3]	8,8,[11]
	14,17					

XVGURV — GlobalFiler™

4e						
	12,14	21,25	11	17	7,[11],12	
	11	13,15	14,15,[17]	15,19	11,13	12,13
	15,16	12,14	28,29	15	X	10,[11],12
	24			18,20	8	8
	14,17				[2]	

XY32GP — Investigator® 24plex (STRmix)

4e						
	11,12,13,14,16	20,21,24,25	10,11	15,16,17	7,11,12	
	10,11	13,14,15	13,14,15	14,15,18,19,19.3	10,11,12,13	11,12,13
	14,15,16	12,13,14,15.2	27,28,29	14,15,16	X	10,11,12
	21,23,24			17,18,19,20	8	8
	13,14,16,17					

YG9QLR — GlobalFiler™

4e						
	12,14,[18.3]	[17,19],21,25	11,[14]	[15],17,[18]	7,[11],12	
	11	[11],13,15	14,15,[17]	15,19,[19.3]	11,[12],13	[11],12,13
	15,16,[17]	12,14,[15.2]	28,29,[31]	15,[16]	X,[Y]	10,[11],12
	[19,21],24			18,20,[26.2]	[6],8,[9.3]	8
	14,17	[10]			[2]	

TABLE 1

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

Item 4e - STR Results

	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
YNP9UT	PowerPlex® Fusion 5C					
	12,14,[16],[18.3]	[19],21,25	11,[14]	17,[18]	7,12	
4e	11,11	[11],13,15	14,15	15,19,[19.3]	11,13	[11],12,13
	15,16,[17]	12,14,[15.2]	28,29,[31]	15,15	X,X	10,[11],12
	[21],24	10,[11]	7,12		[6],8,[9.3]	8,8
	14,17	No Results				
YU3CDM	Investigator® 24plex (STRmix)					
	12,13,14	21,25	10,11	16,17	7,12	
4e	10,11	12,13,14,15	13,14,15	14,15,18,19	11,12,13	12,13
	14,15,16	12,14,15.2	27,28,29	14,15,16	X	10,12
	23,24			17,18,19,20,26.2	8,9.3	8,11
	14,16,17					
YZ47YW	Investigator® 24plex					
	12,14,[16],[18.3]	21,25	11,[14]	[15],17	7,12	Not Tested
4e	11,11	[11],13,15	14,15,[17]	15,19,[19.3]	[9],11,13	[11],12,13
	15,16	12,14,[15.2]	28,29,[31]	15,15	X,[Y]	10,[11],12
	[19],[21],24	Not Tested	Not Tested	18,20	[6],8,[9.3]	8,[11]
	14,17	10	Not Tested	Not Tested	Not Tested	
Z3CZPZ	Identifiler® Plus					
		21,25		17	7,[11],12	
4e	11	13,15			11,[12],13	12,13
	15,16	12,14	28,29		X,X	10,[11],12
	24				8	8
	14,17					
ZLJ2BZ	Identifiler® Plus					
	-	21,25	-	17	7,12	-
4e	11	13,15	-	-	11,13	12,13
	15,16	12,14	28,29	-	X,X	10,12
	24	-	-	-	8	8
	14,17	-	-	-	-	
ZWEE8Q	GlobalFiler™					
	12,14,[16]	[17],21,25	11,[14]	17,[18]	7,[11],12	
4e	11	13,15	14,15,[17]	15,19	11,13	[11],12,13
	15,16	12,14	28,29,[31]	15	X,[Y]	10,[11],12
	[19,21],24			18,20	[6],8	8
	14,17	[10]			[2]	

TABLE 1

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

Item 4sp - STR Results

244J47 GlobalFiler™ (STRmix)

4sp	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
	16,18.3	17,19	11,14	15,18	11	
	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	

2CNFH8 NGM SElect

4sp						
	16,18.3	17,19	11,14	15,18		
		11,13	14,17	18,19.3		11,11
	15,17	14,15.2	29,31	16,16	X,Y	
	19,21			18,26.2	6,9.3	
	17,17					

2DH423 PowerPlex® Fusion

4sp						
	16,18.3	17,19	11,14	15,18	11	
	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21	11,12	10,12		6,9.3	8,11
	17	10				

2J44BN GlobalFiler™

4sp						
	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			2	

2PZLVV PowerPlex® Fusion 5C

4sp						
	16,18.3	17,19	11,14	15,18	11	
	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21	11,12	10,12		6,9.3	8,11
	17	10				

2XAYUQ PowerPlex® Fusion 5C

4sp						
	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12		6,9.3	8,11
	17,17	10				

2XPGTP GlobalFiler™

4sp						
	16,18.3	17,19	11,14	15,18	11	
	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	

TABLE 1

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

Item 4sp - STR Results

2Z4BZW — PowerPlex® Fusion 6C

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	12,14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17	10	16	17		

38YP3A — GlobalFiler™ (STRmix)

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

3DNA44 — PowerPlex® Fusion 6C

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

3P4WGB — Investigator® 24plex (STRmix)

12,14,16,18.3	17,19,21,25	10,11,14	15,17,18	7,11,12	
10,11	10,11,12,13,15	13,14,15,16,17	15,17,18,18.3,19,19.3	9,11,12	11,12
14,15,16,17	12,14,15.2	28,29,30,31	15,16,17	X,Y	10,11,12
19,21,24			17,18,20,25.2,26.2	6,8,9.3	8,11
14,16,17	10				

3ZY8MW — PowerPlex® Fusion 6C

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

4M8Z6M — Investigator® 24plex (STRMIX)

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10				

TABLE 1

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

Item 4sp - STR Results

4P63YJ GlobalFiler™

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

4PACYW GlobalFiler™

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

4QJJZ4 PowerPlex® Fusion 6C, MiniFiler

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

4U3GQE GlobalFiler™

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

4UJPGU PowerPlex® esi-fast, Fusion 6C (EuroForMix)

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

4VF44M GlobalFiler™

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

4YDRGN GlobalFiler™

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,[15],17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			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 4sp - STR Results

6936LK Investigator® 24plex (STRmix)

4sp						
	16,18.3	17,19	11,14	15,18	11,11	N/A
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	N/A	N/A	18,26.2	6,9.3	8,11
	17,17	10	N/A	N/A	N/A	

6BLUHC GlobalFiler™

4sp						
	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			2	

6HKCWN GlobalFiler™

4sp						
	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			2	

6NFFA8 PowerPlex® Fusion

4sp						
	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12		6,9.3	8,11
	17,17	10				

6QEGPP GlobalFiler™

4sp						
	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			2	

6QMVJY PowerPlex® Fusion 5C

4sp						
	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12		6,9.3	8,11
	17,17	10				

6REUXW PowerPlex® 21 (STRmix)

4sp						
	16,18.3	17,19		15,18	11,11	10,15
	10,11	11,13		18,19.3	9,12	11,11
	15,17	14,15.2	29,31		X,Y	11,11
	19,21	11,12	10,12		6,9.3	8,11
	17,17					

TABLE 1

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

Item 4sp - STR Results

6Y2GUN Investigator® 24plex (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	16,18.3	17,19	11,14	15,17,18	11	
	10,11	11,13	14,17	18,19.3	9,11,12	11
	15,16,17	14,15.2	28,29,31	15,16	X,Y	10,11
	19,21			18,26.2	6,9.3	8,11
	17	10				

7AAABM GlobalFiler™

4sp	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			2	

7AGQX8 Investigator® 24plex (STRmix)

4sp	12,14,16,18.3	16,17,18,19	10,11,14	14,15,17,18	7,10,11,12	
	10,11	10,11,12,13,15	13,14,15,16,17	15,18,19,19.3	9,11,12,13	10,11,12
	14,15,16,17	12,14,15.2	28,29,30,31	15,16,17	X,Y	10,11,12
	18,19,20,21,24			17,18,20,25.2,26.2	6,8,9.3	8,11
	14,16,17	10				

7AUMY7 PowerPlex® Fusion

4sp	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12		6,9.3	8,11
	17,17	10				

7QTB2J GlobalFiler™

4sp	16,18.3	17,19	11,14	15,18	[7],11,11	
	10,11	11,13	14,17	[15],18,19.3	9,12	11,11,[12]
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21,[24]			18,26.2	6,9.3	8,11
	17,17	10			2	

7WF39C PowerPlex® Fusion 5C

4sp	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12		6,9.3	8,11
	17,17	10				

7ZNHBV PowerPlex®

4sp	16,18.3	17,19	11,14	15,18		
		11,13	14,17	18,19.3		11
	15,17	14,15.2	29,31	16	X,Y	
	19,21				6,9.3	
	17					

TABLE 1

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

Item 4sp - STR Results

WebCode / 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
82FTNA Investigator® 24plex (STRmix)						
	16,18.3	17,19	11,14	15,18	11,11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10				
8EHLRR PowerPlex® Fusion 6C (Lab Retriever)						
	12,14,16,18.3	17,19	11,14	15,17,18	11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21	11,12	10,12	18,26.2	6,9.3	8,11
	17	10	16	17		
8L4F7C Investigator® 24plex (STRmix)						
	12,14,16,18.3	17,19,21,25	10,11,14	14,15,17,18	7,10,11,12	
4sp	9,10,11	10,11,12,13,15	13,14,15,16,17	15,17,18,19,19.3	9,11,12,13	10,11,12,13
	14,15,16,17	12,13,14,14.2,15.2	28,29,30,31	15,16,17	X,Y	10,11,12
	18,19,20,21,24			17,18,20,25.2,26.2	6,8,9.3	8,10,11
	14,16,17	10				
8Y2YG3 Identifiler® Plus						
		17,19		15,18	11	
4sp	10,11	11,13			9,12	11
	15,17	14,15.2	29,31		X,Y	11
	19,21				6,9.3	8,11
	17					
94RVJY GlobalFiler™						
	16,18.3	17,19	11,14	15,18	11,11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			2	
9DK7TU Identifiler® Plus						
	-	17,19	-	15,18	11	-
4sp	10,11	11,13	-	-	9,12	11
	15,17	14,15.2	29,31	-	X,Y	11
	19,21	-	-	-	6,9.3	8,11
	17	-	-	-	-	
9FB9YH GlobalFiler™						
	16,18.3	17,19	11,14	15,18	11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	

TABLE 1

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

Item 4sp - STR Results

9WRGUR PowerPlex® Fusion 6C

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17	10	16	17		

A3RFHL GlobalFiler™

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

A7CTDN Investigator® 24plex (STRmix)

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

AEBPAL PowerPlex® Fusion

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12		6,9.3	8,11
17	10				

AFRB99 Investigator® 24plex (STRmix)

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

AMBG3U PowerPlex® Fusion 6C

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

ATQRPP GlobalFiler™

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			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 4sp - STR Results

AUUKAX — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

B3XEJF — Investigator® 24plex (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14,16,18.3	17,19	11,14	15,17,18	7,11,12	
10,11	11,13,15	14,15,17	15,18,19,19.3	9,11,12	11,12,13
15,16,17	12,14,15.2	28,29,31	15,16	X,Y	10,11,12
19,21,24			18,26.2	6,8,9.3	8,11
14,17	10				

B3Z4QY — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	7,11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

BAA6GL — PowerPlex® Fusion 6C

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17	10	16	17		

BDGVA2 — PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12		6,9.3	8,11
17,17	10				

BGT726 — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

BN22AQ — Identifiler® Plus (STRmix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	17,19		15,18	11,11	
10,11	11,13			9,12	11,11
15,17	14,15.2	29,31		X,Y	11,11
19,21				6,9.3	8,11
17,17					

TABLE 1

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

Item 4sp - STR Results

BPH4LJ — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,18.3	17,19	11,14	15,18	11,11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			2	

CGAMUD — PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,18.3	17,19	11,14	15,18	11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21	11,12	10,12		6,9.3	8,11
	17	10				

CKT76E — Investigator® 24plex (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,18.3	17,19	11,14	15,18	11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10				

CKVWBW — Investigator® 24plex QS (STRMix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,18.3	17,19	11,14	15,18	11,11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10				

CN4RME — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	[12],16,18.3	17,19	11,14	15,[17],18	11,11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			2	

CTQYBM — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,18.3	17,19	11,14	15,18	11,11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12	18,26.2	6,9.3	8,11
	17,17	10	16	17		

CXCJUN — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,18.3	17,19	11,14	15,18	11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	

TABLE 1

WebCode / 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

Item 4sp - STR Results

CXWZAQ — Identifiler® Plus

	D1S1656/D7S820/D18S51/FGA/vWA	D2S1338/D8S1179/D19S433/PentaD/DYS391	D2S441/D10S1248/D21S11/PentaE/DYS570	D3S1358/D12S391/D22S1045/SE33/DYS576	D5S818/D13S317/Amelogenin/TH01/Y Indel	D6S1043/D16S539/CSF1PO/TPOX
		17,19		15,18	11	
4sp	10,11	11,13			9,12	11
	15,17	14,15.2	29,31		X,Y	11
	19,21				6,9.3	8,11
	17					

CZ2XC7 — PowerPlex® Fusion 5C

	16,18.3	17,19	11,14	15,18	11,11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12		6,9.3	8,11
	17,17	10				

DBG36N — Identifiler® Plus

		17,19		15,18	11	
4sp	10,11	11,13			9,12	11
	15,17	14,15.2	29,31		X,Y	11
	19,21				6,9.3	8,11
	17					

DG2N7Z — GlobalFiler™

	16,18.3	17,19	11,14	15,18	11,11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			2	

DGU88U — Investigator® 24plex QS (STRMix)

	16,18.3	17,19	11,14	15,18	11,11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10				

DLZCUG — GlobalFiler™

	16,18.3	17,19	11,14	15,18	11,11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			2	

E3NEDW — GlobalFiler™

	16,18.3	17,19	11,14	15,18	11	
4sp	10,11	11,13	14,17	15,18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	

TABLE 1

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

Item 4sp - STR Results

E4LRY4 Investigator® 24plex (STRmix)

4sp					
12,14,16,18.3	16,17,18,19	10,11,14	14,15,17,18	7,10,11,12	
9,10,11	10,11,12,13,15	13,14,16,17	17,18,18.3,19,19.3	9,11,12	10,11,12
14,15,16,17	13,14,14.2,15.2	28,29,30,31	15,16,17	X,Y	10,11,12
18,19,20,21,24			17,18,25.2,26.2	6,9.3	8,11
14,16,17	9,10				

EJM9CB PowerPlex® Fusion 6C

4sp					
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

F23W4G PowerPlex® ESX 17

4sp					
16,18.3	17,19	11,14	15,18		
	11,13	14,17	18,19.3		11
15,17	14,15.2	29,31	16	X,Y	
19,21			18,26.2	6,9.3	
17					

F46X4E GlobalFiler™

4sp					
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

F6ZLH4 PowerPlex® Fusion 6C

4sp					
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

FL99CQ PowerPlex® Fusion 5C

4sp					
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12		6,9.3	8,11
17,17	10				

FPYYN3 Investigator® 24plex QS (STRmix)

4sp					
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

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 4sp - STR Results

FQF3ME   PowerPlex® Fusion 6C

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

FW9XVD   GlobalFiler™

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

FZBYVB   GlobalFiler™

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

GBWPJT   GlobalFiler™

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

GETGP6   Investigator® 24plex (STRmix)

12,14,16,18.3	17,19,21	11,14	15,17,18	11,12	
10,11	11,13,15	14,15,17	15,18,19,19.3	9,11,12,13	11,12
15,16,17	12,14,15.2	28,29,31	15,16	X,Y	10,11,12
19,21,24			18,26.2	6,8,9.3	8,11
14,17	10				

HA6WR9   GlobalFiler™

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

HB2GE9   PowerPlex® Fusion 5C

16,18.3	17,19	11,14	15,18	11,11	Not Tested
10,11	11,13,[15]	14,17	18,19.3	9,12	11,[13]
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	Not Tested	6,9.3	8,11
17,17	10	Not Tested	Not Tested	Not Tested	

TABLE 1

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

Item 4sp - STR Results

	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
HFH6MQ	Investigator® 24plex (STRmix)					
	16,18.3	17,19	11,14	15,18	11,11	N/A
4sp	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	N/A	N/A	18,26.2	6,9.3	8,11
	17,17	10	N/A	N/A	N/A	
HG79M7	PowerPlex® Fusion					
	16,18.3	17,19	11,14	15,18	11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21	11,12	10,12		6,9.3	8,11
	17	10				
HZPENM	GlobalFiler™					
	[12],[14],16,18.3	17,19,[21],[25]	11,14	15,17,18	[7],11,[12]	
4sp	10,11	11,13,[15]	14,[15],17	[15],18,[19],19.3	9,[11],12,[13]	11,[12],[13]
	15,[16],17	[12],14,15.2	[28],29,31	[15],16	X,Y	[10],11,[12]
	19,21,[24]			18,[20],26.2	6,8,9.3	8,11
	[14],17	10			2	
J6BGKD	PowerPlex® Fusion					
	16,18.3	17,19	11,14	15,18	11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21	11,12	10,12		6,9.3	8,11
	17	10				
JNN2GG	GlobalFiler™					
	16,18.3	17,19	11,14	15,18	11	NT
4sp	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21	NT	NT	18,26.2	6,9.3	8,11
	17	10	NT	NT	2	
JP2XCR	GlobalFiler™ (STRmix)					
	16,18.3	17,19	11,14	15,18	11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	
JTMK6F	PowerPlex® Fusion 6C					
	16,18.3	17,19	11,14	15,18	11,11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12	18,26.2	6,9.3	8,11
	17,17	10	16	17		

TABLE 1

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

Item 4sp - STR Results

JZM46P GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	7,11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

KBB2H3 GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

KEC2KK PowerPlex® Fusion

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12		6,9.3	8,11
17	10				

KRL8YY Investigator® 24plex (STRmix V. 2.4.06)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

KU2EQZ GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

L67737 Investigator® 24plex (STRmix V2.4.06)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
14,16,18.3	17,19	11,14	15,17,18	11	
10,11	11,13	14,15,17	18,19.3	9,11,12,13	11
15,16,17	14,15.2	28,29,31	15,16	X,Y	10,11
19,21,24			18,26.2	6,8,9.3	8,11
17	10				

L679QP Investigator® 24plex QS

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10				

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 4sp - STR Results

L8W89U — Investigator® 24plex (STRmix) — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
14,15,16,17,17.3,18.3	17,18,19	10,11,14	14,15,17,18	10,11	
9,10,11	10,11,13	13,14,15,16,17	15,17,18,18.3,19,19.3	9,11,12	10,11,12
14,15,16,17	13,14,14.2,15.2	28,29,30,31	15,16,17	X,Y	10,11
18,19,20,21			17,18,25.2,26.2	6,9.3	8,11
16,17	10				

LBWJ6U — Investigator® 24plex (STRmix) — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14,15,16,18.3	17,19,21,25	10,11,13,14	14,15,17,18	7,10,11	
10,11	10,11,12,13	13,14,16,17	15,17,18,18.3,19.3	9,11,12	10,11
14,15,16,17	13,14,14.2,15.2	28,29,30,31	15,16,17	X,Y	10,11,12
19,20,21			17,18,25.2,26.2	6,9.3	8,11
16,17	10				

LFPK4M — GlobalFiler™ — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	15,16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

LGJ9MH — GlobalFiler™ — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
12,14,16,18.3	17,19,21,25	11,14	15,17,18	7,11,12	
10,11	11,13,15	14,15,17	15,18,19,19.3	9,11,12,13	11,12,13
15,16,17	12,14,15.2	28,29,31	15,16	X,Y	10,11,12
19,21,24			18,20,26.2	6,8,9.3	8,11
14,17	10			2	

LLUUBB — PowerPlex® Fusion — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12		6,9.3	8,11
17	10				

LP7289 — GlobalFiler™ — 4sp

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			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 4sp - STR Results

LQ2PLX	GlobalFiler™					
	16,18.3	17,19	11,14	15,18	11,11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			2	
LVFVRK	PowerPlex® Fusion					
	16,18.3	17,19	11,14	15,18	11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21	11,12	10,12		6,9.3	8,11
	17	10				
M7Z2G2	Investigator® 24plex					
	16,18.3	17,19	11,14	15,18	11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10				
M99733	Investigator® 24plex (STRmix)					
	16,18.3	17,19	11,14	15,18	11,11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10				
MDTW2D	GlobalFiler™					
	16,18.3	17,19	11,14	15,18	11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	
MJ8YCU	Investigator® 24plex (STRmix)					
	16,18.3	17,19	11,14	15,18	11,11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10				
MNNCH2	Investigator® 24plex					
	16,18.3	17,19	11,14	15,18	11,11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10				

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 4sp - STR Results

MYVUFY — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,18.3	17,19	11,14	15,18	11,11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			2	

N2K7XA — PowerPlex® Fusion 6C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,18.3	17,19	11,14	15,18	11	
4sp	10,11	11,13	14,15,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21	11,12	10,12	18,26.2	6,9.3	8,11
	17	10	16	17		

N9496C — Identifiler® ID+ (STRMIX)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
		17,19		15,18	11,11	
4sp	10,11	11,13			9,12	11,11
	15,17	14,15.2	29,31		X,Y	11,11
	19,21				6,9.3	8,11
	17,17					

NG67KU — Investigator® 24plex

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,18.3	17,19	11,14	15,18	11,11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10				

NMMR3M — GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	16,18.3	17,19	11,14	15,18	11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	

NZ4HC4 — PowerPlex® Fusion 5C

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,14,16,18.3	17,19,21,25	11,14	15,17,18	7,11,12	
4sp	10,11	11,13,15	14,15,17	15,18,19,19.3	9,11,12,13	11,12,13
	15,16,17	12,14,15.2	28,29,31	15,16	X,Y	10,11,12
	19,21,24	10,11,12	7,10,12		6,8,9.3	8,11
	14,17	10				

P39WML — GlobalFiler™ (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	12,16,18.3	17,19	11,14	15,18	11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	14,17	10			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 4sp - STR Results

P3MWEJ PowerPlex® Fusion, GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12	18,26.2	6,9.3	8,11
	17,17	10			2	

P43K4V Investigator® 24plex (STRmix)

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	12,14,16,18.3	17,19,21,25	11,14	15,17,18	7,11,12	
	10,11	11,13,15	14,15,17	15,18,19,19.3	9,11,12,13	11,12,13
	15,16,17	12,14,15.2	28,29,31	15,16	X,Y	10,11,12
	19,21,24			18,20,26.2	6,8,9.3	8,11
	14,17	10				

P9N9AF PowerPlex® Fusion

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	16,18.3	17,19	11,14	15,18	11	
	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21	11,12	10,12		6,9.3	8,11
	17	10				

PK297A GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	16,18.3	17,19	11,14	15,18	11	
	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	

PLU7EF GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	16,18.3	17,19	11,14	15,18	11,11	
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21			18,26.2	6,9.3	8,11
	17,17	10			2	

PNX2VX Investigator® 24plex QS

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	16,18.3	17,19	11,14	15,18	11,11	Not Tested
	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	Not Tested	Not Tested	18,26.2	6,9.3	8,11
	17,17	10	Not Tested	Not Tested	Not Tested	

PPYPJ3 GlobalFiler™

	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
4sp	16,18.3	17,19	11,14	15,18	11	
	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	

TABLE 1

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

Item 4sp - STR Results

PYNKFX GlobalFiler™

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

PZWWXY GlobalFiler™

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

Q6RDCJ GlobalFiler™ (STRmix)

16,18.3	17,19	11,14	15,18	11	
10,11	11,13,[15]	14,17	18,19.3	9,12	11
15,17	[12],14,15.2	29,31	16	X,Y	11
19,21,[24]			18,26.2	6,[8],9.3	8,11
17	10			2	

QAYCGC

12,14,16,18.3	17,19,21,25	11,14	15,17,18	7,11,12	
10,11	11,13,15	14,15,17	15,18,19,19.3	9,11,12,13	11,12,13
15,16,17	12,14,15.2	28,29,31	15,16	X,Y	10,11,12
19,21,24			18,20,26.2	6,8,9.3	8,11
14,17	10			2	

QJ2R6W GlobalFiler™

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

QKUPD3 PowerPlex® 5C

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12		6,9.3	8,11
17,17	10				

QLTQLF PowerPlex® Fusion 5C

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12		6,9.3	8,11
17,17	10				

TABLE 1

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

Item 4sp - STR Results

R2QN9G — Investigator® 24plex QS

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,[26.2]	6,[9.3]	8,11
17	10				

R7RF9T — GlobalFiler™

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

R7WVLU — GlobalFiler™

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

RDGW28 — PowerPlex® Fusion 6C

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17	10	16	17		

RN4HFM — Investigator® 24plex (STRMix)

12,14,16,18.3	17,19,21,25	11,14	15,17,18	7,11,12	
10,11	11,13,15	14,15,17	15,18,19,19.3	9,11,12,13	11,12,13
15,16,17	12,14,15.2	28,29,31	15,16,17	X,Y	10,11,12
19,21,24			18,19,20,26.2	6,8,9.3	8,11
14,17	10				

RND4G3 — PowerPlex® Fusion 5C

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12		6,9.3	8,11
17,17	10				

RNGG97 — PowerPlex® Fusion

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12		6,9.3	8,11
17	10				

TABLE 1

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 4sp - STR Results

RYVGY8 GlobalFiler™ (TrueAllele)

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

(4sp)

T7UK6G Identifiler® Plus

	17,19		15,18	11	
10,11	11,13			9,12	11
15,17	14,15.2	29,31		X,Y	11
19,21				6,9.3	8,11
17					

(4sp)

T9LU2H GlobalFiler™ (STRmix)

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

(4sp)

TANM6B PowerPlex® Fusion 6C

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

(4sp)

THM6L9 Identifiler® Plus

	17,19		15,18	11,11	
10,11	11,13			9,12	11,11
15,17	14,15.2	29,31		X,Y	11,11
19,21				6,9.3	8,11
17,17					

(4sp)

TPEJ2L Investigator® 24plex (STRmix)

12,14,16,18.3	17,19,21,25	10,11,14	14,15,17,18	7,10,11,12	
10,11	10,11,12,13,15	13,14,15,16,17	15,18,19,19.3	9,11,12,13	11,12,13
14,15,16,17	12,13,14,15.2	28,29,30,31	15,16,17	X,Y	10,11,12
19,20,21,24			17,18,19,20,25.2,26.2	6,8,9.3	8,11
14,16,17	10				

(4sp)

TABLE 1

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

Item 4sp - STR Results

TTPUPA — PowerPlex® Fusion

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12		6,9.3	8,11
17,17	10				

4sp

U43PGN — GlobalFiler™

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

4sp

U9C3Z8 — Identifiler® Plus

	17,19		15,18	11	
10,11	11,13			9,12	11
15,17	14,15.2	29,31		X,Y	11
19,21				6,9.3	8,11
17					

4sp

UARTD4 — PowerPlex® Fusion 6C

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

4sp

UFJX9T — Investigator® 24plex (STRMIX)

12,16,18.3	17,19	11,14	15,17,18	7,11,12	
10,11	11,13	14,15,17	15,18,19.3	9,11,12	11,12
15,16,17	12,14,15.2	28,29,31	15,16	X,Y	10,11
19,21,24			18,20,26.2	6,8,9.3	8,11
14,17	10				

4sp

UG3REM — Investigator® 24plex

[14],16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

4sp

UG86ZX — GlobalFiler™

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

4sp

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 4sp - STR Results

UK24BM — Investigator® 24plex

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	N/A
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	N/A	N/A	18,26.2	6,9.3	8,11
17,17	10	N/A	N/A	N/A	

UUD36X — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

UWJHHV — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

VMNZGR — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

VMYWFC — Investigator® 24plex QS (STRMix)

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10				

VRJWYR — GlobalFiler™

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

W4DCNT — Investigator® 24plex

D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

TABLE 1

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

Item 4sp - STR Results

WEDXWC   Identifiler®

	17,19		15,18	11	
10,11	11,13			9,12	11
15,17	14,15.2	29,31		X,Y	11
19,21				6,9.3	8,11
17					

(Item: 4sp)

WGE4AX   GlobalFiler™

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

(Item: 4sp)

WQ6K38   GlobalFiler™

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

(Item: 4sp)

WUTNX6   Identifiler® Plus

	17,19		15,18	11,11	
10,11	11,13			9,12	11,11
15,17	14,15.2	29,31		X,Y	11,11
19,21				6,9.3	8,11
17,17					

(Item: 4sp)

WZ92CP   GlobalFiler™

16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

(Item: 4sp)

WZELND   GlobalFiler™ (STRmix)

12,16,18.3	17,19,21,25	11,14	15,18	11	
10,11	11,13	14,17	15,18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

(Item: 4sp)

X24MYN   PowerPlex® Fusion 6C

16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17,17	10	16	17		

(Item: 4sp)

TABLE 1

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

Item 4sp - STR Results

X72QZE — GlobalFiler™ (STRmix)

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
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

X7L8EV — GlobalFiler™

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
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10			2	

X8X796 — PowerPlex® Fusion 5C

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
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12		6,9.3	8,11
17,17	10				

XB78YV — Investigator® 24plex

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
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21			18,26.2	6,9.3	8,11
17,17	10				

XCJRR7 — GlobalFiler™

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
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21			18,26.2	6,9.3	8,11
17	10			2	

XF3Q6Z — PowerPlex® Fusion 6C

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
16,18.3	17,19	11,14	15,18	11	
10,11	11,13	14,17	18,19.3	9,12	11
15,17	14,15.2	29,31	16	X,Y	11
19,21	11,12	10,12	18,26.2	6,9.3	8,11
17	10	16	17		

XGHFVD — PowerPlex® Fusion

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
16,18.3	17,19	11,14	15,18	11,11	
10,11	11,13	14,17	18,19.3	9,12	11,11
15,17	14,15.2	29,31	16,16	X,Y	11,11
19,21	11,12	10,12		6,9.3	8,11
17,17	10				

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 4sp - STR Results

Item						
XVGURV	GlobalFiler™					
	16,18.3	17,19	11,14	15,18	11	
4sp	10,11	11,13	14,17	18,19.3	9,[11],12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21,[24]			18,26.2	6,9.3	8,11
	17	10			2	
XY32GP	Investigator® 24plex (STRmix)					
	12,15,16,18.3	17,18,19	11,14	15,17,18	10,11	
4sp	10,11	11,13	14,16,17	18,19.3	9,12	10,11
	14,15,16,17	14,15.2	28,29,30,31	16	X,Y	10,11
	19,20,21			18,26.2	6,8,9.3	8,10,11
	16,17	10				
YG9QLR	GlobalFiler™					
	16,18.3	17,19	11,14	15,18	11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	
YNP9UT	PowerPlex® Fusion 5C					
	16,18.3	17,19	11,14	15,18	11,11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	11,12	10,12		6,9.3	8,11
	17,17	10				
YU3CDM	Investigator® 24plex (STRmix)					
	12,16,18.3	17,19,25	11,14	15,17,18	10,11	
4sp	10,11	11,13,15	14,17	15,18,19,19.3	9,11,12	11
	15,16,17	12,14,15.2	28,29,30,31	15,16,17	X,Y	10,11
	19,21,24			18,26.2	6,8,9.3	8,11
	16,17	10				
YZ47YW	Investigator® 24plex					
	16,18.3	17,19	11,14	15,18	11,11	Not Tested
4sp	10,11	11,13	14,17	18,19.3	9,12	11,11
	15,17	14,15.2	29,31	16,16	X,Y	11,11
	19,21	Not Tested	Not Tested	18,26.2	6,9.3	8,11
	17,17	10	Not Tested	Not Tested	Not Tested	
Z3CZPZ	Identifiler® Plus					
		17,19		15,18	11	
4sp	10,11	11,13			9,12	11
	15,17	14,15.2	29,31		X,Y	11
	19,21				6,9.3	8,11
	17					

TABLE 1

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

Item 4sp - STR Results

ZLJ2BZ	Identifiler® Plus					
	-	17,19	-	15,18	11	-
4sp	10,11	11,13	-	-	9,12	11
	15,17	14,15.2	29,31	-	X,Y	11
	19,21	-	-	-	6,9.3	8,11
	17	-	-	-	-	

ZWEE8Q	GlobalFiler™					
	16,18.3	17,19	11,14	15,18	11	
4sp	10,11	11,13	14,17	18,19.3	9,12	11
	15,17	14,15.2	29,31	16	X,Y	11
	19,21			18,26.2	6,9.3	8,11
	17	10			2	

YSTR Amplification Kit(s) & Results

TABLE 2

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

Item 1 - YSTR Results

2HZRT8   Yfiler™

1

9HCW7X   Yfiler™

1

HJV3JR   Yfiler™

1

UG86ZX   Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	NR	NR	NR	NR	NR	NR	NR	NR	NR
1	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

UJFLTF   Yfiler™

1

WEDXWC   Yfiler™

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		NA	NA	NA	NA	NA	NA	NA	NA
1	NA	NA	NA	NA		NA	NA		
							NA		NA

WRYYKB   Yfiler™

1

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
2DH423 Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
2	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
2HZRT8 Yfiler™		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		
							22		10
2PZLVV Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
2	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
2XPGTP Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
2	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
2Z4BZW Yfiler™		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		
							22		10
3DNA44 Yfiler™		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		
							22		10
3ZY8MW Yfiler™		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		
							22		10
4L7NCT PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
4M8Z6M Yfiler™		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		
							22		10
4PACYW Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
2	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
4QJJZ4 PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
4UJPGU PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		25
		11	12	16	17		22	11	10

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	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
4VF44M	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
2		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
4YDRGN	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
2		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
6HKCWN	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
6NFFA8	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
6QEGPP	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
6QMVJY	PowerPlex® Y Y23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
7AAABM	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
7AGQX8	Yfiler™		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		
								22		10
7AUMY7	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
7B6XRX	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
2		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
8EHLRR	Yfiler™		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		
								22		10
8EWN9T	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10

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	Kit	Col1	Col2	Col3	Col4	Col5	Col6	Col7	Col8	Col9
8Y2YG3	Yfiler™		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		
								22		10
9DK7TU	Yfiler™									
		-	13	14,17	13	29	22	10	15	13
2		14	11	12	19	-	15	17	-	-
		-	-	-	-	-	-	22	-	10
9FB9YH	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
2		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
9HCW7X	Yfiler™		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		
								22		10
9J3LDR	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
		11	12		16	17		22	11	10
A3RFHL	PowerPlex® Y		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
		11	12		16	17		22	11	10
AEBPAL	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
2		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
AFRB99	Yfiler™		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		
								22		10
AMBG3U	Yfiler™		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		
								22		10
AUUKAX	Yfiler™		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		
								22		10
BDGVA2	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
		11	12		16	17		22	11	10
BN22AQ	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
		11	12		16	17		22	11	10

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									
BPH4LJ — PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
CKT76E		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		
							22		10
CXCJUN — Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
2	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
CXWZAQ — Yfiler™		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		
							22		10
D9VM2T — Yfiler™		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		
							22		10
DBG36N — Yfiler™		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		
							22		10
DLZCUG — PowerPlex® Y 23		13	14,17	13	29	22	10	15,[16]	13
2	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
EJM9CB — PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
F46X4E — Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
2	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
F6ZLH4 — PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
FW9XVD — PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
FX4L8G — Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
2	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10

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 2 - 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
FZBYVB	Yfiler™ Plus									
		35	13	14,17	13	29	22	10	15	13
2		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
GETGP6	PowerPlex® Y 23									
			13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
HA6WR9	Yfiler™ Plus									
		35	13	14,17	13	29	22	10	15	13
2		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
HEYXTM	PowerPlex® Y 23									
			13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
HJV3JR	Yfiler™									
			13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		
								22		10
HZPENM	PowerPlex® Y 23									
			13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
J6BGKD	Yfiler™ Plus									
		35	13	14,17	13	29	22	10	15	13
2		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
JBJAYN	Yfiler™									
			13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		
								22		10
JCFMLF	Yfiler™									
			13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		
								22		10
JKUCKN	Yfiler™									
			13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		
								22		10
JNN2GG	Yfiler™ Plus Direct									
		35	13	14,17	13	29	22	10	15	13
2		14	11	12	19	29	15	17	10	25
		39	11	NT	16	17	21	22	NT	10
JP2XCR	PowerPlex® Y 23									
			13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10

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 2 - YSTR Results

JTMK6F — Yfiler™

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		
							22		10

KBB2H3 — PowerPlex® Y 23

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		25
	11	12	16	17			22	11	10

KEC2KK — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	35	13	14,17	13	29	22	10	15	13
2	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10

L67737 — Yfiler™

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		
							22		10

LLUUBB — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	35	13	14,17	13	29	22	10	15	13
2	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10

LP7289 — Yfiler™

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		
							22		10

LQ2PLX — Yfiler™

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		
							22		10

LVFVRK — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	35	13	14,17	13	29	22	10	15	13
2	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10

MDTW2D — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	35	13	14,17	13	29	22	10	15	13
2	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10

N2K7XA — Yfiler™

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		
							22		10

N2UR2B — PowerPlex® Y 23

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		25
	11	12	16	17			22	11	10

N9496C — PowerPlex® Y PPY23

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		25
	11	12	16	17			22	11	10

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	Amplification Kit	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
NDM9QC	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
NLGGB4	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
P43K4V	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
P4C86C	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
P9N9AF	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
2		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
PK297A	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
2		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
PPYPJ3	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
2		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
PYNKFX	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
PZWWXY	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
Q6RDCJ	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
QJ2R6W	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
R7WVLU	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10

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 2 - YSTR Results

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
RDGW28 — PowerPlex® Y 23									
		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
RN4HFM — PowerPlex® Y 23									
		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
RNGG97 — Yfiler™ Plus									
	35	13	14,17	13	29	22	10	15	13
2	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
RYVGY8 — Yfiler™ Plus									
	35	13	14,17	13	29	22	10	15	13
2	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
T7UK6G — Yfiler™									
		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		
							22		10
TANM6B — PowerPlex® Y 23									
		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
TDB779 — PowerPlex® Y 23									
		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
THM6L9 — Yfiler™ 27, PowerPlex® Y 23									
	35,35	13	14,17	13	29	22	10	15	13
2	14	11	12	19	29	15	17	10	25
	39	11	12	16	17	21	22	11	10
TPEJ2L — PowerPlex® Y 23									
		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
TTPUPA — PowerPlex® Y 23									
		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
U9C3Z8 — Yfiler™									
		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		
							22		10
UARTD4 — Yfiler™									
		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		
							22		10

TABLE 2

Item 2 - 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
UFJX9T	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
UG86ZX	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
2		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
UJFLTF	Yfiler™		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		
								22		10
VMNZGR	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
VMYWFC	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
W8NME2	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
WEDXWC	Yfiler™		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		
								22		10
WGE4AX	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
2		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
WRYYKB	Yfiler™		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		
								22		10
WUTNX6	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
WZ92CP	Yfiler™		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		
								22		10
X8X796	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
2		14	11	12	19		15	17		25
			11	12	16	17		22	11	10

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
XGHFVD — PowerPlex® Y 23									
		13	14,17	13	29	22	10	15	13
2	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
XVGURV — Yfiler™ Plus									
	35	13	14,17	13	29	22	10	15	13
2	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
YG9QLR — Yfiler™ Plus									
	35	13	14,17	13	29	22	10	15	13
2	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
ZLJ2BZ — Yfiler™									
	-	13	14,17	13	29	22	10	15	13
2	14	11	12	19	-	15	17	-	-
	-	-	-	-	-	-	22	-	10
ZWEE8Q — Yfiler™ Plus									
	35	13	14,17	13	29	22	10	15	13
2	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10

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 3 - YSTR Results

2DH423 — Yfiler™ Plus

	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

2PZLVV — Yfiler™ Plus

	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

4QJJZ4 — PowerPlex® Y 23

		No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results
3	No Results	No Results	No Results	No Results		No Results	No Results		No Results
		No Results	No Results	No Results	No Results		No Results	No Results	No Results

AEBPAL — Yfiler™ Plus

	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

BPH4LJ — PowerPlex® Y 23

		No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results
3	No Results	No Results	No Results	No Results		No Results	No Results		No Results
		No Results	No Results	No Results	No Results		No Results	No Results	No Results

EJM9CB — PowerPlex® Y 23

		No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results
3	No Results	No Results	No Results	No Results		No Results	No Results		No Results
		No Results	No Results	No Results	No Results		No Results	No Results	No Results

F6ZLH4 — PowerPlex® Y 23

		No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results
3	No Results	No Results	No Results	No Results		No Results	No Results		No Results
		No Results	No Results	No Results	No Results		No Results	No Results	No Results

HZPENM — PowerPlex® Y 23

		No Results	No Results	No Results	No Results	No Results	No Results	No Results	No Results
3	No Results	No Results	No Results	No Results		No Results	No Results		No Results
		No Results	No Results	No Results	No Results		No Results	No Results	No Results

J6BGKD — Yfiler™ Plus

	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

KEC2KK — Yfiler™ Plus

	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

LLUUBB — Yfiler™ Plus

	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR

LP7289 — Yfiler™

		NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR		NR	NR		
							NR		NR

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	Kit								
LVFVRK	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
P9N9AF	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
RNGG97	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
T7UK6G	Yfiler™								
		-	-	-	-	-	-	-	-
3	-	-	-	-		-	-		
							-		-
UG86ZX	Yfiler™ Plus								
	NR	NR	NR	NR	NR	NR	NR	NR	NR
3	NR	NR	NR	NR	NR	NR	NR	NR	NR
	NR	NR		NR	NR	NR	NR		NR
WEDXWC	Yfiler™								
		NA	NA	NA	NA	NA	NA	NA	NA
3	NA	NA	NA	NA		NA	NA		
							NA		NA

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

WebCode Item									
FX4L8G	Yfiler™ Plus								
	35	13	14,17	13	29	22	10	15	13
4	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
HEYXTM	PowerPlex® Y 23								
		13	14,17	13	29	22	10	15	13
4	14	11	12	19		15	17		25
		11	12	16	17		22	11	10

TABLE 2

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

Item 4e - YSTR Results

2DH423	Yfiler™ Plus								
	35	13	14,17	13	29	22	10	15	13
4e	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
2PZLVV	Yfiler™ Plus								
	35	13	14,17	13	29	22	10	15	13
4e	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
2XPGTP	Yfiler™ Plus								
	35	13	14,17	13	29	22	10	15	13
4e	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
2Z4BZW	Yfiler™								
4e									
3DNA44	Yfiler™								
4e									
3ZY8MW	Yfiler™								
4e									
4M8Z6M	Yfiler™								
4e									
4PACYW	Yfiler™ Plus								
	35	13	14,17	13	29	22	10	15	13
4e	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
4QJJZ4	PowerPlex® Y 23								
		13	14,17	13	29	22	10	15	13
4e	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
4UJPGU	PowerPlex® Y 23								
4e									
4VF44M	Yfiler™ Plus								
	35	13	14,17	13	29	22	10	15	13
4e	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
4YDRGN	Yfiler™ Plus								
4e									

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 4e - YSTR Results

6HKCWN — PowerPlex® Y 23

4e									

6NFFA8 — PowerPlex® Y 23

4e									
		13	14,17	13	29	22	10	15	13
	14	11	12	19		15	17		25
	11	12	16	17			22	11	10

6QEGPP — PowerPlex® Y 23

4e									

6QMVJY — PowerPlex® Y Y23

4e									
		NT	NT	NT	NT	NT	NT	NT	NT
	NT	NT	NT	NT		NT	NT		NT
	NT	NT	NT	NT			NT	NT	NT

7AAABM — PowerPlex® Y 23

4e									
		13	14,17	13	29	22	10	15	13
	14	11	12	19		15	17		25
	11	12	16	17			22	11	10

7AGQX8 — Yfiler™

4e									
		13	14,17	13	29	22	10	15	13
	14	11	12	19		15	17		
							22		10

7AUMY7 — PowerPlex® Y 23

4e									
			14,17	13		22	10	15	13
		11	12	19			17		25
	11	12	16	17			22		

8EHLRR — Yfiler™

4e									
		13	14,17	13	29	22	10	15	13
	14	11	12	19		15	17		
							22		10

8Y2YG3 — Yfiler™

4e									
		13	14,17	13	29	22	10	15	13
	14	11	12	19		15	17		
							22		10

9DK7TU — Yfiler™

4e									
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-

9FB9YH — Yfiler™ Plus

4e									
	35	13	14,17	13	29	22	10	15	13
	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10

AEBPAL — Yfiler™ Plus

4e									
	35	13	14,17	13	29	22	10	15	13
	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10

TABLE 2

Item 4e - 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
AFRB99 4e	Yfiler™		13	14,17	13	29	22	10	15	13
		14	11	12	19		15	17		
								22		10
AMBG3U 4e	Yfiler™									
AUUKAX 4e	Yfiler™									
BDGVA2 4e	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
		14	11	12	19		15	17		25
		11	12	16	17			22	11	10
BN22AQ 4e	PowerPlex® Y 23									
BPH4LJ 4e	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
		14	11	12	19		15	17		25
		11	12	16	17			22	11	10
CKT76E 4e	Yfiler™		13	14,17	13	29	22	10	15	13
		14	11	12	19		15	17		
								22		10
CXCJUN 4e	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
CXWZAQ 4e	Yfiler™									
DBG36N 4e	Yfiler™		-	-	-	-	-	-	-	-
		-	-	-	-		-	-		
								-		-
DLZCUG 4e	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
		14	11	12	19		15	17		25
		11	12	16	17			22	11	10
EJM9CB 4e	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
		14	11	12	19		15	17		25
		11	12	16	17			22	11	10

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 4e - 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
F46X4E	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
4e		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
F6ZLH4	PowerPlex® Y 23		No Results	14,17	13	29	22	10	15	13
4e		14	11	12	19		15	17		No Results
			11	12	16	17		22	11	No Results
FW9XVD	PowerPlex® Y 23									
4e										
FZBYVB	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
4e		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
GETGP6	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
4e		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
HA6WR9	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
4e		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
HZPENM	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
4e		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
J6BGKD	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
4e		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
JNN2GG	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
4e		14	11	12	19	29	15	17	10	25
		39	11	NT	16	17	21	22	NT	10
JP2XCR	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
4e		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
JTMK6F	Yfiler™									
4e										
KBB2H3	PowerPlex® Y 23									
4e										

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 4e - YSTR Results

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
KEC2KK — Yfiler™ Plus									
4e	35	13	14,17	13	29	22	10	15	13
	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
L67737 — Yfiler™									
4e		13	14,17	13	29	22	10	15	13
	14	11	12	19		15	17		
							22		10
LLUUBB — Yfiler™ Plus									
4e	35	13	14,17	13	29	22	10	15	13
	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
LP7289 — Yfiler™									
4e		13	14,17	13	29	22	10	15	13
	14	11	12	19		15	17		
							22		10
LQ2PLX — Yfiler™									
4e		13	14,17	13	29	22	10	15	13
	14	11	12	19		15	17		
							22		10
LVFVRK — Yfiler™ Plus									
4e	35	13	14,17	13	29	22	10	15	13
	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
MDTW2D — Yfiler™ Plus									
4e	35	NR	14,17	13	29	NR	NR	NR	13
	NR	NR	12	NR	NR	NR	NR	NR	NR
	NR	11		16	17	21	22		10
N2K7XA — Yfiler™									
4e									
N9496C — PowerPlex® Y PPY23									
4e		NT	NT	NT	NT	NT	NT	NT	NT
	NT	NT	NT	NT		NT	NT		NT
		NT	NT	NT	NT		NT	NT	NT
P43K4V — PowerPlex® Y 23									
4e		13	14,17	13	29	22	10	15	13
	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
P9N9AF — Yfiler™ Plus									
4e	35	13	14,17	13	29	22	10	15	13
	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
PK297A — Yfiler™ Plus									
4e	35	13	14,17	13	29	22	10	15	13
	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10

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 4e - 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
PPYPJ3 4e	Yfiler™ Plus	35 / 14 / 39	13 / 11 / 11	14,17 / 12 /	13 / 19 / 16	29 / 29 / 17	22 / 15 / 21	10 / 17 / 22	15 / 10 /	13 / 25 / 10
PYNKFX 4e	PowerPlex® Y 23									
PZWWXY 4e	PowerPlex® Y 23									
Q6RDCJ 4e	PowerPlex® Y 23	/ 14 /	13 / 11 / 11	14,17 / 12 / 12	13 / 19 / 16	29 / / 17	22 / 15 /	10 / 17 / 22	15 / / 11	13 / 25 / 10
QJ2R6W 4e	PowerPlex® Y 23	/ 14 /	13 / 11 / 11	14,17 / 12 / 12	13 / 19 / 16	29 / / 17	22 / 15 /	10 / 17 / 22	15 / / 11	13 / 25 / 10
R7WVLU 4e	PowerPlex® Y 23									
RDGW28 4e	PowerPlex® Y 23	/ 14 /	13 / 11 / 11	14,17 / 12 / 12	13 / 19 / 16	29 / / 17	22 / 15 /	10 / 17 / 22	15 / / 11	13 / 25 / 10
RN4HFM 4e	PowerPlex® Y 23	/ 14 /	13 / 11 / 11	14,17 / 12 / 12	13 / 19 / 16	29 / / 17	22 / 15 /	10 / 17 / 22	15 / / 11	13 / 25 / 10
RNGG97 4e	Yfiler™ Plus	35 / 14 / 39	13 / 11 / 11	14,17 / 12 /	13 / 19 / 16	29 / 29 / 17	22 / 15 / 21	10 / 17 / 22	15 / 10 /	13 / 25 / 10
RYVGY8 4e	Yfiler™ Plus	35 / 14 / 39	13 / 11 / 11	14,17 / 12 /	13 / 19 / 16	29 / 29 / 17	22 / 15 / 21	10 / 17 / 22	15 / 10 /	13 / 25 / 10
T7UK6G 4e	Yfiler™	/ 14 /	13 / 11 /	14,17 / 12 /	13 / 19 /	29 / /	22 / 15 /	10 / 17 / 22	15 / /	13 / / 10
TANM6B 4e	PowerPlex® Y 23									

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 4e - YSTR Results

THM6L9 — Yfiler™ 27, PowerPlex® Y 23
4e

TPEJ2L — PowerPlex® Y 23
4e

TTPUPA — PowerPlex® Y 23
4e

U9C3Z8 — Yfiler™
4e

UARTD4 — Yfiler™
4e

UFJX9T — PowerPlex® Y 23
4e

UG86ZX — Yfiler™ Plus

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
	35	13	14,17	13	29	22	10	15	13
4e	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10

VMNZGR — PowerPlex® Y 23
4e

VMYWFC — PowerPlex® Y 23
4e

WEDXWC — Yfiler™

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
		13	[14,17]	[13]	NA	22	10	[15]	13
4e	14	11	[12]	[19]		[15]	17		
							[22]		NA

WGE4AX — Yfiler™ Plus

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
	35	13	14,17	13	29	22	10	15	13
4e	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10

WUTNX6 — PowerPlex® Y 23
4e

TABLE 2

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

Item 4e - YSTR Results

WZ92CP — Yfiler™

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	13	14,17	13	29	22	10	15	13
14	11	12	19		15	17		
						22		10

X8X796 — PowerPlex® Y 23

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	13	14,17			22	10		13
	11	12				17		
		16				22		10

XGHFVD — PowerPlex® Y 23

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	13	14,17	13	29	22	10	15	13
14	11	12	19		15	17		25
11	12	16	17			22	11	10

XVGURV — Yfiler™ Plus

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393

YG9QLR — Yfiler™ Plus

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35	13	14,17	13	29	22	10	15	13
14	11	12	19	29	15	17	10	25
39	11		16	17	21	22		10

ZLJ2BZ — Yfiler™

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393

ZWEE8Q — Yfiler™ Plus

DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
35	13	14,17	13	29	22	10	15	13
14	11	12	19	29	15	17	10	25
39	11		16	17	21	22		10

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 4sp - 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
2DH423	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
4sp		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
2PZLVV	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
4sp		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
2XPGTP	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
4sp		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
2Z4BZW	Yfiler™		13	14,17	13	29	22	10	15	13
4sp		14	11	12	19		15	17		
								22		10
3DNA44	Yfiler™		13	14,17	13	29	22	10	15	13
4sp		14	11	12	19		15	17		
								22		10
3ZY8MW	Yfiler™		13	14,17	13	29	22	10	15	13
4sp		14	11	12	19		15	17		
								22		10
4M8Z6M	Yfiler™		13	14,17	13	29	22	10	15	13
4sp		14	11	12	19		15	17		
								22		10
4PACYW	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
4sp		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
4QJJZ4	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
4sp		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
4UJPGU	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
4sp		14	11	12	19		15	17		25
			11	12	16	17		22	11	10
4VF44M	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
4sp		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
4YDRGN	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
4sp		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10

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 4sp - YSTR Results

WebCode / Item	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
6HKCWN	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
4sp		14	11	12	19		15	17		25
		11	12	16	17			22	11	10
6NFFA8	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
4sp		14	11	12	19		15	17		25
		11	12	16	17			22	11	10
6QEGPP	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
4sp		14	11	12	19		15	17		25
		11	12	16	17			22	11	10
6QMVJY	PowerPlex® Y Y23		13	14,17	13	29	22	10	15	13
4sp		14	11	12	19		15	17		25
		11	12	16	17			22	11	10
7AAABM	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
4sp		14	11	12	19		15	17		25
		11	12	16	17			22	11	10
7AGQX8	Yfiler™		13	14,17	13	29	22	10	15	13
4sp		14	11	12	19		15	17		
								22		10
7AUMY7	PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
4sp		14	11	12	19		15	17		25
		11	12	16	17			22	11	10
8EHLRR	Yfiler™		13	14,17	13	29	22	10	15	13
4sp		14	11	12	19		15	17		
								22		10
8Y2YG3	Yfiler™		13	14,17	13	29	22	10	15	13
4sp		14	11	12	19		15	17		
								22		10
9DK7TU	Yfiler™	-	13	14,17	13	29	22	10	15	13
4sp		14	11	12	19	-	15	17	-	-
		-	-	-	-	-	-	22	-	10
9FB9YH	Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
4sp		14	11	12	19	29	15	17	10	25
		39	11		16	17	21	22		10
A3RFHL			13	14,17	13	29	22	10	15	13
4sp		14	11	12	19		15	17		25
		11	12	16	17			22	11	10

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 4sp - YSTR Results

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
AEBPAL — Yfiler™ Plus									
	35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
AFRB99 — Yfiler™									
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		
							22		10
AMBG3U — Yfiler™									
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		
							22		10
AUUKAX — Yfiler™									
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		
							22		10
BDGVA2 — PowerPlex® Y 23									
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
BN22AQ — PowerPlex® Y 23									
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
BPH4LJ — PowerPlex® Y 23									
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
CKT76E — Yfiler™									
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		
							22		10
CXCJUN — Yfiler™ Plus									
	35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
CXWZAQ — Yfiler™									
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		
							22		10
DBG36N — Yfiler™									
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		
							22		10
DLZCUG — PowerPlex® Y 23									
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
		11	12	16	17		22	11	10

TABLE 2

WebCode / 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 4sp - 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
EJM9CB — PowerPlex® Y 23									
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
	11	12	16	17			22	11	10
F46X4E — Yfiler™ Plus									
	35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
F6ZLH4 — PowerPlex® Y 23									
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
	11	12	16	17			22	11	10
FW9XVD — PowerPlex® Y 23									
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
	11	12	16	17			22	11	10
FZBYVB — Yfiler™ Plus									
	35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
GETGP6 — PowerPlex® Y 23									
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
	11	12	16	17			22	11	10
HA6WR9 — Yfiler™ Plus									
	35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
HZPENM — PowerPlex® Y 23									
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
	11	12	16	17			22	11	10
J6BGKD — Yfiler™ Plus									
	35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
JNN2GG — Yfiler™ Plus									
	35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11	NT	16	17	21	22	NT	10
JP2XCR — PowerPlex® Y 23									
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
	11	12	16	17			22	11	10
JTMK6F — Yfiler™									
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		
							22		10

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 4sp - 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
KBB2H3 — PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
	11	12	16	17			22	11	10
KEC2KK — Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
L67737 — Yfiler™		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		
							22		10
LLUUBB — Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
LP7289 — Yfiler™		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		
							22		10
LQ2PLX — Yfiler™		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		
							22		10
LVFVRK — Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
MDTW2D — Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
N2K7XA — Yfiler™		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		
							22		10
N9496C — PowerPlex® Y PPY23		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
	11	12	16	17			22	11	10
P43K4V — PowerPlex® Y 23		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
	11	12	16	17			22	11	10
P9N9AF — Yfiler™ Plus	35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10

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 4sp - YSTR Results

WebCode / Item	Amplification Kit	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
PK297A	Yfiler™ Plus								
	35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
PPYPJ3	Yfiler™ Plus								
	35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
PYNKFX	PowerPlex® Y 23								
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
PZWWXY	PowerPlex® Y 23								
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
Q6RDCJ	PowerPlex® Y 23								
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
QJ2R6W	PowerPlex® Y 23								
4sp									
R7WVLU	PowerPlex® Y 23								
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
RDGW28	PowerPlex® Y 23								
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
RN4HFM	PowerPlex® Y 23								
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
RNGG97	Yfiler™ Plus								
	35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
RYVGY8	Yfiler™ Plus								
	35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
T7UK6G	Yfiler™								
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
							22		10

TABLE 2

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

Item 4sp - YSTR Results

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
TANM6B	PowerPlex® Y 23								
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
THM6L9	Yfiler™ 27, PowerPlex® Y 23								
	35,35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11	12	16	17	21	22	11	10
TPEJ2L	PowerPlex® Y 23								
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
TTPUPA	PowerPlex® Y 23								
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
U9C3Z8	Yfiler™								
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		
							22		10
UARTD4	Yfiler™								
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		
							22		10
UFJX9T	PowerPlex® Y 23								
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
UG86ZX	Yfiler™ Plus								
	35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10
VMNZGR	PowerPlex® Y 23								
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
VMYWFC	PowerPlex® Y 23								
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
		11	12	16	17		22	11	10
WEDXWC	Yfiler™								
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		
							22		10
WGE4AX	Yfiler™ Plus								
	35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10

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 4sp - YSTR Results

WUTNX6 — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
	11	12	16	17			22	11	10

WZ92CP — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		
							22		10

X8X796 — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
	11	12	16	17			22	11	10

XGHFVD — PowerPlex® Y 23

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		13	14,17	13	29	22	10	15	13
4sp	14	11	12	19		15	17		25
	11	12	16	17			22	11	10

XVGURV — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10

YG9QLR — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10

ZLJ2BZ — Yfiler™

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	-	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	-	15	17	-	-
	-	-	-	-	-	-	22	-	10

ZWEE8Q — Yfiler™ Plus

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	35	13	14,17	13	29	22	10	15	13
4sp	14	11	12	19	29	15	17	10	25
	39	11		16	17	21	22		10

Additional DNA Results

TABLE 3

Locus	WebCode	Item 1	Item 2	Item 3	Item 3e	Item 3sp	Item 4	Item 4e	Item 4sp
QS1	L8W89U			Q					
QS2	L8W89U			S					

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) Item 3	Item 4	Suspect (Item 2) Item 3	Item 4	WebCode	Victim (Item 1) Item 3	Item 4	Suspect (Item 2) Item 3	Item 4
244J47	Yes	Yes	No	Yes	4P63YJ	Yes	Yes	No	Yes
2CNFH8	Yes	Yes	No	Yes	4PACYW	Yes	Yes	No	Yes
2DH423	Yes	Yes	No	Yes	4QJJZ4	Yes	Yes	No	Yes
2HZRT8	No Interpretations Reported, DNA Analyzed for Database purposes only.				4U3GQE	Yes	Yes	No	Yes
2J44BN	Yes	Yes	No	Yes	4UJPGU	Yes	Yes	No	Yes
2PZLVV	Yes	Yes	No	Yes	4VF44M	Yes	Yes	No	Yes
2XAYUQ	Yes	Yes	No	Yes	4YDRGN	Yes	Yes	No	Yes
2XPGTP	Yes	Yes	No	Yes	6936LK	Yes	Yes	No	Yes
2Z4BZW	Yes	Yes	No	Yes	6BLUHC	Yes	Yes	No	Yes
38AADK	No Interpretations Reported, DNA Analyzed for Database purposes only.				6HKCWN	Yes	Yes	No	Yes
38WWA3	No Interpretations Reported, DNA Analyzed for Database purposes only.				6NFFA8	Yes	Yes	No	Yes
38YP3A	Yes	Yes	No	Yes	6QEGPP	Yes	Yes	No	Yes
3DNA44	Yes	Yes	No	Yes	6QMVJY	Yes	Yes	No	Yes
3P4WGB	Yes	Yes	No	Yes	6REUXW	Yes	Yes	No	Yes
3ZY8MW	Yes	Yes	No	Yes	6Y2GUN	Yes	Yes	No	Yes
4L7NCT	No Interpretations Reported, DNA Analyzed for Database purposes only.				7AAABM	Yes	Yes	No	Yes
4M8Z6M	Yes	Yes	No	Yes	7AGQX8	Yes	Yes	No	Yes

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
7AUMY7	Yes	Yes	No	Yes	A3RFHL	Yes	Yes	No	Yes
7B6XRX	No Interpretations Reported, DNA Analyzed for Database purposes only.				A7CTDN	Yes	Yes	No	Yes
7QTB2J	Yes	Yes	No	Yes	AEBPAL	Yes	Yes	No	Yes
7WF39C	Yes	Yes	No	Yes	AFRB99	Yes	Yes	No	Yes
7ZNHBV	Yes	Yes	No	Yes	AMBG3U	Yes	Yes	No	Yes
82FTNA	Yes	Yes	No	Yes	ATQRPP	Yes	Yes	No	Yes
86TUBZ	No Interpretations Reported, DNA Analyzed for Database purposes only.				AUUKAX	Yes	Yes	No	Yes
8EHLRR	Yes	Yes	No	Yes	B3XEJF	Yes	Yes	No	Yes
8EWN9T	No Interpretations Reported, DNA Analyzed for Database purposes only.				B3Z4QY	No Interpretations Reported, DNA Analyzed for Database purposes only.			
8L4F7C	Yes	Yes	No	Yes	BAA6GL	Yes	Yes	No	Yes
8P4Q2C					BDGVA2	Yes	Yes	No	Yes
8Y2YG3	Yes	Yes	No	Yes	BGT726	Yes	Yes	No	Yes
94RVJY	Yes	Yes	No	Yes	BN22AQ	Yes	Yes	No	Yes
9DK7TU	Yes	Yes	No	Yes	BPH4LJ	Yes	Yes	No	Yes
9FB9YH	Yes	Yes	No	Yes	CGAMUD	Yes	Yes	No	Yes
9HCW7X	No Interpretations Reported, DNA Analyzed for Database purposes only.				CKT76E	Yes	Yes	No	Yes
9J3LDR	No Interpretations Reported, DNA Analyzed for Database purposes only.				CKVWBW	Yes	Yes	No	Yes
9WRGUR	Yes	Yes	No	Yes	CN4RME	Yes	Yes	No	Yes

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
CTQYBM	Yes	Yes	No	Yes	FL99CQ	Yes	Yes	No	Yes
CXCJUN	Yes	Yes	No	Yes	FPYYN3	Yes	Yes	No	Yes
CXWZAQ	Yes	Yes	No	Yes	FQF3ME	Yes	Yes	No	Yes
CY7AXG	No Interpretations Reported, DNA Analyzed for Database purposes only.				FW9XVD	Yes	Yes	No	Yes
CZ2XC7	Yes	Yes	No	Yes	FX4L8G	Yes	Yes	No	Yes
D9VM2T	No Interpretations Reported, DNA Analyzed for Database purposes only.				FZBYVB	Yes	Yes	No	Yes
DBG36N	Yes	Yes	No	Yes	G282L6				
DG2N7Z	Yes	Yes	No	Yes	GBHBG4	No Interpretations Reported, DNA Analyzed for Database purposes only.			
DGU88U	Yes	Yes	No	Yes	GBWPJT	No Interpretations Reported, DNA Analyzed for Database purposes only.			
DLZCUG	Yes	Yes	No	Yes	GETGP6	Yes	Yes	No	Yes
E3NEDW	No Interpretations Reported, DNA Analyzed for Database purposes only.				HA6WR9	Yes	Yes	No	Yes
E4LRY4	Yes	Yes	No	Yes	HB2GE9	Yes	Yes	No	Yes
E6T4G7					HEYXTM	Yes	Yes	No	Yes
EJM9CB	Yes	Yes	No	Yes	HFH6MQ	Yes	Yes	No	Yes
EYJ7DQ	No Interpretations Reported, DNA Analyzed for Database purposes only.				HG79M7	Yes	Yes	No	Yes
F23W4G	Yes	Yes	No	Yes	HJV3JR	No Interpretations Reported, DNA Analyzed for Database purposes only.			
F46X4E	Yes	Yes	No	Yes	HRL6LH	No Interpretations Reported, DNA Analyzed for Database purposes only.			
F6ZLH4	Yes	Yes	No	Yes	HZPENM	Yes	Yes	No	Yes

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
J6BGKD	Yes	Yes	No	Yes	LGJ9MH	Yes	Yes	No	Yes
JBJAYN	No Interpretations Reported, DNA Analyzed for Database purposes only.				LLUUBB	Yes	Yes	No	Yes
JCFMLF	No Interpretations Reported, DNA Analyzed for Database purposes only.				LP7289	Yes	Yes	No	Yes
JKUCKN	No Interpretations Reported, DNA Analyzed for Database purposes only.				LQ2PLX	Yes	Yes	No	Yes
JNN2GG	Yes	Yes	No	Yes	LVFVRK	Yes	Yes	No	Yes
JP2XCR	Yes	Yes	No	Yes	M7Z2G2	Yes	Yes	No	Yes
JTMK6F	Yes	Yes	No	Yes	M99733	Yes	Yes	No	Yes
JZM46P	No Interpretations Reported, DNA Analyzed for Database purposes only.				MDTW2D	Yes	Yes	No	Yes
KBB2H3	Yes	Yes	No	Yes	MJ8YCU	Yes	Yes	No	Yes
KEC2KK	Yes	Yes	No	Yes	MNNCH2	Yes	Yes	No	Yes
KRL8YY	Yes	Yes	No	Yes	MYVUFY	Yes	Yes	No	Yes
KU2EQZ	Yes	Yes	No	Yes	N2K7XA	Yes	Yes	No	Yes
KU8QCB	No Interpretations Reported, DNA Analyzed for Database purposes only.				N2UR2B	No Interpretations Reported, DNA Analyzed for Database purposes only.			
L67737	Yes	Yes	No	Yes	N9496C	Yes	Yes	No	Yes
L679QP	Yes	Yes	No	Yes	NDM9QC	No Interpretations Reported, DNA Analyzed for Database purposes only.			
L8W89U	Yes	Yes	No	Yes	NG67KU	Yes	Yes	No	Yes
LBWJ6U	Yes	Yes	No	Yes	NLGGB4	No Interpretations Reported, DNA Analyzed for Database purposes only.			
LFPK4M	No Interpretations Reported, DNA Analyzed for Database purposes only.				NMMR3M	Yes	Yes	No	Yes

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
NZ4HC4	Yes	Yes	No	Yes	QKUPD3	Yes	Yes	No	Yes
P39WML	Yes	Yes	No	Yes	QLTQLF	Yes	Yes	No	Yes
P3MWEJ	Yes	Yes	No	Yes	QPTYN6	No Interpretations Reported, DNA Analyzed for Database purposes only.			
P43K4V	Yes	Yes	No	Yes	R2QN9G	Yes	Yes	No	Yes
P4C86C	No Interpretations Reported, DNA Analyzed for Database purposes only.				R7RF9T	Yes	Yes	No	Yes
P9N9AF	Yes	Yes	No	Yes	R7WVLU	Yes	Yes	No	Yes
PF9W2H	No Interpretations Reported, DNA Analyzed for Database purposes only.				RDGW28	Yes	Yes	No	Yes
PK297A	Yes	Yes	No	Yes	RN4HFM	Yes	Yes	No	Yes
PLU7EF	Yes	Yes	No	Yes	RND4G3	Yes	Yes	No	Yes
PNX2VX	Yes	Yes	No	Yes	RNGG97	Yes	Yes	No	Yes
PPYPJ3	Yes	Yes	No	Yes	RYVGY8	Yes	Yes	No	Yes
PXD4GJ	No Interpretations Reported, DNA Analyzed for Database purposes only.				T7UK6G	Yes	Yes	No	Yes
PYNKFX	Yes	Yes	No	Yes	T9LU2H	Yes	Yes	No	Yes
PZWWXY	Yes	Yes	No	Yes	TA29AT				
Q6RDCJ	Yes	Yes	No	Yes	TANM6B	Yes	Yes	No	Yes
QAYCGC	Yes	Yes	No	Yes	TDB779	No Interpretations Reported, DNA Analyzed for Database purposes only.			
QC88XF	No Interpretations Reported, DNA Analyzed for Database purposes only.				THM6L9	Yes	Yes	No	Yes
QJ2R6W	Yes	Yes	No	Yes	TPEJ2L	Yes	Yes	No	Yes

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
TTPUPA	Yes	Yes	No	Yes	WEDXWC	Yes	Yes	No	Yes
U43PGN	Yes	Yes	No	Yes	WG8BNG				
U9C3Z8	Yes	Yes	No	Yes	WGE4AX	Yes	Yes	No	Yes
UARTD4	Yes	Yes	No	Yes	WQ6K38	Yes	Yes	No	Yes
UCVYMC	Yes	Yes		Yes	WRYYKB	No Interpretations Reported, DNA Analyzed for Database purposes only.			
UFJX9T	Yes	Yes	No	Yes	WUTNX6	Yes	Yes	No	Yes
UG3REM	Yes	Yes	No	Yes	WZ92CP	Yes	Yes	No	Yes
UG86ZX	Yes	Yes	No	Yes	WZELND	Yes	Yes	No	Yes
UJFLTF	No Interpretations Reported, DNA Analyzed for Database purposes only.				X24MYN	Yes	Yes	No	Yes
UK24BM	Yes	Yes	No	Yes	X72QZE	Yes	Yes	No	Yes
UUD36X	Yes	Yes	No	Yes	X7L8EV	Yes	Yes	No	Yes
UWJHHV	Yes	Yes	No	Yes	X8X796	Yes	Yes	No	Yes
VMNZGR	Yes	Yes	No	Yes	XB78YV	Yes	Yes	No	Yes
VMYWFC	Yes	Yes	No	Yes	XCJRR7	Yes	Yes	No	Yes
VRJWYR	Yes	Yes	No	Yes	XF3Q6Z	Yes	Yes	No	Yes
VV2UUA	Yes	Yes	No	Yes	XGHFVD	Yes	Yes	No	Yes
W4DCNT	Yes	Yes	No	Yes	XVGURV	Yes	Yes	No	Yes
W8NME2	No Interpretations Reported, DNA Analyzed for Database purposes only.				XY32GP	Yes	Yes	No	Yes

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
YCVR6R	No Interpretations Reported, DNA Analyzed for Database purposes only.								
YG9QLR	Yes	Yes	No	Yes					
YNP9UT	Yes	Yes	No	Yes					
YU3CDM	Yes	Yes	No	Yes					
YZ47YW	Yes	Yes	No	Yes					
Z3CZPZ	Yes	Yes	No	Yes					
ZLJ2BZ	Yes	Yes	No	Yes					
ZWEE8Q	Yes	Yes	No	Yes					
ZYN366	Yes	Yes	No	Yes					

DNA Interpretation				
Response Summary			**Participants reporting DNA results: 223**	

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	**181**	**181**	**0**	**181**
No	**0**	**0**	**180**	**0**
Inc	**0**	**0**	**0**	**0**
No Interpretation	**0**	**0**	**0**	**0**
No Response	**5**	**5**	**6**	**5**

Participants analyzing DNA for database purposes only: 37

Additional Comments

TABLE 5

WebCode	Additional Comments
2DH423	NR = no results
2PZLVV	NR indicates no results
2Z4BZW	NR= No result
3DNA44	NR = No Results
3P4WGB	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables. Full profiles were obtained for the epithelial and sperm cell fractions; however, there was incomplete separation. Allele calls from both donors were observed in these mixtures. This is a normal observation routinely seen in casework.
3ZY8MW	NR = No Result
4M8Z6M	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables.
4VF44M	NR = No Results
4YDRGN	Per laboratory protocol, Y-STR's were only performed on the sperm fraction of Item 4. Item 3: Y-screening indicated that no male DNA was detected. Item 4: Y-screening indicated the presence of male DNA. [ ] = peaks below stochastic threshold
6936LK	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables. Full profiles were obtained for the epithelial and sperm cell fractions; however, there was incomplete separation. Allele calls from both donors were observed in the epithelial cell fraction (4epi victim's underwear). This is a normal observation routinely seen in casework.
6HKCWN	N.D.: Not Detected. Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification.
6QEGPP	N.D.: Not Detected. Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification.
6QMVJY	NT = not tested
6Y2GUN	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables. Full profiles were obtained for the epithelial and sperm cell fractions; however, there was incomplete separation. Allele calls from both donors were observed in these mixtures. This is a normal observation routinely seen in casework.
7AAABM	Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification.

TABLE 5

WebCode	Additional Comments
7AGQX8	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables. Full profiles were obtained for the epithelial and sperm cell fractions; however, there was incomplete separation. Allele calls from both donors were observed in these mixtures. This is a normal observation routinely seen in casework. Y-STR sample preparation and laboratory processing were performed by [Name]. Interpretation was performed by this analyst.
7B6XRX	NR = No Results
8L4F7C	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks. Every allele given weight as a possible true allele during the probabilistic genotyping deconvolution that is present in the table in the STRmix output file was reported. This includes any potential stutter peaks that may have been given weight during the development of the genotype probability distribution table.
8P4Q2C	Genotype data was not entered for this proficiency because this analyst is only qualified/authorized to process samples through differential extraction at this time. Additionally, this analyst is qualified to prepare non-differential samples for extraction using an automated workflow. Therefore, a manual extraction was performed on the reference samples, a manual differential extraction was performed on the sample from the underwear, and the questioned sample from the pillowcase was prepared for the automated extraction process.
8Y2YG3	Extraction: Item 1 and 2 were extracted using in-situ method. Item 3 and 4 was extracted using chelex extraction method. Quantitation: Item 3 and 4 were quantified using Quantifiler Human DNA Quantification Kit on Applied Biosystems Real Time Polymerase Chain Reaction (PCR) 7500 System. Amplification: item 1 and 2 were amplified using AmpFlSTR Identifiler Direct PCR Amplification Kit. Item 3 and 4 were amplified using AmpFlSTR Identifiler Plus PCR Amplification Kit on 9700 GeneAmp PCR System. Amplification of Y-STR genetic loci was carried out on Item 2 and Item 4 using AmpFlSTR Y-filer PCR Amplification Kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on Applied Biosystems 3500xl Genetic Analyzer with Genemapper ID-X software for all samples. Quality control: Reagent blank, positive control and negative control were carried out throughout the analysis and gave intended results.
9DK7TU	Extraction: Item 1 and Item 2 were extracted using in-situ method while Item 3 were extracted using TECAN FREEDOM EVO 150 and Item 4 were extracted using Chelex Differential extraction method. Quantification: Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification kit. Amplification: Item 1 and Item 2 were amplified using AmFlSTR Identifiler Direct Kit while Item 3 and Item 4 were amplified using AmFlSTR Identifiler Plus STR kit on 9700 GeneAmp PCR System. Y-STR amplification was carried out on Item 2 and Item 4 (sperm cell extract) using AmFlSTR Y-Filer kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on Genetic Analyzer 3500xL for Item 1 and Item 2 (Identifiler Direct), Item 3 and Item 4 (Identifiler Plus). Electrophoresis for Y-Filer was carried out on Genetic Analyzer 3130xl for Item 2 and Item 4 (sperm cell extract)(Y-Filer Kit). Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
9FB9YH	NR = No Results
A7CTDN	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables. Item 4 in this test was extracted by a differential extraction method; however, there was incomplete separation in one or both fractions, resulting in a mixture profile. Allele calls from both donors were observed in the profile due to the incomplete separation.
AEBPAL	NR is defined as "No Results"

TABLE 5

WebCode	Additional Comments
AFRB99	1. Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables. 2. A full profile was obtained for the epithelial cell fraction; however, there was incomplete separation. Allele calls from both donors were observed in this mixture. This is a normal observation routinely seen in casework. 3. Minifiler results are concordant with Investigator 24plex STR results.
AMBG3U	NR = No Result
AUUKAX	NR = No Results
B3XEJF	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables. Full profiles were obtained for the epithelial and sperm cell fractions; however, there was incomplete separation. Allele calls from both donors were observed in these mixtures. This is a normal observation routinely seen in casework.
B3Z4QY	Test participant functions as Y-screen technician and does not perform interpretations.
CKT76E	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks.
CKVWBW	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables. A partial profile was obtained for the epithelial cell fraction of item 4 in this test. The majority of the called alleles of the minor contributor are within the stochastic region; therefore, dropout is occurring for the minor contributor.
CN4RME	This note is pertaining to TH01 of the sperm fraction of item 4: major and minor alleles could not be determined at this locus due to one of the alleles falling below stochastic threshold.
CTQYBM	ND = No DNA detected
CXCJUN	NR = no results
CXWZAQ	Extraction: Item 1 and Item 2 were extracted using in-situ method while Item 3 was extracted using the DNA IQ kit on Tecan Evo 150 and Item 4 using differential extraction. Quantification: Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification kit on QuantStudio5 Real Time PCR. Amplification: Item 1 and Item 2 were amplified using AmFlSTR Identifiler Direct Kit while Item 3 and Item 4 were amplified using AmFlSTR Identifiler Plus STR kit on 9700 GeneAmp PCR System. Y-STR amplification was carried out on Item 2 and Item 4 (sperm cell extract) using AmFlSTR Y-Filer kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on Genetic Analyzer 3500xL for Item 1 and Item 2 (Identifiler Direct), Item 3 and Item 4 (Identifiler Plus). Electrophoresis for Y-Filer was carried out on Genetic Analyzer 3130xl for Item 2 and Item 4 (sperm cell extract). Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
D9VM2T	NR = no results

TABLE 5

WebCode	Additional Comments
DBG36N	Extraction: Item 1 and Item 2 were extracted using in-situ method while Item 3 were extracted using TECAN FREEDOM EVO 150 and Item 4 were extracted using Chelex Differential extraction method. Quantification: Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification kit. Amplification: Item 1 and Item 2 were amplified using AmFlSTR Identifiler Direct Kit while Item 3 and Item 4 were amplified using AmFlSTR Identifiler Plus STR kit on 9700 GeneAmp PCR System. Y-STR amplification was carried out on Item 2 and Item 4 (sperm cells extract) using AmpFlSTR Y-Filer kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on Genetic Analyzer 3500xL for Item 1 and Item 2 (Identifiler Direct), Item 3 and Item 4 (Identifiler Plus). Electrophoresis for Y-Filer was carried out on Genetic Analyzer 3130xl for Item 2 and Item 4(sperm cells extract) (Y-Filer Kit). Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
DGU88U	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables. A partial profile was obtained for the epithelial cell fraction of item 4 in this test. The majority of the called alleles of the minor component are within the stochastic region, therefore, dropout is occurring for the minor contributor.
DLZCUG	Item 2 PPY23 amplification - DYS392 has minor allele 16 at 11.81% peak height of main allele 15. Lab threshold for DYS392 forward stutter is 11.22%. Possible elevated forward stutter as profile does not show indication of second contributor. Results are entered only for GlobalFiler loci as casework reporting is on GlobalFiler loci. Powerplex Fusion 6C is used only for allele verification.
E3NEDW	Test participant functions as Y-screen technician and does not perform interpretations.
E4LRY4	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks. Every allele given weight as a possible true allele during the probabilistic genotyping deconvolution that is present in the table in the STRmix output file was reported. This includes any potential stutter peaks that may have been given weight during the development of the genotype probability distribution table.
E6T4G7	This analyst is only qualified to perform robotic processes including the following: Robot run (Hamilton AutoLys StarPlus automated platform operation) for 040519MR-1_K1, including: Quantification (Quantifiler Duo, 7500, automated set up) Amplification (24plex, Thermal Cycler 9700, automated set up) Capillary Electrophoresis setup (3130XL-2) This analyst is not qualified to interpret DNA data.
FPYYN3	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables. A partial or incomplete profile was obtained for the minor contributor of the epithelial cell fraction of item 01-04-AA in this test. The majority of the called alleles of the minor contributor are within the stochastic region; therefore, dropout is occurring for one contributor.
FW9XVD	N.D.: Not Detected. Results entered are only for GlobalFiler loci as casework reporting is on GlobalFiler loci. PowerPlex Fusion 6C is used only for allele verification
G282L6	Male screening sample preparation and laboratory processing were performed by [Name]. Interpretation was performed by this analyst.
GBWPJT	Test participant functions as Y-screen technician and does not perform interpretations.
GETGP6	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks. Every allele given weight as a possible true allele during the probabilistic genotyping deconvolution that is present in the table in the STRmix output file was reported. This includes any potential stutter peaks that may have been given weight during the development of the genotype probability distribution table.

TABLE 5

WebCode	Additional Comments
HFH6MQ	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results table of Item 4e. This approach may result in at least one stutter peak being included in the DNA Results table of Item 4e. A full profile was obtained from the epithelial cell fraction; however, there was incomplete separation. Some alleles consistent with the sperm fraction donor were detected in the epithelial cell fraction. This is a normal observation routinely seen in casework.
HZPENM	4e, -- Possible additional genetic information may be present, but no additional peaks were detected. The 4e minor is consistent with 4s major male and dashes in 4e indicate data from this male may be dropped out.
J6BGKD	NR = No Results
JBJAYN	NR = No Results
JCFMLF	NR = No Result
JKUCKN	NR = No Result
JNN2GG	NR = No Result. NT = Not Tested.
JTMK6F	NR = no result
JZM46P	Test participant functions as Y-screen technician and does not perform interpretations.
KEC2KK	NR = No Results
KRL8YY	MiniFiler results concordant with Investigator 24Plex results. Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables. A full profile was obtained for the epithelial fraction of sample 4 in this test; however, there was incomplete separation. Allele calls from both donors were observed. This is a normal observation routinely seen in casework.
L67737	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables. Full profiles were obtained for the epithelial and sperm cell fractions; however, there was incomplete separation. Allele calls from both donors were observed in these mixtures. This is a normal observation routinely seen in casework.
L8W89U	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modeling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables.
LBWJ6U	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables.
LFPK4M	Test participant functions as Y-screen technician and does not perform interpretations.
LGJ9MH	4ax1: no additional peaks were detected; detected data is below stochastic threshold; - = possible additional information may be present.
LLUUBB	NR= No Results
LP7289	Y-STR analysis was not performed on sample 1 because no male DNA was detected using Quantifiler Trio. Yfiler results for Item 3 are NR-No Results. Quantifiler Trio results gave a very low T.Y. value of .3 picograms per microliter which is why Y-STR analysis was performed.

TABLE 5

WebCode	Additional Comments
LVFVRK	NR = No results
M99733	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modeling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables. Full profiles were obtained for the epithelial and sperm cell fractions; however, there was incomplete separation. Allele calls from both donors were observed in the epithelial cell fraction. This is a normal observation routinely seen in casework.
MDTW2D	DYS391 in samples 2, 3, and 4 was concordant in both GF and YFP. NR = no results.
MJ8YCU	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for plus and minus stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables.
N2K7XA	NR = No Results
N2UR2B	Item 1 was processed for STRs, but not for Y-STRs. Item 2 was processed for STRs and Y-STRs. Items 3 and 4 were not processed. NR = No Results
P43K4V	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables.
P9N9AF	Brackets indicate minor/less intense alleles. NR = No results
PLU7EF	In item 4 you get a mix with a larger taxpayer and a smaller taxpayer. In the differential extraction of the Item 4 epithelial fraction, stuter and high artifacts were obtained. In the differential extraction of the sp, only male profile was obtained.
RN4HFM	Full profiles were obtained for the epithelial and sperm cell fractions of item 4; however, there was incomplete separation. Allele calls from both donors were observed in these mixtures. This is a normal observation routinely seen in casework. Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables.
RNGG97	NR: No Results
T7UK6G	Extraction: Item 3 and Item 4 were extracted using the Chelex® extraction method. Quantification: Item 3 and Item 4 were quantified using the Quantifiler™ Human DNA Quantification Kit on Applied Biosystems™ 7500 Real-Time PCR Systems. Amplification: Item 1 and Item 2 were amplified using the AmpFLSTR™ Identifiler™ Direct PCR Amplification Kit on Applied Biosystems™ GeneAmp™ PCR System 9700. With the in-situ method, Item 2 was also amplified using the AmpFLSTR™ Yfiler™ PCR Amplification Kit on Applied Biosystems™ GeneAmp™ PCR System 9700. Item 3 and Item 4 were amplified using the AmpFLSTR™ Identifiler™ Plus and Yfiler™ PCR Amplification Kits on Applied Biosystems™ GeneAmp™ PCR System 9700. Electrophoresis: Electrophoresis was carried out on Applied Biosystems™ 3500XL Genetic Analyzer and the data were analysed with GeneMapper® ID-X v1.5 software. Quality Control: Reagent Blank, Positive Control and Negative Control were included throughout the analysis and all gave intended results.
TA29AT	Genotype data was not entered for this proficiency because analyst is only qualified to process samples through DNA extraction at his time. Additionally this analyst is qualified to prepare non differential samples for extractions using automated methods. The questioned sample was prepared in this manner for this proficiency.

TABLE 5

WebCode	Additional Comments
TPEJ2L	Full profiles were obtained for the epithelial and sperm cell fractions; however, there was incomplete separation. Allele calls from both donors were observed in these mixtures. This is a normal observation routinely seen in casework. Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables.
U9C3Z8	Extraction: Item 1 and Item 2 were extracted using in-situ method while Item 3 and 4 were extracted using Chelex extraction method. Quantification: DNA quantitation for Item 3 and 4 were carried out using the Quantifiler Human DNA Quantification kit with Applied Biosystem Real Time Polymerase Chain Reaction (PCR) 7500 system. Amplification: Item 1 and Item 2 were amplified using AmFlSTR Identifiler Direct Kit while Item 3 and Item 4 were amplified using AmFlSTR Identifiler Plus kit on 9700 GeneAmp PCR System. Y-STR (Y-Short Tandem Repeat) amplification was carried out on Item 2 and Item 4 using AmFlSTR Y-Filer kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on Genetic Analyzer 3500xl for Item 1 and Item 2 (Identifiler Direct), Item 3 and Item 4 (Identifiler Plus). Electrophoresis for Y-Filer was carried out on Genetic Analyzer 3500xl for Item 2 and Item 4. Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
UARTD4	Key: NR = No Result
UFJX9T	STRmix probabilistic genotyping software was used to aid in the determination of genotype combinations. No stutter filters are applied when using this software and it is acknowledged that some stutter peaks can be recognized as true peaks. Every allele given weight as a possible true allele during the probabilistic genotyping deconvolution that is present in the table in the STRmix output file was reported. This includes any potential stutter peaks that may have been given weight during the development of the genotype probability distribution table.
UG86ZX	NR = no results
VMYWFC	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modelling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables. A partial profile was obtained for item 4 EC in this test. The majority of the called alleles in the minor contributor are within the stochastic region; therefore, dropout is occurring for minor. Profiles (items #1 and 3) were interpreted using both Qiagen Investigator 24plex QS and Minifiler kits. Allele calls from both kits were used so additional alleles may be present.
VV2UUA	1. According the Likelihood obtained through statistical analysis, the genetic profile obtained from the items 1 and 3 is 10,615,501,816,731,500,000,000,000,000,000,000 TIMES MOST PROBABLE THAT BOTH PROFILES CORRESPOND TO THE SAME BIOLOGICAL ORIGIN OR PROCEED FROM THE SAME PERSON, in comparison with other people not tested and not sampled within the study population. 2. According the Likelihood obtained through statistical analysis, it was concluded the genetic profile from item 1 and item 3, are 1,779,893,539,674,940,000,000,000, TIMES MOST PROBABLE TO BELONG TO ONE OF THE TWO CONTRIBUTORS to a DNA mixture in relation with the genetic profile from item 4 and between other people not tested and not sampled within the study population. 3. According the Likelihood obtained through statistical analysis, it was concluded the genetic profile from item 2 is 820,514,803,655,806,000,000,000,000 TIMES MOST PROBABLE TO BELONG TO ONE OF THE TWO CONTRIBUTORS to a DNA mixture in relation with the genetic profile from item 4 and between other people not tested and not sampled within the study population. 4. After a comparative study of the genetic profiles obtained from item 2 and 3, it was concluded both samples EXCLUDE EACH ONES TO BELONG TO THE SAME PERSON, due to the genetic information obtained do not match with all and each of the human markers of identification used. The Software used for the statistical analysis was GFF v2.7.5 beta. The frequencies used for the statistical analysis were obtained from: [Country Population Database].
WG8BNG	Male screening sample preparation and laboratory processing were performed by [Name]. Interpretation was performed by this analyst.

TABLE 5

WebCode	Additional Comments
WQ6K38	Item 4: e.cell fraction - A major contributor to the mixture has been determined at the following loci: D3S1358, vWA, D16S539, CSF1PO, TPOX, Amelogenin, D8S1179, D21S11, D18S51, D2S441, D19S433, TH01, FGA, D22S1045, D5S818, D13S317, D7S820, SE33, D10S1248, D1S1656, D12S391 and D2S1338.
WZ92CP	Y-STR not performed on Item 1 because it is the female reference sample.
X8X796	The extract from a cutting of the blood on the Suspect's pillowcase (Item 3A) was tested for the presence of human blood using the ABAcard HemaTrace test. Human blood was detected on Item 3A. NOTE: the HemaTrace test is known to cross-react with some species of the Mustelidae family and with higher primates.
XY32GP	Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modeling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables.
YG9QLR	NR = no results
YU3CDM	Male screening sample preparation, laboratory processing, and interpretation were performed by this analyst. Male screening was performed on Items 3 and 4 using the Plexor HY quantification kit. Information from the analysis was used to determine the presence of male DNA on Items 3 and 4. Evidence profiles were interpreted using a probabilistic genotyping approach. STRmix software was used to aid interpretation, which includes biological modeling for forward and reverse stutter. Any allele included in a proposed, weighted genotype combination in the STRmix output was reported in the DNA Results tables of this form. This approach may result in at least one stutter peak being included in the DNA Results tables. Full profiles were obtained for the epithelial and sperm cell fractions; however, there was incomplete separation. Allele calls from both donors were observed in these mixtures. This is a normal observation routinely seen in casework.
ZLJ2BZ	Extraction: Item 1 and Item 2 were extracted using in-situ method while Item 3 were extracted using TECAN FREEDOM EVO 150 and Item 4 were extracted using Chelex Differential extraction method. Quantification: Item 3 and Item 4 were quantified using Quantifiler Human DNA Quantification kit. Amplification: Item 1 and Item 2 were amplified using AmFlSTR Identifiler Direct Kit while Item 3 and Item 4 were amplified using AmFlSTR Identifiler Plus STR kit on 9700 GeneAmp PCR System. Y-STR amplification was carried out on Item 2 and Item 4 (sperm cell extract) using AmFlSTR Y-Filer kit on 9700 GeneAmp PCR System. Electrophoresis: Electrophoresis was carried out on Genetic Analyzer 3500xL for Item 1 and Item 2 (Identifiler Direct), Item 3 and Item 4 (Identifiler Plus). Electrophoresis for Y-Filer was carried out on Genetic Analyzer 3130xl for Item 2 and Item 4 (sperm cell extract) (Y-Filer Kit). Quality Control: Reagent blank, Positive Control and Negative Control were carried out through analysis and all gave intended results.
ZYN366	NOTE: CHROMOSOME Y STUDY AND DIFFERENTIAL EXTRACTION ARE NOT INCLUDED IN THE SCOPE OF THIS LABORATORY.

-End of Report-
(Appendix may follow)

Test No. 19-5802: DNA-Semen

DATA MUST BE SUBMITTED BY **May 6, 2019, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234D   WebCode: VEGPFY

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 the potential sexual assault of a female victim. The victim claims as she was walking home a male assailant pulled her into a car at knifepoint. The assailant then drove her to his house where he beat and sexually assaulted her. After the assault the suspect drove the victim to another location and dropped her off. The victim went to the nearest house and asked for help. The victim was able to provide the license plate of the suspect's car and police were able to identify a suspect. Investigators are submitting a stain from a pillowcase in the suspect's house (Item 3) and a stain from underwear (Item 4) the victim was wearing. Screening has been performed on both samples with the following results: Item 3 (pillowcase) is positive for blood, and Item 4 (underwear) is positive for blood and semen. Also collected were known blood samples from the female victim (Item 1) and the male suspect (Item 2).

Items Submitted (Sample Pack S2):

Item 1: Known blood from the female victim
Item 2: Known blood from the male suspect
Item 3: Questioned blood from suspect's pillowcase (brown)
Item 4: Questioned blood and semen mixture from victim's underwear (off-white)

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 [ ].

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): [   ]

Did you perform a differential extraction of Item 3?   YES ○   NO ○

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

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

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 [   ]

Did you perform a differential extraction of Item 3?   YES ○   NO ○

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

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

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):

Did you perform a differential extraction of Item 4?   YES ○   NO ○

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

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

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

Did you perform a differential extraction of Item 4?   YES ○   NO ○

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

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

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.

Did you perform a differential extraction of Item 3?   Yes ○   No ○

Did you perform a differential extraction of Item 4?   Yes ○   No ○

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

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)