



DNA Parentage Test No. 23-5871/6

Summary Report

Each participant received a sample set consisting of four blood samples representing a paternity case. Samples were collected from a mother, a son, and two potential fathers. Participants were requested to analyze the samples using their existing protocols. The test also included a paper kinship exercise where participants were requested to evaluate the provided DNA profiles and determine if a half-sibling relationship claim was supported. Data were returned from 69 participants and are compiled into the following tables:

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This report contains the data received from the participants in this test. Since these participants are located in many countries around the world, and it is their option how the samples are to be used (e.g., training exercise, known or blind proficiency testing, research and development of new techniques, etc.), the results compiled in the Summary Report are not intended to be an overview of the quality of work performed in the profession and cannot be interpreted as such. The Summary Comments are included for the benefit of participants to assist with maintaining or enhancing the quality of their results. These comments are not intended to reflect the general state of the art within the profession.

Participant results are reported using a randomly assigned "WebCode". This code maintains participant's anonymity, provides linking of the various report sections, and will change with every report.

Manufacturer's Information

Each sample set consisted of known blood samples from four individuals (Items 1-4), a mother, a son, and two potential fathers, provided on either FTA™ Micro Cards or swabs. Participants were requested to analyze these items using their existing protocols. Also included with this test was a kinship exercise that consisted of autosomal DNA profiles from two individuals for comparison. Participants were requested to determine if a half-sibling relationship claim was supported following the review of these profiles.

SAMPLE PREPARATION: All items were prepared from human whole blood which was drawn into EDTA tubes. Each FTA™ Micro Card was spotted with 75 µL of blood, while each swab (two swabs per item) was spotted with 100 µL of blood. Item 1 was created from a female (mother) donor. Item 2 was created from a male (son) donor. Item 3 was created from a male donor who was the biological father of the Item 2 male, and Item 4 was created from a male donor who was not the biological father of the Item 2 male. The items were prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on May 30, 2023.

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

KINSHIP EXERCISE: This exercise included allelic results representing a half-sibling relationship.

VERIFICATION: All predistribution laboratories confirmed the manufacturer's expected associations. Consistent allelic results and associations were reported across both substrates.

Key to Test Substrates

5871 - FTA™ Micro Cards

5876 - Swabs

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	14,16	23,25	11,11.3	15,17	10,11	11,15
	9,12	13,15	15,15	19,22	8,12	9,13
	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19	13,16	5,19	16,31.2	6,6	8,11
	15,17	NM	NM	NM	NM	NM
2	15,16	22,23	10,11.3	17,17	11,13	11,20
	9,10	13,13	14,15	17,22	8,10	10,13
	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22	13,13	5,7	16,31.2	6,6	8,8
	17,17	11	*	*	2	
3	14,15	22,24	10,14	17,17	11,13	11,20
	10,12	13,13	13,14	17,22	10,11	10,11
	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26	11,13	7,10	16,30.2	6,6	8,10
	17,17	11	*	*	2	
4	17.3,18.3	17,17	10,14	16,18	11,12	12,19
	9,11	13,13	13,16	18,20	8,9	9,11
	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20	9,14	11,11	26.2,29.2	6,9	8,8
	17,17	10	*	*	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	35,36	16	12,14	13	29	24	11	13	13
	14	12	13	19	31	16	18	10	23
	38	12	13	17	18	23	23	10	12
3	35,36	16	12,14	13	29	24	11	13	13
	14	12	13	19	31	16	18	10	23
	38	12	13	17	18	23	23	10	12
4	35,37	14	11,14	12	28	24	10	13	13
	15	12	13	19	31	16	16	11	22
	37	12	14	18	18	22	23	10	11

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

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

Paternity Indices

Mean Paternity Index results compiled from predistribution laboratories and a consensus of at least 10 participants.

Item - Database

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					

3PI - FBI PopStats

2.99-3.62	6.11-7.63	0.115-2.58	3.56-11.1	2.58-7.17	*
1.13-2.23	2.46-3.82	0.775-2.23	3.62-9.84	2.08-8.7	1.31-4.85
2.5-4.35	1.89-2.85	8.16-24	1.09-13.3	-	1.79-1.97
2.19-3.42	*	*	6.13-7.56	3.65-5.15	0.743-1.11
3.09-5.43					

3PI - Grand Mean \pm 3STD Range**

2.13-4.81	0-18.1	0.187-3.13	1.25-9.82	1.19-7.23	*
0-44.7	2.36-4.56	1.12-1.86	3.02-9.19	0.275-10.4	0-11.7
1.35-4.8	1.19-3.05	0-41.8	1.3-10.2	-	0.719-2.72
0-109	1.66-4.69	0.802-8.76	1.47-11.1	1.43-7.21	0.439-1.62
3.21-4.82					

3PI - NIST-STRBASE

1.28-5.69	4.6-13.2	0.514-2.82	4.22-6.2	2.84-5.88	*
0.828-2.6	2.5-4.94	0.499-2.72	3.97-8.64	1.56-8.83	0.607-6.42
1.64-4.71	1.26-2.99	0.37-43.4	1.67-8.54	-	1.25-2.35
1.64-4.32	2.69-4.11	3.16-5.17	1.82-10.7	1.57-7.23	0.902-1.13
3.18-4.67					

4PI - Grand Mean \pm 3STD Range**

0-0.00251	0-4.72	0.264-3.18	0-3.49	0-2.2	*
0-1.28	2.29-4.56	0-0.0024	0-0.00534	0-3.3	0-1.98
0-2.57	0.376-1.84	0-16.6	0-0.00248	-	0-1.17
0-2.16	*	*	0-0.0118	0.699-3.78	1.32-2.54
3.03-4.92					

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

**These ranges are provided to allow participants that utilized databases other than the one(s) listed above to review their results. Following AABB guidelines, ranges were determined by taking the grand mean of all data submitted for the associated locus and calculating 3 standard deviations above and below that value. Data values are presented in three significant figures. Data values less than zero are presented as "0."

Summary Comments

The DNA Parentage test was designed to allow participants to assess their proficiency in the analysis and interpretation of four known blood samples, along with the determination of paternity. Item 1 was created from a female (mother) donor. Item 2 was created from a male (son) donor. Item 3 was created from a male donor who was the biological father of the Item 2 male, and Item 4 was created from a male donor who was not the biological father of the Item 2 male. Participants were requested to analyze the items and provide allelic and statistical results, as well as relationship conclusions. The test also included a paper kinship exercise where participants were requested to evaluate the provided DNA profiles and report the kinship index and relationship conclusions. (Refer to the Manufacturer's Information for preparation details)

DNA Analysis

All participants were able to obtain full STR profiles from all four items. Consistent results were achieved by all participants, with the exception of three participants. For YSTR results, all participants were able to obtain full profiles. Consistent results were achieved by all participants, with the exception of two participants.

Paternity DNA Statistics

All but one participant reported that the source of Item 3 could not be excluded as the biological father of Item 2. The remaining participant did not respond. Of the participants that reported probability of paternity values, all but one reported 99.99% or higher.

Kinship DNA Statistics

Thirty-eight participants submitted a response for the paper kinship exercise. For the loci likelihood ratio data, nine participants reported extreme data in comparison to the calculated mode, six of which reported this data at multiple loci.

Of the 38 participants, 29 reported a combined Kinship Index between 500 and 504.6887. Thirty-four participants reported that the claim of a half-sibling relationship (African American) was supported, two participants reported that the relationship claim was not supported, and two reported "Inconclusive."

STR Amplification Kit(s) & Results

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
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

2JP2QY-5871	Verifiler Express					
	14,16	23,25	11,11.3	15,17	10,11	11,15
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19	13,16	5,19		6,6	8,11
	15,17					
3BTN7P-5871	PowerPlex®					
		23,25		15,17	10,11	
	9,12	13,15			8,12	9,13
1	17,23	14,15	29,34.2		X,X	12,12
	19,19	13,16	5,19		6,6	8,11
	15,17					
3M9D6U-5871	PowerPlex® Fusion					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19	13,16	5,19		6	8,11
	15,17	NR				
3NQD3-5876	GlobalFiler™					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19			16,31.2	6,6	8,11
	15,17					
3QN2M7-5876	PowerPlex® 21					
	14,16	23,25		15,17	10,11	11,15
	9,12	13,15		19,22	8,12	9,13
1	17,23	14,15	29,34.2		X	12
	19	13,16	5,19		6	8,11
	15,17					
3VF94T-5871	PowerPlex® 21					
	14,16	23,25		15,17	10,11	11,15
	9,12	13,15		19,22	8,12	9,13
1	17,23	14,15	29,34.2		X,X	12,12
	19,19	13,16	5,19		6,6	8,11
	15,17					

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

48RZ3M-5876	GlobalFiler™ Express					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19			16,31.2	6,6	8,11
	15,17					
4FL9MD-5876	GlobalFiler™					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19			16,31.2	6	8,11
	15,17					
4KQ2AZ-5876	Identifiler® Plus, GlobalFiler™ PCR Amplification					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19			16,31.2	6,6	8,11
	15,17	NR			NR	
6ABCGJ-5871	ANDE RapidDNA					
	14,16	23,25	11,11.3	15,17	10,11	11,15
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16		12
	19		5,19		6	8,11
6E6BVE-5876	GlobalFiler™					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19			16,31.2	6	8,11
	15,17					
6R3D3R-5876	PowerPlex® Fusion System, Qiagen HDplex (GeneMapper ID v. 3.2.1)					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19	13,16	5,19	16,31.2	6,6	8,11
	15,17					

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

6U2LK7-5876	PowerPlex® ESI 16 Fast					
	14,16	23,25	11,11.3	15,17		
		13,15	15	19,22		9,13
1	17,23	14,15	29,34.2	16	X	
	19				6	
	15,17					
7JVZW4-5876	GlobalFiler™					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19			16,31.2	6	8,11
	15,17					
86A38T-5871	GlobalFiler™					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19			16,31.2	6	8,11
	15,17					
99RK3J-5871	GlobalFiler™					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19			16,31.2	6	8,11
	15,17					
9HUP9E-5876	GlobalFiler™ Express					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19			16,31.2	6	8,11
	15,17					
A4RVXG-5871	GlobalFiler™					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19			16,31.2	6	8,11
	15,17					

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

AGERET-5871	Identifiler®					
		23,25		15,17	10,11	
		9,12	13,15		8,12	9,13
1		17,23	14,15	29,34.2	X,X	12,12
		19,19			6,6	8,11
		15,17				
B7C6KM-5871	GlobalFiler™					
		23,25	11,11.3	15,17	10,11	
		9,12	13,15	15	19,22	8,12
1		17,23	14,15	29,34.2	16	X
		19		16,31.2	6	8,11
		15,17				
BKQCHK-5871	PowerPlex® 21					
		23,25		15,17	10,11	11,15
		9,12	13,15	19,22	8,12	9,13
1		17,23	14,15	29,34.2	X,X	12,12
		19,19	13,16	5,19	6,6	8,11
		15,17				
BTUJMP-5871	GlobalFiler™ (ForeStatistics)					
		23,25	11,11.3	15,17	10,11	
		9,12	13,15	15	19,22	8,12
1		17,23	14,15	29,34.2	16	X
		19		16,31.2	6	8,11
		15,17				
BXHYRL-5871	Investigator® 24plex					
		23,25	11,11.3	15,17	10,11	
		9,12	13,15	15,15	19,22	8,12
1		17,23	14,15	29,34.2	16,16	X,X
		19,19		16,31.2	6,6	8,11
		15,17				
DM3W6P-5871	GlobalFiler™					
		23,25	11,11.3	15,17	10,11	
		9,12	13,15	15,15	19,22	8,12
1		17,23	14,15	29,34.2	16,16	X,X
		19,19		16,31.2	6,6	8,11
		15,17				

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

EVTYLQ-5871	PowerPlex® ESX 17, PowerPlex®Fusion					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19	13,16	5,19	16,31.2	6,6	8,11
	15,17					
F3GNEB-5871	PowerPlex® Fusion6C					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19	13,16	5,19	16,31.2	6,6	8,11
	15,17					
G8QJFP-5871	GlobalFiler™ Express					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19			16,31.2	6,6	8,11
	15,17					
GAFQZM-5876	GlobalFiler™					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19			16,31.2	6,6	8,11
	15,17	no results			no results	
GL6PQP-5876	GlobalFiler™, Yfiler					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19			16,31.2	6,6	8,11
	15,17	Not Detected			No Result	
GL7PHC-5871	PowerPlex® 5C					
	14,16	23,25	11,11.3	15,17	10,11	--
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19	13,16	5,19	--	6	8,11
	15,17	--	--	--	--	

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

GLPBE9-5876	GlobalFiler™					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19			16,31.2	6	8,11
	15,17					
HEXMX9-5876	Identifiler®					
		23,25		15,17	10,11	
	9,12	13,15			8,12	9,13
1	17,23	14,15	29,34.2		X,X	12,12
	19,19				6,6	8,11
	15,17					
HNP4LC-5871	PowerPlex® Fusion					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19	13,16	5,19		6	8,11
	15,17	NR				
HXEKLE-5871	Investigator® 24plex					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19			16,31.2	6	8,11
	15,17					
JCABX3-5876	PowerPlex® Fusion 5C, Verifiler Plus					
	14,16	23,25	11,11.3	15,17	10,11	11,15
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19	13,16	5,19		6	8,11
	15,17					
JDKDK2-5876	GlobalFiler™ Express					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19			16,31.2	6,6	8,11
	15,17					

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

K2E3VF-5871	GlobalFiler™ (ForeStatistics)					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19			16,31.2	6	8,11
	15,17					
LEUTB8-5871	GlobalFiler™					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19			16,31.2	6	8,11
	15,17					
LNTXU9-5876	PowerPlex® CS7, Verifiler Express, Investigator HDplex, SureID 27comp					
	14,16	23,25	11,11.3	15,17	10,11	11,15
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19	13,16	5,19	16,31.2	6,6	8,11
	15,17					
LYHGHE-5871	GlobalFiler™					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19			16,31.2	6	8,11
	15,17					
MT9KCJ-5876	PowerPlex® Fusion					
	14,16	23,25	11,11.3	15,17	10,11	-
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19	13,16	5,19	-	6	8,11
	15,17	-	-	-	-	
N42L4E-5876	GlobalFiler™					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19			16,31.2	6,6	8,11
	15,17	NR			NR	

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

NWZBQU-5871 GlobalFiler Express

	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19			16,31.2	6,6	8,11
	15,17	F,F			F,F	

PAK7N7-5871 GlobalFiler™

	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X,X	12
	19			16,31.2	6	8,11
	15,17					

PCC4YX-5871 PowerPlex® 21

	14,16	23,25		15,17	10,11	11,15
	9,12	13,15		19,22	8,12	9,13
1	17,23	14,15	29,34.2		X,X	12,12
	19,19	13,16	5,19		6,6	8,11
	15,17					

PV49J6-5871 GlobalFiler™ Express

	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19			16,31.2	6	8,11
	15,17	NR			NR	

QBVAV3-5871 GlobalFiler™

	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19			16,31.2	6,6	8,11
	15,17	-			-	

QTKPGN-5871 VERIFILER PLUS

	14,16	23,25	11,11.3	15,17	10,11	11,15
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19	13,16	5,19		6,6	8,11
	15,17					

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

QWUJAX-5871	PowerPlex® ESI 16 Fast system					
	14,16	23,25	11,11.3	15,17		
		13,15	15	19,22		9,13
1	17,23	14,15	29,34.2	16	X	
	19				6	
	15,17					
RC94B3-5871	PowerPlex® 21					
	14,16	23,25		15,17	10,11	11,15
	9,12	13,15		19,22	8,12	9,13
1	17,23	14,15	29,34.2		X,X	12,12
	19,19	13,16	5,19		6,6	8,11
	15,17					
RDPLUC-5876	PowerPlex® Fusion6C, GlobalFiler™ (bsSEAL)					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19	13,16	5,19	16,31.2	6,6	8,11
	15,17					
RHAEL2-5871	PowerPlex® Fusion 6C					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19	13,16	5,19	16,31.2	6,6	8,11
	15,17					
RJ3A64-5871	PowerPlex® 21					
	14,16	23,25		15,17	10,11	11,15
	9,12	13,15		19,22	8,12	9,13
1	17,23	14,15	29,34.2		X,X	12,12
	19,19	13,16	5,19		6,6	8,11
	15,17					
TH4JEF-5871	GlobalFiler™ Express					
	14,16	23,25	11,11.3	15,17	10,11	
	9,11	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X,X	12
	19			16,31.2	6	8,11
	15,17	NM			NM	

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

TKTPYC-5876	GlobalFiler™, MiniFiler					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19			16,31.2	6,6	8,11
	15,17	No Results			No Results	
TPNLLH-5871	PowerPlex® Fusion 5C					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19	13,16	5,19		6,6	8,11
	15,17					
TUY2LT-5876	GlobalFiler™ Express					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19			16,31.2	6	8,11
	15,17					
UNWDC3-5871	GlobalFiler™ IQC (GenoProof software)					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19			16,31.2	6,6	8,11
	15,17	-			-	
WC8XZA-5871	Investigator® 24plex GO!					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19			16,31.2	6,6	8,11
	15,17					
WJMLQ6-5871	PowerPlex® Fusion (Gene Analysen)					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2		X	12
	19	13,16	5,19		6	8,11
	15,17					

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

WWGHXY-5871 PowerPlex® FUSION, POWER PLEX ESX17

	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19	13,16	5,19	16,31.2	6,6	8,11
	15,17					

WXMKGM-5876 GlobalFiler™

	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19			16,31.2	6	8,11
	15,17	NR			NR	

X922LY-5871 PowerPlex® Fusion

	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19	13,16	5,19		6	8,11
	15,17	NR				

XC6P6V-5871 GlobalFiler™

	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19			16,31.2	6,6	8,11
	15,17					

YCYV4Z-5876 PowerPlex® Fusion 6C

	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19	13,16	5,19	16,31.2	6	8,11
	15,17					

YE7ZV4-5876 GlobalFiler™ IQC

	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15,15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16,16	X,X	12,12
	19,19			16,31.2	6,6	8,11
	15,17					

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

YPKEDW-5871	PowerPlex® Fusion					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19	13,16	5,19		6	8,11
	15,17	NR				
Z7QW3V-5871	PowerPlex® 21					
	14,16	23,25		15,17	10,11	11,15
	9,12	13,15		19,22	8,12	9,13
1	17,23	14,15	29,34.2		X,X	12,12
	19,19	13,16	5,19		6,6	8,11
	15,17					
ZUEJQZ-5871	GlobalFiler™					
	14,16	23,25	11,11.3	15,17	10,11	
	9,12	13,15	15	19,22	8,12	9,13
1	17,23	14,15	29,34.2	16	X	12
	19			16,31.2	6	8,11
	15,17					

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

2JP2QY-5871	Verifiler Express					
		15,16	22,23	10,11.3	17,17	11,13
		9,10	13,13	14,15	17,22	8,10
2		15,17	14,15	30.2,34.2	16,17	X,Y
		19,22	13,13	5,7		6,6
		17,17				2
3BTN7P-5871	PowerPlex®					
			22,23		17,17	11,13
		9,10	13,13			8,10
2		15,17	14,15	30.2,34.2		X,Y
		19,22	13,13	5,7		6,6
		17,17				
3M9D6U-5871	PowerPlex® Fusion					
		15,16	22,23	10,11.3	17	11,13
		9,10	13	14,15	17,22	8,10
2		15,17	14,15	30.2,34.2	16,17	X,Y
		19,22	13	5,7		6
		17	11			8
3NQD3-5876	GlobalFiler™					
		15,16	22,23	10,11.3	17,17	11,13
		9,10	13,13	14,15	17,22	8,10
2		15,17	14,15	30.2,34.2	16,17	X,Y
		19,22			16,31.2	6,6
		17,17	11			2
3QN2M7-5876	PowerPlex® 21					
		15,16	22,23		17	11,13
		9,10	13		17,22	8,10
2		15,17	14,15	30.2,34.2		X,Y
		19,22	13	5,7		6
		17				8
3VF94T-5871	PowerPlex® 21					
		15,16	22,23		17,17	11,13
		9,10	13,13		17,22	8,10
2		15,17	14,15	30.2,34.2		X,Y
		19,22	13,13	5,7		6,6
		17,17				8,8

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

48RZ3M-5876	GlobalFiler™ Express					
	15,16	22,23	10,11.3	17,17	11,13	
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6,6	8,8
	17,17	11			2	
4FL9MD-5876	GlobalFiler™					
	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6	8
	17	11			2	
4KQ2AZ-5876	Identifiler® Plus, GlobalFiler™ PCR Amplification					
	15,16	22,23	10,11.3	17,17	11,13	
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6,6	8,8
	17,17	11			2	
6ABCGJ-5871	ANDE RapidDNA					
	15,16	22,23	10,11.3	17	11,13	11,20
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22		5,7		6	8
	17	11	17	18		
6E6BVE-5876	GlobalFiler™					
	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6	8
	17	11			2	
6R3D3R-5876	PowerPlex® Fusion System, PowerPlex Y23, Qiagen HDplex (GeneMapper ID v.3.2.1)					
	15,16	22,23	10,11.3	17,17	11,13	
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22	13,13	5,7	16,31.2	6,6	8,8
	17,17	11	17	18		

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

6U2LK7-5876	PowerPlex® ESI 16 Fast					
	15,16	22,23	10,11.3	17		
		13	14,15	17,22		10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	
	19,22				6	
	17					
7JVZW4-5876	GlobalFiler™					
	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6	8
	17	11			2	
86A38T-5871	GlobalFiler™					
	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6	8
	17	11			2	
99RK3J-5871	GlobalFiler™					
	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6	8
	17	11			2	
9HUP9E-5876	GlobalFiler™ Express					
	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6	8
	17	11			2	
A4RVXG-5871	GlobalFiler™					
	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6	8
	17	11			2	

TABLE 1

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

Item 2 - STR Results

AGERET-5871	Identifiler®					
		22,23		17,17	11,13	
		9,10	13,13		8,10	10,13
2		15,17	14,15	30.2,34.2	X,Y	11,12
		19,22			6,6	8,8
		17,17				
B7C6KM-5871	GlobalFiler™					
		22,23	10,11.3	17	11,13	
		9,10	13	14,15	8,10	10,13
2		15,17	14,15	30.2,34.2	X,Y	11,12
		19,22		16,31.2	6	8
		17	11		2	
BKQCHK-5871	PowerPlex® 21					
		22,23		17,17	11,13	11,20
		9,10	13,13	17,22	8,10	10,13
2		15,17	14,15	30.2,34.2	X,Y	11,12
		19,22	13,13	5,7	6,6	8,8
		17,17				
BTUJMP-5871	GlobalFiler™ (ForeStatistics)					
		22,23	10,11.3	17	11,13	
		9,10	13	14,15	8,10	10,13
2		15,17	14,15	30.2,34.2	X,Y	11,12
		19,22		16,31.2	6	8
		17	11		2	
BXHYRL-5871	Investigator® 24plex					
		22,23	10,11.3	17,17	11,13	
		9,10	13,13	14,15	8,10	10,13
2		15,17	14,15	30.2,34.2	X,Y	11,12
		19,22		16,31.2	6,6	8,8
		17,17	11			
DM3W6P-5871	GlobalFiler™					
		22,23	10,11.3	17,17	11,13	
		9,10	13,13	14,15	8,10	10,13
2		15,17	14,15	30.2,34.2	X,Y	11,12
		19,22		16,31.2	6,6	8,8
		17,17	11		2	

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

EVTYLQ-5871	PowerPlex® ESX 17, PowerPlex®Fusion					
	15,16	22,23	10,11.3	17,17	11,13	
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22	13,13	5,7	16,31.2	6,6	8,8
	17,17	11				
F3GNEB-5871	PowerPlex® Fusion6C					
	15,16	22,23	10,11.3	17,17	11,13	
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22	13,13	5,7	16,31.2	6,6	8,8
	17,17	11	17	18		
G8QJFP-5871	GlobalFiler™ Express					
	15,16	22,23	10,11.3	17,17	11,13	
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6,6	8,8
	17,17	11			2	
GAFQZM-5876	GlobalFiler™					
	15,16	22,23	10,11.3	17,17	11,13	
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6,6	8,8
	17,17	11			2	
GL6PQP-5876	GlobalFiler™					
	15,16	22,23	10,11.3	17,17	11,13	
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6,6	8,8
	17,17	11			2	
GL7PHC-5871	PowerPlex® 5C					
	15,16	22,23	10,11.3	17	11,13	--
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22	13	5,7	--	6	8
	17	11	--	--	--	

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

GLPBE9-5876	GlobalFiler™					
	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6	8
	17	11			2	
HEXMX9-5876	Identifiler®					
		22,23		17,17	11,13	
	9,10	13,13			8,10	10,13
2	15,17	14,15	30.2,34.2		X,Y	11,12
	19,22				6,6	8,8
	17,17					
HNP4LC-5871	PowerPlex® Fusion					
	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22	13	5,7		6	8
	17	11				
HXEKLE-5871	Investigator® 24plex					
	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6	8
	17	11				
JCABX3-5876	PowerPlex® fusion 5C, Verifiler Plus					
	15,16	22,23	10,11.3	17	11,13	11,20
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22	13	5,7		6	8
	17	11			2	
JDKDK2-5876	GlobalFiler™ Express					
	15,16	22,23	10,11.3	17,17	11,13	
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6,6	8,8
	17,17	11			2	

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

K2E3VF-5871	GlobalFiler™ (ForeStatistics)					
	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6	8
	17	11			2	
LEUTB8-5871	GlobalFiler™					
	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6	8
	17	11			2	
LNTXU9-5876	PowerPlex® CS7, Verifiler Express, Investigator HDplex, SureID 27comp					
	15,16	22,23	10,11.3	17,17	11,13	11,20
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22	13,13	5,7	16,31.2	6,6	8,8
	17,17				2	
LYHGHE-5871	GlobalFiler™					
	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6	8
	17	11			2	
MT9KCJ-5876	PowerPlex® Fusion					
	15,16	22,23	10,11.3	17	11,13	-
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22	13	5,7	-	6	8
	17	11	-	-	-	
N42L4E-5876	GlobalFiler™					
	15,16	22,23	10,11.3	17,17	11,13	
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6,6	8,8
	17,17	11			2	

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

NWZBQU-5871 GlobalFiler Express

	15,16	22,23	10,11.3	17,17	11,13	
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6,6	8,8
	17,17	11,F			2,F	

PAK7N7-5871 GlobalFiler™

	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6	8
	17	11			2	

PCC4YX-5871 PowerPlex® 21

	15,16	22,23		17,17	11,13	11,20
	9,10	13,13		17,22	8,10	10,13
2	15,17	14,15	30.2,34.2		X,Y	11,12
	19,22	13,13	5,7		6,6	8,8
	17,17					

PV49J6-5871 GlobalFiler™ Express

	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6	8
	17	11			2	

QBVAV3-5871 GlobalFiler™

	15,16	22,23	10,11.3	17,17	11,13	
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6,6	8,8
	17,17	11			2	

QTKPGN-5871 VERIFILER PLUS

	15,16	22,23	10,11.3	17,17	11,13	11,20
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22	13,13	5,7		6,6	8,8
	17,17				2	

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

QWUJAX-5871	PowerPlex® ESI 16 Fast system					
	15,16	22,23	10,11.3	17		
		13	14,15	17,22		10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	
	19,22				6	
	17					
RC94B3-5871	PowerPlex® 21					
	15,16	22,23		17,17	11,13	11,20
	9,10	13,13		17,22	8,10	10,13
2	15,17	14,15	30.2,34.2		X,Y	11,12
	19,22	13,13	5,7		6,6	8,8
	17,17					
RDPLUC-5876	PowerPlex® Fusion6C, GlobalFiler™ (bsSEAL)					
	15,16	22,23	10,11.3	17,17	11,13	
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22	13,13	5,7	16,31.2	6,6	8,8
	17,17	11	17	18	2	
RHAEL2-5871	PowerPlex® Fusion 6C					
	15,16	22,23	10,11.3	17,17	11,13	
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22	13,13	5,7	16,31.2	6,6	8,8
	17,17	11	17	18		
RJ3A64-5871	PowerPlex® 21					
	15,16	22,23		17,17	11,13	11,20
	9,10	13,13		17,22	8,10	10,13
2	15,17	14,15	30.2,34.2		X,Y	11,12
	19,22	13,13	5,7		6,6	8,8
	17,17					
TH4JEF-5871	GlobalFiler™ Express					
	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6	8
	17	11			2	

TABLE 1

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

Item 2 - STR Results

TKTPYC-5876	GlobalFiler™, MiniFiler					
	15,16	22,23	10,11.3	17,17	11,13	
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6,6	8,8
	17,17	11			2	
TPNLLH-5871	PowerPlex® Fusion 5C					
	15,16	22,23	10,11.3	17,17	11,13	
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22	13,13	5,7		6,6	8,8
	17,17	11				
TUY2LT-5876	GlobalFiler™ Express					
	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6	8
	17	11			2	
UNWDC3-5871	GlobalFiler™ IQC (GenoProof software)					
	15,16	22,23	10,11.3	17,17	11,13	
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6,6	8,8
	17,17	11			2	
WC8XZA-5871	Investigator® 24plex GO!					
	15,16	22,23	10,11.3	17,17	11,13	
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6,6	8,8
	17,17	11				
WJMLQ6-5871	PowerPlex® Fusion (Gene Analysen)					
	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2		X,Y	11,12
	19,22	13	5,7		6	8
	17	11				

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

WWGHXY-5871 PowerPlex® FUSION, POWER PLEX ESX17

	15,16	22,23	10,11.3	17,17	11,13	
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22	13,13	5,7	16,31.2	6,6	8,8
	17,17	11				

WXMKGM-5876 GlobalFiler™

	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6	8
	17	11			2	

X922LY-5871 PowerPlex® Fusion

	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22	13	5,7		6	8
	17	11				

XC6P6V-5871 GlobalFiler™

	15,16	22,23	10,11.3	17,17	11,13	
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6,6	8,8
	17,17	11			2	

YCYV4Z-5876 PowerPlex® Fusion 6C

	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22	13	5,7	16,31.2	6	8
	17	11	17	18		

YE7ZV4-5876 GlobalFiler™ IQC

	15,16	22,23	10,11.3	17,17	11,13	
	9,10	13,13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6,6	8,8
	17,17	11			2	

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

YPKEDW-5871	PowerPlex® Fusion					
	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22	13	5,7		6	8
	17	11				
Z7QW3V-5871	PowerPlex® 21					
	15,16	22,23		17,17	11,13	11,20
	9,10	13,13		17,22	8,10	10,13
2	15,17	14,15	30.2,34.2		X,Y	11,12
	19,22	13,13	5,7		6,6	8,8
	17,17					
ZUEJQZ-5871	GlobalFiler™					
	15,16	22,23	10,11.3	17	11,13	
	9,10	13	14,15	17,22	8,10	10,13
2	15,17	14,15	30.2,34.2	16,17	X,Y	11,12
	19,22			16,31.2	6	8
	17	11			2	

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

2JP2QY-5871	Verifiler Express					
		14,15	22,24	10,14	17,17	11,13
		10,12	13,13	13,14	17,22	10,11
3		15,17	14,14	30.2,32.2	16,17	X,Y
		22,26	11,13	7,10		6,6
		17,17				2
3BTN7P-5871	PowerPlex®					
			22,24		17,17	11,13
		10,12	13,13			10,11
3		15,17	14,14	30.2,32.2		X,Y
		22,26	11,13	7,10		6,6
		17,17				
3M9D6U-5871	PowerPlex® Fusion					
		14,15	22,24	10,14	17	11,13
		10,12	13	13,14	17,22	10,11
3		15,17	14	30.2,32.2	16,17	X,Y
		22,26	11,13	7,10		6
		17	11			8,10
3NQD3-5876	GlobalFiler™					
		14,15	22,24	10,14	17,17	11,13
		10,12	13,13	13,14	17,22	10,11
3		15,17	14,14	30.2,32.2	16,17	X,Y
		22,26			16,30.2	6,6
		17,17	11			2
3QN2M7-5876	PowerPlex® 21					
		14,15	22,24		17	11,13
		10,12	13		17,22	10,11
3		15,17	14	30.2,32.2		X,Y
		22,26	11,13	7,10		6
		17				8,10
3VF94T-5871	PowerPlex® 21					
		14,15	22,24		17,17	11,13
		10,12	13,13		17,22	10,11
3		15,17	14,14	30.2,32.2		X,Y
		22,26	11,13	7,10		6,6
		17,17				8,10

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

48RZ3M-5876	GlobalFiler™ Express					
	14,15	22,24	10,14	17,17	11,13	
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6,6	8,10
	17,17	11			2	
4FL9MD-5876	GlobalFiler™					
	14,15	22,24	10,14	17	11,13	
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6	8,10
	17	11			2	
4KQ2AZ-5876	Identifiler® Plus, GlobalFiler™ PCR Amplification					
	14,15	22,24	10,14	17,17	11,13	
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6,6	8,10
	17,17	11			2	
6ABCGJ-5871	ANDE RapidDNA					
	14,15	22,24	10,14		11,13	11,20
			13,14	17,22	10,11	10,11
3	15,17		30.2,32.2		X,Y	11,12
			7,10	16,30.2	6	8,10
		11	17	18		
6E6BVE-5876	GlobalFiler™					
	14,15	22,24	10,14	17	11,13	
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6	8,10
	17	11			2	
6R3D3R-5876	PowerPlex® Fusin System, PowerPlexY23, Qiagen HDPLEX (GeneMapper ID v.3.2.1)					
	14,15	22,24	10,14	17,17	11,13	
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26	11,13	7,10	16,30.2	6,6	8,10
	17,17	11	17	18		

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

6U2LK7-5876	PowerPlex® ESI 16 Fast					
	14,15	22,24	10,14	17		
		13	13,14	17,22		10,11
3	15,17	14	30.2,32.2	16,17	X,Y	
	22,26				6	
	17					
7JVZW4-5876	GlobalFiler™					
	14,15	22,24	10,14	17	11,13	
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6	8,10
	17	11			2	
86A38T-5871	GlobalFiler™					
	14,15	22,24	10,14	17	11,13	
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6	8,10
	17	11			2	
99RK3J-5871	GlobalFiler™					
	14,15	22,24	10,14	17	11,13	
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6	8,10
	17	11			2	
9HUP9E-5876	GlobalFiler™ Express					
	14,15	22,24	10,14	17	11,13	
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6	8,10
	17	11			2	
A4RVXG-5871	GlobalFiler™					
	14,15	22,24	10,14	17	11,13	
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6	8,10
	17	11			2	

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

AGERET-5871	Identifiler®					
		22,24		17,17	11,13	
		10,12	13,13		10,11	10,11
3		15,17	14,14	30.2,32.2	X,Y	11,12
		22,26			6,6	8,10
		17,17				
B7C6KM-5871	GlobalFiler™					
		22,24	10,14	17	11,13	
		10,12	13	13,14	17,22	10,11
3		15,17	14	30.2,32.2	16,17	X,Y
		22,26		16,30.2	6	8,10
		17	11		2	
BKQCHK-5871	PowerPlex® 21					
		22,24		17,17	11,13	11,20
		10,12	13,13	17,22	10,11	10,11
3		15,17	14,14	30.2,32.2	X,Y	11,12
		22,26	11,13	7,10	6,6	8,10
		17,17				
BTUJMP-5871	GlobalFiler™ (ForeStatistics)					
		22,24	10,14	17	11,13	
		10,12	13	13,14	17,22	10,11
3		15,17	14	30.2,32.2	16,17	X,Y
		22,26		16,30.2	6	8,10
		17	11		2	
BXHYRL-5871	Investigator® 24plex					
		22,24	10,14	17,17	11,13	
		10,12	13,13	13,14	17,22	10,11
3		15,17	14,14	30,32.2	16,17	X,Y
		22,26		16,30.2	6,6	8,10
		17,17	11			
DM3W6P-5871	GlobalFiler™ (Qualitytype GenoProof® 3.0.7)					
		22,24	10,14	17,17	11,13	
		10,12	13,13	13,14	17,22	10,11
3		15,17	14,14	30.2,32.2	16,17	X,Y
		22,26		16,30.2	6,6	8,10
		17,17	11		2	

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

EVTYLQ-5871	PowerPlex® ESX 17, PowerPlex®Fusion					
	14,15	22,24	10,14	17,17	11,13	
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26	11,13	7,10	16,30.2	6,6	8,10
	17,17	11				
F3GNEB-5871	PowerPlex® Fusion6C					
	14,15	22,24	10,14	17,17	11,13	
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26	11,13	7,10	16,30.2	6,6	8,10
	17,17	11	17	18		
G8QJFP-5871	GlobalFiler™ Express (Personal software)					
	14,15	22,24	10,14	17,17	11,13	
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6,6	8,10
	17,17	11			2	
GAFQZM-5876	GlobalFiler™					
	14,15	22,24	10,14	17,17	11,13	
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6,6	8,10
	17,17	11			2	
GL6PQP-5876	GlobalFiler™					
	14,15	22,24	10,14	17,17	11,13	
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6,6	8,10
	17,17	11			2	
GL7PHC-5871	PowerPlex® 5C					
	14,15	22,24	10,14	17	11,13	--
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2	16,17	X,Y	11,12
	22,26	11,13	7,10	--	6	8,10
	17	11	--	--	--	

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

GLPBE9-5876	GlobalFiler™					
		14,15	22,24	10,14	17	11,13
		10,12	13	13,14	17,22	10,11
3		15,17	14	30.2,32.2	16,17	X,Y
		22,26			16,30.2	6
		17	11			2
HEXMX9-5876	Identifiler®					
			22,24		17,17	11,13
		10,12	13,13			10,11
3		15,17	14,14	30.2,32.2		X,Y
		22,26				6,6
		17,17				8,10
HNP4LC-5871	PowerPlex® Fusion					
		14,15	22,24	10,14	17	11,13
		10,12	13	13,14	17,22	10,11
3		15,17	14	30.2,32.2	16,17	X,Y
		22,26	11,13	7,10		6
		17	11			8,10
HXEKLE-5871	Investigator® 24plex					
		14,15	22,24	10,14	17	11,13
		10,12	13	13,14	17,22	10,11
3		15,17	14	30.2,32.2	16,17	X,Y
		22,26			16,30.2	6
		17	11			8,10
JCABX3-5876	PowerPlex® Fusion 5C, Verifiler Plus					
		14,15	22,24	10,14	17	11,13
		10,12	13	13,14	17,22	10,11
3		15,17	14	30.2,32.2	16,17	X,Y
		22,26	11,13	7,10		6
		17	11			2
JDKDK2-5876	GlobalFiler™ Express					
		14,15	22,24	10,14	17,17	11,13
		10,12	13,13	13,14	17,22	10,11
3		15,17	14,14	30.2,32.2	16,17	X,Y
		22,26			16,30.2	6,6
		17,17	11			2

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

K2E3VF-5871	GlobalFiler™ (ForeStatistics)					
	14,15	22,24	10,14	17	11,13	
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6	8,10
	17	11			2	
LEUTB8-5871	GlobalFiler™					
	14,15	22,24	10,14	17	11,13	
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6	8,10
	17	11			2	
LNTXU9-5876	PowerPlex® CS7, Verifiler Express, Investigator HDplex, SureID 27comp					
	14,15	22,24	10,14	17,17	11,13	11,20
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26	11,13	7,10	16,30.2	6,6	8,10
	17,17				2	
LYHGHE-5871	GlobalFiler™					
	14,15	22,24	10,14	17	11,13	
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6	8,10
	17	11			2	
MT9KCJ-5876	PowerPlex® Fusion					
	14,15	22,24	10,14	17	11,13	-
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2	16,17	X,Y	11,12
	22,26	11,13	7,10	-	6	8,10
	17	11	-	-	-	
N42L4E-5876	GlobalFiler™					
	14,15	22,24	10,14	17,17	11,13	
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6,6	8,10
	17,17	11			2	

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

NWZBQU-5871 GlobalFiler Express

	14,15	22,24	10,14	17,17	11,13	
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6,6	8,10
	17,17	11,F			2,F	

PAK7N7-5871 GlobalFiler™

	14,15	22,24	10,14	17	11,13	
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6	8,10
	17	11			2	

PCC4YX-5871 PowerPlex® 21

	14,15	22,24		17,17	11,13	11,20
	10,12	13,13		17,22	10,11	10,11
3	15,17	14,14	30.2,32.2		X,Y	11,12
	22,26	11,13	7,10		6,6	8,10
	17,17					

PV49J6-5871 GlobalFiler™ Express

	14,15	22,24	10,14	17	11,13	
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6	8,10
	17	11			2	

QBVAV3-5871 GlobalFiler™

	14,15	22,24	10,14	17,17	11,13	
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6,6	8,10
	17,17	11			2	

QTKPGN-5871 VERIFILER PLUS (GENETICA FORENSE FINAL 3.0.02 BETA)

	14,15	22,24	10,14	17,17	11,13	11,20
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26	11,13	7,10		6,6	8,10
	17,17				2	

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

QWUJAX-5871	PowerPlex® ESI 16 Fast system					
	14,15	22,24	10,14	17		
		13	13,14	17,22		10,11
3	15,17	14	30.2,32.2	16,17	X,Y	
	22,26				6	
	17					
RC94B3-5871	PowerPlex® 21					
	14,15	22,24		17,17	11,13	11,20
	10,12	13,13		17,22	10,11	10,11
3	15,17	14,14	30.2,32.2		X,Y	11,12
	22,26	11,13	7,10		6,6	8,10
	17,17					
RDPLUC-5876	PowerPlex® Fusion6C, GlobalFiler™ (bsSEAL)					
	14,15	22,24	10,14	17,17	11,13	
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26	11,13	7,10	16,30.2	6,6	8,10
	17,17	11	17	18	2	
RHAEL2-5871	PowerPlex® Fusion 6C					
	14,15	22,24	10,14	17,17	11,13	
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26	11,13	7,10	16,30.2	6,6	8,10
	17,17	11	17	18		
RJ3A64-5871	PowerPlex® 21					
	14,15	22,24		17,17	11,13	11,20
	10,12	13,13		17,22	10,11	10,11
3	15,17	14,14	30.2,32.2		X,Y	11,12
	22,26	11,13	7,10		6,6	8,10
	17,17					
TH4JEF-5871	GlobalFiler™ Express					
	14,15	22,24	10,14	17	11,13	
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6	8,10
	17	11			2	

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

TKTPYC-5876	GlobalFiler™, MiniFiler					
	14,15	22,24	10,14	17,17	11,13	
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6,6	8,10
	17,17	11			2	
TPNLLH-5871	PowerPlex® Fusion 5C					
	14,15	22,24	10,14	17,17	11,13	
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26	11,13	7,10		6,6	8,10
	17,17	11				
TUY2LT-5876	GlobalFiler™ Express					
	14,15	22,24	10,14	17	11,13	
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6	8,10
	17	11			2	
UNWDC3-5871	GlobalFiler™ IQC (GenoProof software)					
	14,15	22,24	10,14	17,17	11,13	
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6,6	8,10
	17,17	11			2	
WC8XZA-5871	Investigator® 24plex GO!					
	14,15	22,24	10,14	17,17	11,13	
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6,6	8,10
	17,17	11				
WJMLQ6-5871	PowerPlex® Fusion (Gene Analysen)					
	14,15	22,24	10,14	17	11,13	
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2		X,Y	11,12
	22,26	11,13	7,10		6	8,10
	17	11				

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

WWGHXY-5871 PowerPlex® FUSION, POWER PLEX ESX17

	14,15	22,24	10,14	17,17	11,13	
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26	11,13	7,10	16,30.2	6,6	8,10
	17,17	11				

WXMKGM-5876 GlobalFiler™

	14,15	22,24	10,14	17	11,13	
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6	8,10
	17	11			2	

X922LY-5871 PowerPlex® Fusion

	14,15	22,24	10,14	17	11,13	
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2	16,17	X,Y	11,12
	22,26	11,13	7,10		6	8,10
	17	11				

XC6P6V-5871 GlobalFiler™

	14,15	22,24	10,14	17,17	11,13	
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6,6	8,10
	17,17	11			2	

YCYV4Z-5876 PowerPlex® Fusion 6C

	14,15	22,24	10,14	17	11,13	
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2	16,17	X,Y	11,12
	22,26	11,13	7,10	16,30.2	6	8,10
	17	11	17	18		

YE7ZV4-5876 GlobalFiler™ IQC

	14,15	22,24	10,14	17,17	11,13	
	10,12	13,13	13,14	17,22	10,11	10,11
3	15,17	14,14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6,6	8,10
	17,17	11			2	

TABLE 1

WebCode-Test	Amplification Kits (Probabilistic Genotyping)					
	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

YPKEDW-5871	PowerPlex® Fusion					
	14,15	22,24	10,14	17	11,13	
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2	16,17	X,Y	11,12
	22,26	11,13	7,10		6	8,10
	17	11				
Z7QW3V-5871	PowerPlex® 21					
	14,15	22,24		17,17	11,13	11,20
	10,12	13,13		17,22	10,11	10,11
3	15,17	14,14	30.2,32.2		X,Y	11,12
	22,26	11,13	7,10		6,6	8,10
	17,17					
ZUEJQZ-5871	GlobalFiler™					
	14,15	22,24	10,14	17	11,13	
	10,12	13	13,14	17,22	10,11	10,11
3	15,17	14	30.2,32.2	16,17	X,Y	11,12
	22,26			16,30.2	6	8,10
	17	11			2	

TABLE 1

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

Item 4 - STR Results

2JP2QY-5871 Verifiler Express

	17,3,18.3	17,17	10,14	16,18	11,12	12,19
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20	9,14	11,11		6,9	8,8
	17,17				2	

3BTN7P-5871 PowerPlex®

		17,17		16,18	11,12	
	9,11	13,13			8,9	9,11
4	13,16	15,15.2	30,30		X,Y	10,13
	18,20	9,14	11,11		6,9	8,8
	17,17					

3M9D6U-5871 PowerPlex® Fusion

	17,3,18.3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20	9,14	11		6,9	8
	17	10				

3NQD3-5876 GlobalFiler™

	17,3,18.3	17,17	10,14	16,18	10,12	
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8,8
	17,17	10			2	

3QN2M7-5876 PowerPlex® 21

	17,3,18.3	17		16,18	11,12	12,19
	9,11	13		18,20	8,9	9,11
4	13,16	15,15.2	30		X,Y	10,13
	18,20	9,14	11		6,9	8
	17					

3VF94T-5871 PowerPlex® 21

	17,3,18.3	17,17		16,18	11,12	12,19
	9,11	13,13		18,20	8,9	9,11
4	13,16	15,15.2	30,30		X,Y	10,13
	18,20	9,14	11,11		6,9	8,8
	17,17					

TABLE 1

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

Item 4 - STR Results

48RZ3M-5876	GlobalFiler™ Express					
	17,3,18.3	17,17	10,14	16,18	11,12	
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8,8
	17,17	10			2	
4FL9MD-5876	GlobalFiler™					
	17,3,18.3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8
	17	10			2	
4KQ2AZ-5876	Identifiler® Plus, GlobalFiler™ PCR Amplification					
	17,3,18.3	17,17	10,14	16,18	11,12	
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8,8
	17,17	10			2	
6ABCGJ-5871	ANDE RapidDNA					
	17,3,18.3	17	10,14	16,18	11,12	12,19
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20		11	26.2,29.2	6,9	8
	17	10	18	18		
6E6BVE-5876	GlobalFiler™					
	17,3,18.3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8
	17	10			2	
6R3D3R-5876	PowerPlex® Fusion System, PowerPlex Y23, Qiagen HDplex (GeneMapper ID v.3.2.1)					
	17,3,18.3	17,17	10,14	16,18	11,12	
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20	9,14	11,11	26.2,29.2	6,9	8,8
	17,17	10	18	18		

TABLE 1

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

Item 4 - STR Results

6U2LK7-5876 PowerPlex® ESI 16 Fast						
	17,3,18.3	17	10,14	16,18		
		13	13,16	18,20		9,11
4	13,16	15,15.2	30	11,15	X,Y	
	18,20				6,9	
	17					
7JVZW4-5876 GlobalFiler™						
	17,3,18.3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8
	17	10			2	
86A38T-5871 GlobalFiler™						
	17,3,18.3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8
	17	10			2	
99RK3J-5871 GlobalFiler™						
	17,3,18.3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8
	17	10			2	
9HUP9E-5876 GlobalFiler™ Express						
	17,3,18.3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8
	17	10			2	
A4RVXG-5871 GlobalFiler™						
	17,3,18.3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8
	17	10			2	

TABLE 1

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

Item 4 - STR Results

AGERET-5871 Identifiler®

		17,17		16,18	11,12	
	9,11	13,13			8,9	9,11
4	13,16	15,15.2	30,30		X,Y	10,13
	18,20				6,9	8,8
	17,17					

B7C6KM-5871 GlobalFiler™

	17.3,18.3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8
	17	10			2	

BKQCHK-5871 PowerPlex® 21

	17.3,18.3	17,17		16,18	11,12	12,19
	9,11	13,13		18,20	8,9	9,11
4	13,16	15,15.2	30,30		X,Y	10,13
	18,20	9,14	11,11		6,9	8,8
	17,17					

BTUJMP-5871 GlobalFiler™ (ForeStatistics)

	17.3,18.3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8
	17	10			2	

BXHYRL-5871 Investigator® 24plex

	17.3,18.3	17,17	10,14	16,18	11,12	
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8,8
	17,17	10				

DM3W6P-5871 GlobalFiler™ (Qualitytype GenoProof® 3.0.7)

	17.3,18.3	17,17	10,14	16,18	11,12	
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8,8
	17,17	10			2	

TABLE 1

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

Item 4 - STR Results

EVTYLQ-5871		PowerPlex® ESX 17, PowerPlex®Fusion					
		17,3,18,3	17,17	10,14	16,18	11,12	
		9,11	13,13	13,16	18,20	8,9	9,11
4		13,16	15,15.2	30,30	11,15	X,Y	10,13
		18,20	9,14	11,11	26.2,29.2	6,9	8,8
		17,17	10				
F3GNEB-5871		PowerPlex® Fusion6C					
		17,3,18,3	17,17	10,14	16,18	11,12	
		9,11	13,13	13,16	18,20	8,9	9,11
4		13,16	15,15.2	30,30	11,15	X,Y	10,13
		18,20	9,14	11,11	26.2,29.2	6,9	8,8
		17,17	10	18	18		
G8QJFP-5871		GlobalFiler™ Express (Personal software)					
		17,3,18,3	17,17	10,14	16,18	11,12	
		9,11	13,13	13,16	18,20	8,9	9,11
4		13,16	15,15.2	30,30	11,15	X,Y	10,13
		18,20			26.2,29.2	6,9	8,8
		17,17	10			2	
GAFQZM-5876		GlobalFiler™					
		17,3,18,3	17,17	10,14	16,18	11,12	
		9,11	13,13	13,16	18,20	8,9	9,11
4		13,16	15,15.2	30,30	11,15	X,Y	10,13
		18,20			26.2,29.2	6,9	8,8
		17,17	10			2	
GL6PQP-5876		GlobalFiler™					
		17,3,18,3	17,17	10,14	16,18	11,12	
		9,11	13,13	13,16	18,20	8,9	9,11
4		13,16	15,15.2	30,30	11,15	X,Y	10,13
		18,20			26.2,29.2	6,9	8,8
		17,17	10			2	
GL7PHC-5871		PowerPlex® 5C					
		17,3,18,3	17	10,14	16,18	11,12	--
		9,11	13	13,16	18,20	8,9	9,11
4		13,16	15,15.2	30	11,15	X,Y	10,13
		18,20	9,14	11	--	6,9	8
		17	10	--	--	--	

TABLE 1

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

Item 4 - STR Results

GLPBE9-5876	GlobalFiler™					
	17,3,18.3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8
	17	10			2	
HEXMX9-5876	Identifiler®					
		17,17		16,18	11,12	
	9,11	13,13			8,9	9,11
4	13,16	15,15.2	30,30		X,Y	10,13
	18,20				6,9	8,8
	17,17					
HNP4LC-5871	PowerPlex® Fusion					
	17,3,18.3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20	9,14	11		6,9	8
	17	10				
HXEKLE-5871	Investigator® 24plex					
	17,3,18.3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8
	17	10				
JCABX3-5876	PowerPlex® Fusion 5C, Verifiler Plus					
	17,3,18.3	17	10,14	16,18	11,12	12,19
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20	9,14	11		6,9	8
	17	10			2	
JDKDK2-5876	GlobalFiler™ Express					
	17,3,18.3	17,17	10,14	16,18	11,12	
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8,8
	17,17	10			2	

TABLE 1

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

Item 4 - STR Results

K2E3VF-5871	GlobalFiler™ (ForeStatistics)					
	17,3,18,3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8
	17	10			2	
LEUTB8-5871	GlobalFiler™					
	17,3,18,3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8
	17	10			2	
LNTXU9-5876	PowerPlex® CS7, Verifiler Express, Investigator HDplex, SureID 27comp					
	17,3,18,3	17,17	10,14	16,18	11,12	12,19
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20	9,14	11,11	26.2,29.2	6,9	8,8
	17,17				2	
LYHGHE-5871	GlobalFiler™					
	17,3,18,3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8
	17	10			2	
MT9KCJ-5876	PowerPlex® Fusion					
	17,3,18,3	17	10,14	16,18	11,12	-
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20	9,14	11	-	6,9	8
	17	10	-	-	-	
N42L4E-5876	GlobalFiler™					
	17,3,18,3	17,17	10,14	16,18	11,12	
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8,8
	17,17	10			2	

TABLE 1

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

Item 4 - STR Results

NWZBQU-5871 GlobalFiler Express

	17,3,18.3	17,17	10,14	16,18	11,12	
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8,8
	17,17	10,F			2,F	

PAK7N7-5871 GlobalFiler™

	17,3,18.3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8
	17	10			2	

PCC4YX-5871 PowerPlex® 21

	17,3,18.3	17,17		16,18	11,12	12,19
	9,11	13,13		18,20	8,9	9,11
4	13,16	15,15.2	30,30		X,Y	10,13
	18,20	9,14	11,11		6,9	8,8
	17,17					

PV49J6-5871 GlobalFiler™ Express

	17,3,18.3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8
	17	10			2	

QBVAV3-5871 GlobalFiler™

	17,3,18.3	17,17	10,14	16,18	11,12	
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8,8
	17,17	10			2	

QTKPGN-5871 VERIFILER PLUS

	17,3,18.3	17,17	10,14	16,18	11,12	12,19
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20	9,14	11,11		6,9	8,8
	17,17				2	

TABLE 1

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

Item 4 - STR Results

QWUJAX-5871 PowerPlex® ESI 16 Fast system

	17,3,18.3	17	10,14	16,18		
		13	13,16	18,20		9,11
4	13,16	15,15.2	30	11,15	X,Y	
	18,20				6,9	
	17					

RC94B3-5871 PowerPlex® 21

	17,3,18.3	17,17		16,18	11,12	12,19
	9,11	13,13		18,20	8,9	9,11
4	13,16	15,15.2	30,30		X,Y	10,13
	18,20	9,14	11,11		6,9	8,8
	17,17					

RDPLUC-5876 PowerPlex® Fusion6C, GlobalFiler™ (bsSEAL)

	17,3,18.3	17,17	10,14	16,18	11,12	
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20	9,14	11,11	26.2,29.2	6,9	8,8
	17,17	10	18	18	2	

RHAE2-5871 PowerPlex® Fusion 6C

	17,3,18.3	17,17	10,14	16,18	11,12	
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20	9,14	11,11	26.2,29.2	6,9	8,8
	17,17	10	18	18		

RJ3A64-5871 PowerPlex® 21

	17,3,18.3	17,17		16,18	11,12	12,19
	9,11	13,13		18,20	8,9	9,11
4	13,16	15,15.2	30,30		X,Y	10,13
	18,20	9,14	11,11		6,9	8,8
	17,17					

TH4JEF-5871 GlobalFiler™ Express

	17,3,18.3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8
	17	10			2	

TABLE 1

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

Item 4 - STR Results

TKTPYC-5876	GlobalFiler™, MiniFiler					
	17,3,18,3	17,17	10,14	16,18	11,12	
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8,8
	17,17	10			2	
TPNLLH-5871	PowerPlex® Fusion 5C					
	17,3,18,3	17,17	10,14	16,18	11,12	
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20	9,14	11,11		6,9	8,8
	17,17	10				
TUY2LT-5876	GlobalFiler™ Express					
	17,3,18,3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8
	17	10			2	
UNWDC3-5871	GlobalFiler™ IQC (GenoProof software)					
	17,3,18,3	17,17	10,14	16,18	11,12	
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8,8
	17,17	10			2	
WC8XZA-5871	Investigator® 24plex GO!					
	17,3,18,3	17,17	10,14	16,18	11,12	
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8,8
	17,17	10				
WJMLQ6-5871	PowerPlex® Fusion (Gen Analyser)					
	17,3,18,3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30		X,Y	10,13
	18,20	9,14	11		6,9	8
	17	10				

TABLE 1

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

Item 4 - STR Results

WWGHXY-5871 PowerPlex® FUSION, POWER PLEX ESX 17

	17,3,18.3	17,17	10,14	16,18	11,12	
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20	9,14	11,11	26.2,29.2	6,9	8,8
	17,17	10				

WXMKGM-5876 GlobalFiler™

	17,3,18.3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8
	17	10			2	

X922LY-5871 PowerPlex® Fusion

	17,3,18.3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20	9,14	11		6,9	8
	17	10				

XC6P6V-5871 GlobalFiler™

	17,3,18.3	17,17	10,14	16,18	11,12	
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8,8
	17,17	10			2	

YCYV4Z-5876 PowerPlex® Fusion 6C

	17,3,18.3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20	9,14	11	26.2,29.2	6,9	8
	17	10	18	18		

YE7ZV4-5876 GlobalFiler™ IQC

	17,3,18.3	17,17	10,14	16,18	11,12	
	9,11	13,13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30,30	11,15	X,Y	10,13
	18,20			26.2,29.2	6,9	8,8
	17,17	10			2	

TABLE 1

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

Item 4 - STR Results

YPKEDW-5871 PowerPlex® Fusion

	17,3,18,3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20	9,14	11		6,9	8
	17	10				

Z7QW3V-5871 PowerPlex® 21

	17,3,18,3	17,17		16,18	11,12	12,19
	9,11	13,13		18,20	8,9	9,11
4	13,16	15,15.2	30,30		X,Y	10,13
	18,20	9,14	11,11		6,9	8,8
	17,17					

ZUEJQZ-5871 GlobalFiler™

	17,3,18,3	17	10,14	16,18	11,12	
	9,11	13	13,16	18,20	8,9	9,11
4	13,16	15,15.2	30	11,15	X,Y	10,13
	18,20			26,2,29,2	6,9	8
	17	10			2	

Paternity Index Results

TABLE 2

WebCode-Test	Population Database(s)					
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						

Item 3PI - Paternity Index Results

2JP2QY-5871	NIST-STRBASE	3.630	8.741	1.484	5.426	4.626	15.72
		1.628	3.659	1.475	6.554	5.020	3.324
3PI		3.180	2.043	21.68	5.488		1.788
		3.024	3.455	4.291		4.177	1.031
		4.068					
<hr/>							
3M9D6U-5871	NIST-STRBASE	3.6310	8.7412	1.4841	5.4259	4.6253	
		1.6276	3.6589	1.4749	6.5530	5.0200	3.3244
3PI		3.1466	2.0433	21.4592	5.4884		1.7876
		3.0248	3.4698	4.2158		4.1771	1.0305
		4.0683					
<hr/>							
3NQD3-5876	[Location Identifying Database]	3.28	5.10	1.15	7.03	4.60	
		1.77	2.97	1.26	5.85	4.27	2.56
3PI		2.87	2.31	24.87	8.77		1.70
		200			3.27	3.82	0.97
		3.75					
<hr/>							
3QN2M7-5876	NIST-STRBASE	3.63	8.74		5.43	4.63	15.7
		1.63	3.66		6.56	5.02	3.32
3PI		3.15	2.04	21.5			1.79
		3.03	3.46	4.29		4.18	1.03
		4.07					
<hr/>							
3VF94T-5871	NIST-STRBASE	3.6311	8.7413		5.4259	4.6253	15.7233
		1.6276	3.6590		6.5531	5.0201	3.3245
3PI		3.1466	2.0433	21.4592			1.7876
		3.0248	3.4698	4.2159		4.1771	1.0305
		4.0683					
<hr/>							
48RZ3M-5876	NIST-STRBASE	3.631	8.741	1.484	5.426	4.625	
		1.628	3.659	1.475	6.553	5.020	3.324
3PI		3.147	2.043	21.459	5.488		1.788
		3.025			6.053	4.177	1.031
		4.068					
<hr/>							
4FL9MD-5876	FBI PopStats	3.0921	6.6401	2.4606	4.8972	3.0656	
		1.6955	3.7272	1.6903	4.0161	8.4890	4.6253
3PI		2.9940	2.3702	23.041	3.6603		1.8275
		2.5329			7.4074	5.1046	1.0725
		3.8153					

TABLE 2

WebCode-Test	Population Database(s)					
	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					

Item 3PI - Paternity Index Results

4KQ2AZ-5876	NIST-STRBASE					
		1.57	10.33	2.45	4.26	3.38
		3.26	4.81	1.86	5.53	3.45
3PI		2.71	3.33	50.51	2.42	2.05
		2.84			9.26	8.87
		4.05				0.90
6E6BVE-5876	NIST-STRBASE					
		3.0921	6.6401	2.4606	4.8972	3.0656
		1.6955	3.7272	1.6903	4.0161	8.4890
3PI		2.9940	2.3702	23.041	3.6603	1.8275
		2.5329			7.4074	5.1046
		3.8153				1.0725
6R3D3R-5876	Laboratory specific database					
		4.6729	18.1159	2.4038	4.9579	3.5211
		80.6452	3.0618	1.3158	4.3860	9.0909
3PI		3.1192	1.7940	6.8120	6.1728	1.8519
		2.8011	4.0984	6.0976	10.4597	4.8972
		3.6206				0.9222
6U2LK7-5876	NIST-STRBASE					
		3.6311	8.7413	1.4841	5.4259	
			3.6590	1.4749	6.5531	3.3245
3PI		3.1466	2.0433	21.4592	5.4885	
		3.0248				4.1771
		4.0683				
7JVZW4-5876	[Laboratory Identifying Database]					
			6.75		6.24	3.97
		1.82	3.04			5.47
3PI		3.02	2.21	17.06		3.19
		2.90				1.77
		4.64				4.39
						1.01
86A38T-5871	FBI PopStats					
		3.3179	6.9638	1.1484	7.8864	5.2247
		1.6329	3.0960	1.4120	7.2046	4.9751
3PI		3.5436	2.3354	14.925	8.3612	1.8825
		2.9036			6.7385	4.3085
						0.90090
99RK3J-5871	FBI PopStats					
		3.3179	6.9638	1.1484	7.8864	5.2247
		1.6329	3.0960	1.4120	7.2046	4.9751
3PI		3.5436	2.3354	14.925	8.3612	1.8825
		2.9036			6.7385	4.3085
						0.90090

TABLE 2

WebCode-Test	Population Database(s)					
	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					

Item 3PI - Paternity Index Results

9HUP9E-5876	FBI PopStats					
		3.3179	6.9638	1.1484	7.8864	5.2247
		1.6329	3.0960	1.4120	7.2046	4.9751
3PI		3.5436	2.3354	14.925	8.3612	1.8825
		2.9036				4.3085
		4.4464				0.90090
<hr/>						
A4RVXG-5871	FBI PopStats					
		3.3179	6.9638	1.1484	7.8864	5.2247
		1.6329	3.0960	1.4120	7.2046	4.9751
3PI		3.5436	2.3354	14.925	8.3612	1.8825
		2.9036			6.7385	4.3085
						0.90090
<hr/>						
AGERET-5871	NIST-STRBASE					
			8.741		5.425	4.625
		1.627	3.658			5.020
3PI		3.146	2.043	21.459		3.324
		3.024				5.020
		4.068				4.177
						1.030
<hr/>						
B7C6KM-5871	NIST-STRBASE					
		3.6311	8.7413	1.4841	5.4259	4.6253
		1.6276	3.6590	1.4749		5.0201
3PI		3.1466	2.0433	21.459	5.4885	3.3245
		3.0248			6.0533	5.0201
						4.1771
						1.0305
<hr/>						
BKQCHK-5871	NIST-STRBASE					
		3.631	8.741		5.425	4.627
		1.628	3.659		6.556	5.021
3PI		3.147	2.043	21.455		3.324
		3.026	3.456	4.291		5.021
		4.069				4.177
						1.031
<hr/>						
BTUJMP-5871	NIST-STRBASE					
		3.630769231	8.740740741	1.48427673	5.425287356	4.62745098
		1.627586207	3.658914729	1.475	6.555555556	5.021276596
3PI		3.146666667	2.043290043	21.45454545	5.488372093	3.323943662
		3.025641026			6.051282051	5.021276596
		4.068965517				4.17699115
						1.030567686
<hr/>						
BXHYRL-5871	NIST-STRBASE					
		1.79	9.70	1.86	4.97	3.12
		1.90	4.97	1.97	6.06	4.84
3PI		2.77	2.77	19.3	2.25	3.03
		2.06			8.81	4.84
		3.18				5.87
						.915

TABLE 2

WebCode-Test	Population Database(s)					
	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					

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DM3W6P-5871	NIST-STRBASE					
	3.6307	8.7407	1.4842	5.4252	4.6274	
	1.6275	3.6589	1.4750	6.5555	5.0212	3.3239
3PI	3.1466	2.0432	21.4545	5.4883		1.7878
	3.0256			6.0512	4.1769	1.0305
	4.0689					
EVTYLQ-5871	NIST-STRBASE					
	3.6311	8.7412	1.4841	5.4259	4.6253	
	1.6276	3.6590	1.4749	6.5530	5.0200	3.3245
3PI	3.1466	2.0433	21.4592	5.4884		1.7876
	3.0248	3.4554	4.2918	6.0533	4.1771	1.0305
	4.0683					
F3GNEB-5871	NIST-STRBASE					
	3.34225	14.45087	2.37530	4.75059	3.50385	
	1.95160	3.03398	1.67898	3.92465	10.61571	8.80282
3PI	2.93427	1.93050	17.18213	6.68449		1.61865
	2.43902	2.54194	2.95858	7.84929	4.24628	0.95256
	3.52237					
G8QJFP-5871	STRidER2.0					
	2.82	14.23	2.56	4.57	3.15	
	2.38	3.58	1.74	5.04	4.76	6.50
3PI	2.87	2.18	11.80	4.13		1.61
	2.68			7.08	5.13	0.89
	3.73					
GAFQZM-5876	NIST-STRBASE					
	3.52	7.72	1.50	4.85	4.40	
	1.64	3.43	1.49	not used - linkage	4.74	3.24
3PI	3.08	1.97	15.5	5.14		1.80
	2.97			4.61	3.72	1.03
	3.77					
GL6PQP-5876	NIST-STRBASE					
	3.52	7.72	1.50	4.85	4.40	
	1.64	3.43	1.49	Omitted	4.74	3.24
3PI	3.08	1.97	15.5	5.14		1.80
	2.97			4.61	3.72	1.03
	3.77					
GL7PHC-5871	FBI PopStats, Promega/NIST					
	3.30	6.79	1.43	7.76	5.09	--
	1.62	3.06	1.40	7.32	4.85	2.82
3PI	3.57	2.24	14.5	5.70		1.87
	2.79	2.77	6.19	--	4.28	0.899
	4.47					

TABLE 2

WebCode-Test	Population Database(s)					
	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					

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GLPBE9-5876	NIST-STRBASE					
	3.6311	8.7413	1.4841	5.4259	4.6253	
	1.6276	3.6590	1.4749	6.5531	5.0201	3.3245
3PI	3.1466	2.0433	21.4592	5.4885		1.7876
	3.0248			6.0533	4.1771	1.0305
	4.0683					
HEXMX9-5876	Hispanic					
		0.00		0.00	0.00	
	0.00	3.01			0.00	0.00
3PI	0.00	1.14	0.00			0.00
	0.00				1.83	2.09
	3.67					
HNP4LC-5871	NIST-STRBASE					
	3.6310	8.7412	1.4841	5.4259	4.6253	
	1.6276	3.6589	1.4749	6.5530	5.0200	3.3244
3PI	3.1466	2.0433	21.4592	5.4884		1.7876
	3.0248	3.4698	4.2158		4.1771	1.0305
	4.0683					
HXEKLE-5871	FBI PopStats					
	3.3179	6.9638	1.1484	7.8864	5.2247	
	1.6329	3.0960	1.4120	7.2046	4.9751	2.8249
3PI	3.5436	2.3354	14.925	8.3612		1.8825
	2.9036			6.7385	4.3085	0.90090
	4.4464					
JCABX3-5876	in house database					
	3.81170	15.91603	2.64930	4.62306	2.86008	26.31250
	1.92877	3.12828	1.62763	4.97613	7.58182	7.66544
3PI	3.49832	1.82096	15.21898	5.94017		1.62891
	2.90390	2.35593	2.92837		4.76571	0.92338
	3.64829					
JDKDK2-5876	FBI PopStats					
	3.318	6.964	1.148	7.886	5.225	
	1.633	3.096	1.412	7.205	4.975	2.825
3PI	3.544	2.335	14.925	8.361		1.882
	2.904				4.308	0.901
	4.446					
K2E3VF-5871	NIST-STRBASE					
	3.630769231	8.740740741	1.48427673	5.425287356	4.62745098	
	1.627586207	3.658914729	1.475	6.555555556	5.021276596	3.323943662
3PI	3.146666667	2.043290043	21.45454545	5.488372093		1.333333333
	3.025641026			6.051282051	4.17699115	1.030567686
	4.068965517					

TABLE 2

WebCode-Test	Population Database(s)					
	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					

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LEUTB8-5871	FBI PopStats					
		3.3179	6.9638	1.1484	7.8864	5.2247
		1.6329	3.0960	1.4120	7.2046	4.9751
3PI		3.5436	2.3354	14.925	8.3612	1.8825
		2.9036			6.7385	4.3085
						0.90090
LNTXU9-5876	NIST-STRBASE, laboratory specific database where not on NIST					
		3.6308	8.7407	1.4843	5.4253	4.6275
		1.6276	3.6589	1.4750	6.5556	5.0213
3PI		3.1467	2.0433	21.4545	5.4884	1.7879
		3.0256	3.4559	4.2909	6.0513	4.1770
		4.0690				1.0306
LYHGHE-5871	FBI PopStats					
		3.3179	6.9638	1.1484	7.8864	5.2247
		1.6329	3.0960	1.4120	7.2046	4.9751
3PI		3.5436	2.3354	14.925	8.3612	1.8825
		2.9036			6.7385	4.3085
						0.9009
MT9KCJ-5876	NIST-STRBASE					
		3.631	8.741	1.484	5.396	4.627
		1.628	3.646	1.475	6.556	5.021
3PI		3.147	2.038	21.45	5.488	1.788
		3.026	3.432	4.291		4.16
		4.052				1.028
N42L4E-5876	NIST-STRBASE					
		3.523	7.721	1.501	4.850	4.403
		1.641	3.431	1.492	omitted	4.741
3PI		3.082	1.966	15.534	5.138	1.797
		2.970			4.609	3.720
		3.773				1.031
NWZBQU-5871	NIST-STRBASE					
		3.4237	6.9639	1.5159	4.4077	4.2105
		1.6528	3.2371	1.5069	5.5971	4.5064
3PI		3.01959	1.8965	1.2350E1	4.8491	1.8045
		2.9164			3.7611	3.3713
		3.5269				1.0296
PAK7N7-5871	FBI PopStats					
		3.3179	6.9638	1.1484	7.8864	5.2247
		1.6329	3.0960	1.4120	7.2046	4.9751
3PI		3.5436	2.3354	14.925	8.3612	1.8825
		2.9036			6.7385	4.3085
		4.4464				0.90090

TABLE 2

WebCode-Test	Population Database(s)					
	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					

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PCC4YX-5871	local database	3.10	9.12		4.05	2.74	9.32
		1.77	2.71		3.83	5.63	6.25
	3PI	3.27	1.73	9.53			1.62
		2.59	2.15	2.79		3.31	0.91
		3.22					
QBVAV3-5871	FBI PopStats	3.3179	6.9638	1.1484	7.8864	5.2247	
		1.6329	3.0960	1.4120	7.2046	4.9751	2.8249
	3PI	3.5436	2.3354	14.925	8.3612		1.8825
		2.9036			6.7385	4.3085	0.90090
		4.4464					
QTKPGN-5871	Laboratory-specific database	3.28	7.10	1.15	7.03	4.59	
		1.76	2.97	1.26	5.85	4.26	2.56
	3PI	2.87	2.30	24.87	6.28		1.70
		3.90	2.96	8.07		3.82	0.96
		3.74					
QWUJAX-5871	NIST-STRBASE	6.185	13.282	2.939	4.898		
			3.727	3.380	8.031		3.430
	3PI	5.988	2.371	46.044	7.322		
		5.066				5.103	
		3.816					
RC94B3-5871	NIST_Hispanic	3.3323	6.3743		4.0551	4.0415	8.9565
		1.6617	3.0696		5.2404	4.3049	3.0984
	3PI	2.9595	1.8328	10.3612			1.8088
		2.8631	2.7202	3.8112		3.0948	1.0270
		3.3191					
RDPLUC-5876	[Identifying Location]_STRidER	3.68	17.7	2.67	4.75	3.13	
		1.91	3.08	1.60	4.76	8.15	8.64
	3PI	3.48	1.96	11.8	5.62		1.57
		2.77	2.49	3.24	6.42	4.30	0.925
		3.63					
RHAEL2-5871	FBI PopStats	3.3179	6.9638	1.1484	7.8864	5.2247	
		1.6329	3.0960	1.4120	7.2046	4.9751	2.8249
	3PI	3.5436	2.3354	14.925	8.3612		1.8825
		2.9036	2.4307	5.6497	6.7385	4.3085	0.90090
		4.4464					

TABLE 2

WebCode-Test	Population Database(s)					
	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					

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RJ3A64-5871	NIST-STRBASE					
	3.631	8.741		5.426	4.625	15.723
	1.628	3.659		6.553	5.020	3.325
3PI	3.147	2.043	21.459			1.788
	3.025	3.470	4.216		4.177	1.031
	4.068					
TH4JEF-5871	NIST-STRBASE					
	3.6310	8.7412	1.4841	5.4259	4.6253	
	1.6276	3.6589	1.4749	6.5530	5.0200	3.3244
3PI	3.1466	2.0433	21.4592	5.4884		1.7876
	3.0248			6.0532	4.1771	1.0305
	4.0683					
TKTPYC-5876	NIST-STRBASE					
	3.523	7.721	1.501	4.850	4.403	
	1.641	3.431	1.492	OMITTED	4.741	3.242
3PI	3.082	1.966	15.53	5.138		1.798
	2.970			4.609	3.720	1.031
	3.773					
TPNLLH-5871	FBI PopStats					
	3.6311	7.1023	1.4841	7.8864	5.2029	
	1.6329	3.0760	1.4749	6.5531	4.9505	2.8490
3PI	3.6258	2.2722	15.6250	5.4885		1.8825
	2.8201	2.6596	4.0323		4.3085	0.9009
	4.5106					
TUY2LT-5876	FBI PopStats					
	3.3179	6.9638	1.1484	7.8864	5.2247	
	1.6329	3.0960	1.4120	7.2046	4.9751	2.8249
3PI	3.5436	2.3354	14.925	8.3612		1.8825
	2.9036				4.3085	0.9009
	4.4464					
UNWDC3-5871	STRider (STRs for Identity ENFSI Reference Database)					
	3.3266	8.8495	1.4359	5.5524	3.1250	
	1.9230	3.4638	1.4001	7.4626	9.0909	2.9481
3PI	3.3602	2.0366	25.9067	5.7937		1.6611
	2.9994			6.2189	3.8182	0.8896
	4.0485					
WC8XZA-5871	NIST-STRBASE					
	1.79	9.70	1.86	4.97	3.12	
	1.90	4.97	1.97	6.06	4.84	3.03
3PI	2.77	2.77	19.3	2.25		2.30
	2.06			8.81	5.87	.915
	3.18					

TABLE 2

WebCode-Test	Population Database(s)					
	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					

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WJMLQ6-5871	NIST-STRBASE					
		3.63	8.74	1.48	5.42	4.63
		1.63	3.66	1.48	6.56	5.02
3PI		3.15	2.04	21.45		1.79
		3.03	3.46	4.29		4.18
		4.07				1.03
WWGHXY-5871	NIST-STRBASE					
		3.6311	8.7413	1.4841	5.4259	4.6253
		1.6276	3.6590	1.4749	6.5531	5.0201
3PI		3.1466	2.0433	21.459	5.4885	1.7876
		3.0248	3.4554	4.2918	6.0533	4.1771
		4.0683				1.0305
WXMKGM-5876	FBI PopStats					
		3.09	6.64	2.46	4.89	3.06
		1.69	3.72	1.69	4.01	8.48
3PI		2.99	2.37	23.0	3.66	1.82
		2.53			7.40	5.10
		3.81				1.07
X922LY-5871	NIST-STRBASE					
		3.6310	8.7412	1.4841	5.4259	4.6253
		1.6276	3.6589	1.4749	6.5530	5.0200
3PI		3.1466	2.0433	21.4592	5.4884	1.7876
		3.0248	3.4698	4.2158		4.1771
		4.0683				1.0305
XC6P6V-5871	[Location Identifying Database]					
		3.13	14.67	2.23	5.23	3.11
		2.02	3.31	1.51	4.63	7.65
3PI		3.69	1.94	11.23	7.04	1.68
		2.58			6.60	4.05
		3.94				0.94
YCYV4Z-5876	FBI PopStats					
		3.3179	6.9638	1.1484	7.8864	5.2247
		1.6329	3.0960	1.4120	7.2046	4.9751
3PI		3.5436	2.3354	14.925	8.3612	1.8825
		2.9036	2.4307	5.6497	6.7385	4.3085
		4.4464				0.90090
YPKEDW-5871	NIST-STRBASE					
		3.6310	8.7412	1.4841	5.4259	4.6253
		1.6276	3.6589	1.4749	6.5530	5.0200
3PI		3.1466	2.0433	21.4592	5.4884	1.7876
		3.0248	3.4698	4.2158		4.1771
		4.0683				1.0305

TABLE 2

WebCode-Test	Population Database(s)					
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					

Item 3PI - Paternity Index Results

Z7QW3V-5871	NIST-STRBASE					
	3.631	8.741		5.426	4.625	15.723
	1.628	3.659		6.553	5.020	3.325
3PI	3.147	2.043	21.459			1.788
	3.025	3.470	4.216		4.177	1.031
	4.068					
ZUEJQZ-5871	FBI PopStats					
	3.2765	5.9382	1.4616	3.8775	3.3921	
	2.4355	2.6759	2.4355	5.5866	5.5866	3.7994
3PI	2.3753	3.0166	19.011	2.0653		1.9794
	2.1115			6.7843	4.3178	1.0555
	3.1666					

TABLE 2

WebCode-Test	Population Database(s)					
	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					

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2JP2QY-5871	NIST-STRBASE						
		0	0	1.484	0	0	0
		0	3.659	0	0	0	0
4PI		0	1.022	0	0	0	0
		0	0	0	2.089	2.061	
		4.068					
3NQD3-5876	[Location Identifying Database]						
		0	0	1.15	0	0	
		0	2.97	0	0	0	0
4PI		0	1.15	2.26	0	0	0
		0			0	1.91	1.93
		3.75					
3QN2M7-5876	NIST-STRBASE						
		0.00200	0.00000175		0.00543	0.00463	0.0157
		0.00366	3.66		0.00656	0.00502	0.00665
4PI		0.00315	1.02	0.00200			0.00179
		0.000303	0.00346	0.00000858		2.09	2.06
		4.07					
3VF94T-5871	NIST-STRBASE						
		0	0		0	0	0
		0	3.659		0	0	0
4PI		0	1.0217	0			0
		0	0	0	2.0886	2.061	
		4.0683					
4FL9MD-5876	FBI PopStats						
				2.4606			
			3.7272				
4PI			1.1851				
					2.5523	2.1450	
		3.8153					
4KQ2AZ-5876	NIST-STRBASE						
		0	0	2.45	0	0	
		0	4.81	0	0	0	0
4PI		0	1.66	0	0	0	0
		0			0	4.44	1.80
		4.05					
6E6BVE-5876	NIST-STRBASE						
				2.4606			
			3.7272				
4PI			1.1851				
					2.5523	2.1450	
		3.8153					

TABLE 2

WebCode-Test	Population Database(s)					
	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					

Item 4PI - Paternity Index Results

6R3D3R-5876	Laboratory specific database					
	0	0	2.4038	0	0	
	0	3.0618	0	0	0	0
4PI	0	0.8970	0	0		0
	0	0	0	0	2.4486	1.8443
	3.6206					
6U2LK7-5876	NIST-STRBASE					
	0	0	1.4841	0		
		3.6590	0	0		0
4PI	0	1.0217	0	0		
	0				2.0886	
	4.0683					
7JVZW4-5876	[Laboratory Identifying Database]					
		0		0	0	
	0	3.04			0	0
4PI	0	1.11	0			0
	0				2.20	2.01
	4.64					
AGERET-5871	NIST-STRBASE					
		0		0	0	
	0	3.658			0	0
4PI	0	1.021	0			0
	0				2.088	2.061
	4.068					
DM3W6P-5871	NIST-STRBASE					
	0.0002	0.0001	1.4842	0.0022	0.0040	
	0.0010	3.6589	0.0007	0.0032	0.0043	0.0018
4PI	0.0039	1.0216	0.0366	0.0003		0.0018
	0.0008			0.0001	2.0884	2.0611
	4.0689					
F3GNEB-5871	NIST-STRBASE					
	0	0	2.37530	0	0	
	0	3.03398	0	0	0	0
4PI	0	0.96252	0	0		0
	0	0	0	0	2.12314	1.90512
	3.52237					
G8QJFP-5871	STRidER2.0					
	0	0	2.56	0	0	
	0	3.58	0	0	0	0
4PI	0	1.09	0	0		0
	0			0	2.57	1.77
	3.73					

TABLE 2

WebCode-Test	Population Database(s)					
	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					

Item 4PI - Paternity Index Results

GAFQZM-5876	NIST-STRBASE	0	0	1.50	0	0	
		0	3.43	0	0	0	0
4PI		0	1.00	0	0	0	0
		0			0	1.93	2.02
		3.77					
GL6PQP-5876	NIST-STRBASE	0	0	1.50	0	0	
		0	3.43	0	0	0	0
4PI		0	1.00	0	0	0	0
		0			0	1.93	2.02
		3.77					
GL7PHC-5871	FBI PopStats, Promega/NIST	--	--	1.43	--	--	--
		--	3.06	--	--	--	--
4PI		--	1.12	--	--	--	--
		--	--	--	--	2.14	1.8
		4.47					
GLPBE9-5876	NIST-STRBASE	0	0	1.4841	0	0	
		0	3.6590	0	0	0	0
4PI		0	1.0217	0	0	0	0
		0			0	2.0886	2.0610
		4.0683					
HEXMX9-5876	Hispanic		7.52		5.54	3.41	
		1.98	3.01			5.12	3.15
4PI		4.05	2.27	26.30			1.82
		3.44				3.67	1.04
		3.67					
HXEKLE-5871	FBI PopStats			1.1484			
			3.0960				
4PI			1.1677				
						2.1542	1.8018
		4.4464					
MT9KCJ-5876	NIST-STRBASE	0	0	1.484	0	0	
		0	3.646	0	0	0	0
4PI		0	1.022	0	0	0	0
		0	0	0		2.08	2.057
		4.052					

TABLE 2

WebCode-Test	Population Database(s)					
	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					

Item 4PI - Paternity Index Results

N42L4E-5876	NIST-STRBASE					
	0.000	0.000	1.501	0.000	0.000	
	0.000	3.431	0.000	0.000	0.000	0.000
4PI	0.000	1.002	0.000	0.000		0.000
	0.000			0.000	1.930	2.021
	3.773					
NWZBQU-5871	NIST-STRBASE					
	1.4292E-03	2.0467E-03	1.5149	1.5353E-03	3.3582E-03	
	2.8160E-03	3.2321	1.4414E-03	1.3757E-03	4.0718E-03	1.5393E-03
4PI	3.3554E-03	9.8400E-01	3.2317E-03	1.5903E-03		2.4042E-03
	5.7398E-03			1.2436E-02	1.8000	1.9822
	3.5229					
PAK7N7-5871	FBI PopStats					
			1.1484			
		3.0960				
4PI		1.1677				
				2.1542	1.8018	
	4.4464					
PCC4YX-5871	local database					
	0	0		0	0	0
	0	2.71		0	0	0
4PI	0	0.90	0			0
	0	0	0		1.76	1.76
	3.22					
QBVAV3-5871	FBI PopStats					
			1.1484			
		3.0960				
4PI		1.1677				
				2.1542	1.8018	
	4.4464					
RJ3A64-5871	NIST-STRBASE					
	0	0		0	0	0
	0	3.659		0	0	0
4PI	0	1.022	0			0
	0	0	0		2.089	2.061
	4.068					
TH4JEF-5871	NIST-STRBASE					
	0.0028	0.0012	1.4841	0.0020	0.0016	
	0.0016	3.6589	0.0028	0.0028	0.0019	0.0020
4PI	0.0036	1.0216	0.0022	0.0028		0.0022
	0.0048			0.0064	2.0885	2.0610
	4.0683					

TABLE 2

WebCode-Test	Population Database(s)					
	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					

Item 4PI - Paternity Index Results

TKTPYC-5876	NIST-STRBASE					
		0	1.501	0	0	
		0	0	0	0	0
4PI		0	0	0	0	0
		0	0	0	1.930	2.021
		3.773				
TPNLLH-5871	FBI PopStats					
		0.000	1.4841	0.000	0.000	
		0.000	0.000	0.000	0.000	0.000
4PI		0.000	0.000	0.000	0.000	0.000
		0.000	0.000	0.000	2.1542	1.8018
		4.5106				
UNWDC3-5871	STRider (STRs for Identity ENFSI Reference Database)					
		-	1.4359	-	-	
		-	-	-	-	-
4PI		-	-	-	-	-
		-	-	-	1.9091	1.7793
		4.0485				
WJMLQ6-5871	NIST-STRBASE					
		0.00	1.48	0.35	0.31	
		0.19	0.00	0.00	0.39	0.11
4PI		0.48	0.00	0.00	0.11	0.11
		0.05	0.00	0.00	2.09	2.06
		4.07				
WXMKGM-5876	FBI PopStats					
			2.46			
			3.72			
4PI			1.18			
					2.55	2.14
		3.81				
XC6P6V-5871	[Location Identifying Database]					
		0.00	2.23	0.00	0.00	
		0.00	0.00	0.00	0.00	0.00
4PI		0.00	0.00	0.00	0.00	0.00
		0.00	0.00	0.00	2.02	1.87
		3.94				
Z7QW3V-5871	NIST-STRBASE					
		0		0	0	0
		0		0	0	0
4PI		0		0	0	0
		0		0	2.089	2.061
		4.068				

YSTR Amplification Kit(s) & Results

TABLE 3

WebCode-Test 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									
3BTN7P-5871		16	12,14	13	29	24	11	13	13
2	14	12	13	19		16	18		23
		12	13	17	18		23	10	12
3M9D6U-5871	Yfiler®								
		16	12,14	13	29	24	11	13	13
2	14	12	13	19		16	18		
							23		12
3NQD3-5876	Yfiler® Plus								
	35,36	16	12,14	13	29	24	11	13	13
2	14	12	13	19	31	16	18	10	23
	38	12		17	18	23	23		12
3QN2M7-5876	Yfiler®								
		16	12,14	13	29	24	11	13	13
2	14	12	13	19		16	18		
							23		12
48RZ3M-5876	Yfiler® Plus								
	35,36	16	12,14	13	29	24	11	13	13
2	14	12	13	19	31	16	18	10	23
	38	12		17	18	23	23		12
4FL9MD-5876	Yfiler® Plus								
	35,36	16	12,14	13	29	24	11	13	13
2	14	12	13	19	31	16	18	10	23
	38	12		17	18	23	23		12
4KQ2AZ-5876	Yfiler® Plus								
	35,36	16	12,14	13	29	24	11	13	13
2	14	12	13	19	31	16	18	10	23
	38	12		17	18	23	23		12
6E6BVE-5876	Yfiler® Plus								
	35,36	16	12,14	13	29	24	11	13	13
2	14	12	13	19	31	16	18	10	23
	38	12		17	18	23	23		12
6R3D3R-5876	PowerPlex® Y 23								
		16	12,14	13	29	24	11	13	13
2	14	12	13	19		16	18		23
		12	13	17	18		23	10	12

TABLE 3

WebCode-Test		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 2 - YSTR Results										
7JVZW4-5876		Yfiler® Plus								
		35,36	16	12,14	13	29	24	11	13	13
2		14	12	13	19	31	16	18	10	23
		38	12		17	18	23	23		12
86A38T-5871		Yfiler® Plus								
		35,36	16	12,14	13	29	24	11	13	13
2		14	12	13	19	31	16	18	10	23
		38	12		17	18	23	23		12
99RK3J-5871		Yfiler® Plus								
		35,36	16	12,14	13	29	24	11	13	13
2		14	12	13	19	31	16	18	10	23
		38	12		17	18	23	23		12
A4RVXG-5871		Yfiler® Plus								
		35,36	16	12,14	13	29	24	11	13	13
2		14	12	13	19	31	16	18	10	23
		38	12		17	18	23	23		12
BKQCHK-5871		Yfiler® Plus								
		35,36	16	12,14	13	29	24	11	13	13
2		14	12	13	19	31	16	18	10	23
		38	12		17	18	23	23		12
DM3W6P-5871		PowerPlex® Y 23								
			16	12,14	13	29	24	11	13	13
2		14	12	13	19		16	18		23
			12	13	17	18		23	10	12
EVTYLQ-5871		Yfiler® Plus								
		35,36	16	12,14	13	29	24	11	13	13
2		14	12	13	19	31	16	18	10	23
		38	12		17	18	23	23		12
F3GNEB-5871		PowerPlex® Y 23								
			16	12,14	13	29	24	11	13	13
2		14	12	13	19		16	18		23
			12	13	17	18		23	10	12
GL6PQP-5876		Yfiler®								
			16	12,14	13	29	24	11	13	13
2		14	12	13	19		16	18		23
								23		12
GL7PHC-5871		PowerPlex® Y 23								
		--	16	12,14	13	29	24	11	13	13
2		14	12	13	19	--	16	18	--	23
		--	12	13	17	18	--	23	10	12

TABLE 3

WebCode-Test		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 2 - YSTR Results										
GLPBE9-5876		Yfiler®								
	35,36	16	12,14	13	29	24	11	13	13	
2	14	12	13	19	31	16	18	10	23	
	38	12		17	18	23	23			12
HNP4LC-5871		Yfiler®								
		16	12,14	13	29	24	11	13	13	
2	14	12	13	19		16	18			
							23			12
LEUTB8-5871		Yfiler® Plus								
	35,36	16	12,14	13	29	24	11	13	13	
2	14	12	13	19	31	16	18	10	23	
	38	12		17	18	23	23			12
LNTXU9-5876		Yfiler® Plus								
	35,36	16	12,14	13	29	24	11	13	13	
2	14	12	13	19	31	16	18	10	23	
	38	12		17	18	23	23			12
LYHGHE-5871		Yfiler® Plus								
	35,36	16	12,14	13	29	24	11	13	13	
2	14	12	13	19	31	16	18	10	23	
	38	12		17	18	23	23			12
MT9KCJ-5876		PowerPlex® Y 23								
	-	16	12,14	13	29	24	11	13	13	
2	14	12	13	19	-	16	18	-	23	
	-	12	13	17	18	-	23	10		12
PAK7N7-5871		YFiler Plus								
	35,36	16	12,14	13	29	24	11	13	13	
2	14	12	13	19	31	16	18	10	23	
	38	12		17	18	23	23			12
PCC4YX-5871		Yfiler® Plus								
	35,36	16	12,14	13	29	24	11	13	13	
2	14	12	13	19	31	16	18	10	23	
	38	12		17	18	23	23			12
QBVAV3-5871		Yfiler® plus								
	35,36	16	12,14	13	29	24	11	13	13	
2	14	12	13	19	31	16	18	10	23	
	38	12		17	18	23	23			12
QTKPGN-5871		PowerPlex® Y 23								
		16	12,14	13	29	24	11	13	13	
2	14	12	13	19		16	18			23
			13	17	18		23	10		12

TABLE 3

WebCode-Test 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									
QWUJAX-5871	PowerPlex® Y 23 system								
		16	12,14	13	29	24	11	13	13
2	14	12	13	19		16	18		23
		12	13	17	18		23	10	12
RC94B3-5871	Yfiler® Plus								
	35,36	16	12,14	13	29	24	11	13	13
2	14	12	13	19	31	16	18	10	23
	38	12		17	18	23	23		12
RDPLUC-5876	PowerPlex® Y 23								
		16	12,14	13	29	24	11	13	13
2	14	12	13	19		16	18		23
		12	13	17	18		23	10	12
TH4JEF-5871	Yfiler®								
		16	12,14	13	29	24	11	13	13
2	14	12	13	19		16	18		
							23		12
TPNLLH-5871	PowerPlex® Y 23								
		16	12,14	13	29	24	11	13	13
2	14	12	13	19		16	18		23
		12	13	17	18		23	10	12
UNWDC3-5871	Yfiler®								
		16	12,14	13	29	24	11	13	13
2	14	12	13	19		16	18		
							23		12
WWGHXY-5871	PowerPlex® Y 23								
		16	12,14	13	29	24	11	13	13
2	14	12	13	19		16	18		23
		12	13	17	18		23	10	12
WXMKGM-5876	Yfiler® Plus								
	17	10	18	13	29	23	12	16	16
2	12	13	19	38	14	18	23	12,14	31
	13	13	23	35,36	12		11		24
X922LY-5871	Yfiler®								
		16	12,14	13	29	24	11	13	13
2	14	12	13	19		16	18		
							23		12
YPKEDW-5871	Yfiler®								
		16	12,14	13	29	24	11	13	13
2	14	12	13	19		16	18		
							23		12

TABLE 3

WebCode-Test	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 2 - YSTR Results

WebCode-Test	Yfiler®								
ZUEJQZ-5871		16	12,14	13	29	24	11	13	13
2	14	12	13	19		16	18		
							23		12

TABLE 3

WebCode-Test		Amplification Kit								
		DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Item		DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
		DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3 - YSTR Results										
3BTN7P-5871										
			16	12,14	13	29	24	11	13	13
3		14	12	13	19		16	18		23
			12	13	17	18		23	10	12
3M9D6U-5871 Yfiler®										
			16	12,14	13	29	24	11	13	13
3		14	12	13	19		16	18		23
								23		12
3NQD3-5876 Yfiler® Plus										
	35,36		16	12,14	13	29	24	11	13	13
3		14	12	13	19	31	16	18	10	23
	38		12		17	18	23	23		12
3QN2M7-5876 Yfiler®										
			16	12,14	13	29	24	11	13	13
3		14	12	13	19		16	18		23
								23		12
48RZ3M-5876 Yfiler® Plus										
	35,36		16	12,14	13	29	24	11	13	13
3		14	12	13	19	31	16	18	10	23
	38		12		17	18	23	23		12
4FL9MD-5876 Yfiler® Plus										
	35,36		16	12,14	13	29	24	11	13	13
3		14	12	13	19	31	16	18	10	23
	38		12		17	18	23	23		12
4KQ2AZ-5876 Yfiler® Plus										
	35,36		16	12,14	13	29	24	11	13	13
3		14	12	13	19	31	16	18	10	23
	38		12		17	18	23	23		12
6E6BVE-5876 Yfiler® Plus										
	35,36		16	12,14	13	29	24	11	13	13
3		14	12	13	19	31	16	18	10	23
	38		12		17	18	23	23		12
6R3D3R-5876 PowerPlex® Y 23										
			16	12,14	13	29	24	11	13	13
3		14	12	13	19		16	18		23
			12	13	17	18		23	10	12
7JVZ4-5876 Yfiler® Plus										
	35,36		16	12,14	13	29	24	11	13	13
3		14	12	13	19	31	16	18	10	23
	38		12		17	18	23	23		12

TABLE 3

WebCode-Test 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									
86A38T-5871	Yfiler® Plus								
	35,36	16	12,14	13	29	24	11	13	13
3	14	12	13	19	31	16	18	10	23
	38	12		17	18	23	23		12
99RK3J-5871	Yfiler® Plus								
	35,36	16	12,14	13	29	24	11	13	13
3	14	12	13	19	31	16	18	10	23
	38	12		17	18	23	23		12
A4RVXG-5871	Yfiler® Plus								
	35,36	16	12,14	13	29	24	11	13	13
3	14	12	13	19	31	16	18	10	23
	38	12		17	18	23	23		12
BKQCHK-5871	Yfiler® Plus								
	35,36	16	12,14	13	29	24	11	13	13
3	14	12	13	19	31	16	18	10	23
	38	12		17	18	23	23		12
DM3W6P-5871	PowerPlex® Y 23								
		16	12,14	13	29	24	11	13	13
3	14	12	13	19		16	18		23
		12	13	17	18		23	10	12
EVTYLQ-5871	Yfiler® Plus								
	35,36	16	12,14	13	29	24	11	13	13
3	14	12	13	19	31	16	18	10	23
	38	12		17	18	23	23		12
F3GNEB-5871	PowerPlex® Y 23								
		16	12,14	13	29	24	11	13	13
3	14	12	13	19		16	18		23
		12	13	17	18		23	10	12
GL6PQP-5876	Yfiler®								
		16	12,14	13	29	24	11	13	13
3	14	12	13	19		16	18		23
							23		12
GL7PHC-5871	PowerPlex® Y 23								
	--	16	12,14	13	29	24	11	13	13
3	14	12	13	19	--	16	18	--	23
	--	12	13	17	18	--	23	10	12
GLPBE9-5876	Yfiler®								
	35,36	16	12,14	13	29	24	11	13	13
3	14	12	13	19	31	16	18	10	23
	38	12		17	18	23	23		12

TABLE 3

WebCode-Test		Amplification Kit								
		DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Item		DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
		DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3 - YSTR Results										
HNP4LC-5871	Yfiler®									
		16	12,14	13	29	24	11	13	13	
3		14	12	13	19	16	18	23		12
LEUTB8-5871	Yfiler® Plus									
		35,36	16	12,14	13	29	24	11	13	13
3		14	12	13	19	31	16	18	10	23
		38	12		17	18	23	23		12
LNTXU9-5876	Yfiler® Plus									
		35,36	16	12,14	13	29	24	11	13	13
3		14	12	13	19	31	16	18	10	23
		38	12		17	18	23	23		12
LYHGHE-5871	Yfiler® Plus									
		35,36	16	12,14	13	29	24	11	13	13
3		14	12	13	19	31	16	18	10	23
		38	12		17	18	23	23		12
MT9KCIJ-5876	PowerPlex® Y 23									
		-	16	12,14	13	29	24	11	13	13
3		14	12	13	19	-	16	18	-	23
		-	12	13	17	18	-	23	10	12
PAK7N7-5871	YFiler Plus									
		35,36	16	12,14	13	29	24	11	13	13
3		14	12	13	19	31	16	18	10	23
		38	12		17	18	23	23		12
PCC4YX-5871	Yfiler® Plus									
		35,36	16	12,14	13	29	24	11	13	13
3		14	12	13	19	31	16	18	10	23
		38	12		17	18	23	23		12
QBVAV3-5871	Yfiler® Plus									
		35,36	16	12,14	13	29	24	11	13	13
3		14	12	13	19	31	16	18	10	23
		38	12		17	18	23	23		12
QTKPGN-5871	PowerPlex® Y 23									
		16	12,14	13	29	24	11	13	13	
3		14	12	13	19	16	18	23		23
		12	13	17	18		23	10	12	
QWUJAX-5871	PowerPlex® Y 23 system									
		16	12,14	13	29	24	11	13	13	
3		14	12	13	19	16	18	23		23
		12	13	17	18		23	10	12	

TABLE 3

WebCode-Test 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									
RC94B3-5871	Yfiler® Plus								
	35,36	16	12,14	13	29	24	11	13	13
3	14	12	13	19	31	16	18	10	23
	38	12		17	18	23	23		12
RDPLUC-5876	PowerPlex® Y 23								
		16	12,14	13	29	24	11	13	13
3	14	12	13	19		16	18		23
		12	13	17	18		23	10	12
TH4JEF-5871	Yfiler®								
		16	12,14	13	29	24	11	13	13
3	14	12	13	19		16	18		
							23		12
TPNLLH-5871	PowerPlex® Y 23								
		16	12,14	13	29	24	11	13	13
3	14	12	13	19		16	18		23
		12	13	17	18		23	10	12
UNWDC3-5871	Yfiler®								
		16	12,14	13	29	24	11	13	13
3	14	12	13	19		16	18		
							23		12
WWGHXY-5871	PowerPlex® Y 23								
		16	12,14	13	29	24	11	13	13
3	14	12	13	19		16	18		23
		12	13	17	18		23	10	12
WXMKGM-5876	Yfiler® Plus								
	35,36	16	12,14	13	29	24	11	13	13
3	14	12	13	19	31	16	18	10	23
	38	12		17	18	23	23		12
X922LY-5871	Yfiler®								
		16	12,14	13	29	24	11	13	13
3	14	12	13	19		16	18		
							23		12
YPKEDW-5871	Yfiler®								
		16	12,14	13	29	24	11	13	13
3	14	12	13	19		16	18		
							23		12
ZUEJQZ-5871	Yfiler®								
		16	12,14	13	29	24	11	13	13
3	14	12	13	19		16	18		
							23		12

TABLE 3

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

Item 4 - YSTR Results

3BTN7P-5871									
		14	11,14	12	28	24	10	13	13
4	15	12	13	19		16	16		22
		12	14	18	18		23	10	11
3M9D6U-5871 Yfiler®									
		14	11,14	12	28	24	10	13	13
4	15	12	13	19		16	16		
							23		11
3NQD3-5876 Yfiler® Plus									
	35,37	14	11,14	12	28	24	10	13	13
4	15	12	13	19	31	16	16	11	22
	37	12		18	18	22	23		11
3QN2M7-5876 Yfiler®									
		14	11,14	12	28	24	10	13	13
4	15	12	13	19		16	16		
							23		11
48RZ3M-5876 Yfiler® Plus									
	35,37	14	11,14	12	28	24	10	13	13
4	15	12	13	19	31	16	16	11	22
	37	12		18	18	22	23		11
4FL9MD-5876 Yfiler® Plus									
	35,37	14	11,14	12	28	24	10	13	13
4	15	12	13	19	31	16	16	11	22
	37	12		18	18	22	23		11
4KQ2AZ-5876 Yfiler® Plus									
	35,37	14	11,14	12	28	24	10	13	13
4	15	12	13	19	31	16	16	11	22
	37	12		18	18	22	23		11
6E6BVE-5876 Yfiler® Plus									
	35,37	14	11,14	12	28	24	10	13	13
4	15	12	13	19	31	16	16	11	22
	37	12		18	18	22	23		11
6R3D3R-5876 PowerPlex® Y 23									
		14	11,14	12	28	24	10	13	13
4	15	12	13	19		16	16		22
		12	14	18	18		23	10	11
7JVZW4-5876 Yfiler® Plus									
	35,37	14	11,14	12	28	24	10	13	13
4	15	12	13	19	31	16	16	11	22
	37	12		18	18	22	23		11

TABLE 3

WebCode-Test 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									
86A38T-5871	Yfiler® Plus								
	35,37	14	11,14	12	28	24	10	13	13
4	15	12	13	19	31	16	16	11	22
	37	12		18	18	22	23		11
99RK3J-5871	Yfiler® Plus								
	35,37	14	11,14	12	28	24	10	13	13
4	15	12	13	19	31	16	16	11	22
	37	12		18	18	22	23		11
A4RVXG-5871	Yfiler® Plus								
	35,37	14	11,14	12	28	24	10	13	13
4	15	12	13	19	31	16	16	11	22
	37	12		18	18	22	23		11
BKQCHK-5871	Yfiler® Plus								
	35,37	14	11,14	12	28	24	10	13	13
4	15	12	13	19	31	16	16	11	22
	37	12		18	18	22	23		11
DM3W6P-5871	PowerPlex® Y 23								
		14	11,14	12	28	24	10	13	13
4	15	12	13	19		16	16		22
		12	14	18	18		23	10	11
EVTYLQ-5871	Yfiler® Plus								
	35,37	14	11,14	12	28	24	10	13	13
4	15	12	13	19	31	16	16	11	22
	37	12		18	18	22	23		11
F3GNEB-5871	PowerPlex® Y 23								
		14	11,14	12	28	24	10	13	13
4	15	12	13	19		16	16		22
		12	14	18	18		23	10	11
GL6PQP-5876	Yfiler®								
		14	11,14	12	28	24	10	13	13
4	15	12	13	19		16	16		
							23		11
GL7PHC-5871	PowerPlex® Y 23								
	--	14	11,14	12	28	24	10	13	13
4	15	12	13	19	--	16	16	--	22
	--	12	14	18	18	--	23	10	11
GLPBE9-5876	Yfiler®								
	35,37	14	11,14	12	28	24	10	13	13
4	15	12	13	19	31	16	16	11	22
	37	12		18	18	22	23		11

TABLE 3

WebCode-Test		Amplification Kit								
		DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
Item		DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
		DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4 - YSTR Results										
HNP4LC-5871	Yfiler®									
		14	11,14	12	28	24	10	13	13	
4		15	12	13	19	16	16	23		11
LEUTB8-5871	Yfiler® Plus									
		35,37	14	11,14	12	28	24	10	13	13
4		15	12	13	19	31	16	16	11	22
		37	12		18	18	22	23		11
LNTXU9-5876	Yfiler® Plus									
		35,37	14	11,14	12	28	24	10	13	13
4		15	12	13	19	31	16	16	11	22
		37	12		18	18	22	23		11
LYHGHE-5871	Yfiler® Plus									
		35,37	14	11,14	12	28	24	10	13	13
4		15	12	13	19	31	16	16	11	22
		37	12		18	18	22	23		11
MT9KCIJ-5876	PowerPlex® Y 23									
		-	14	11,14	12	28	24	10	13	13
4		15	12	13	19	-	16	16	-	22
		-	12	14	18	18	-	23	10	11
PAK7N7-5871	YFiler Plus									
		35,37	14	11,14	12	28	24	10	13	13
4		15	12	13	19	31	16	16	11	22
		37	12		18	18	22	23		11
PCC4YX-5871	Yfiler® Plus									
		35,37	14	11,14	12	28	24	10	13	13
4		15	12	13	19	31	16	16	11	22
		37	12		18	18	22	23		11
QBVAV3-5871	Yfiler® Plus									
		35,37	14	11,14	12	28	24	10	13	13
4		15	12	13	19	31	16	16	11	22
		37	12		18	18	22	23		11
QTKPGN-5871	PowerPlex® Y 23									
			14	11,14	12	28	24	10	13	13
4		15	12	13	19		16	16		22
			12	14	18	18		23	10	11
QWUJAX-5871	PowerPlex® Y 23 system									
			14	11,14	12	28	24	10	13	13
4		15	12	13	19		16	16		22
			12	14	18	18		23	10	11

TABLE 3

WebCode-Test		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4 - YSTR Results									
RC94B3-5871	Yfiler® Plus								
	35,37	14	11,14	12	28	24	10	13	13
4	15	12	13	19	31	16	16	11	22
	37	12		18	18	22	23		11
RDPLUC-5876	PowerPlex® Y 23								
		14	11,14	12	28	24	10	13	13
4	15	12	13	19		16	16		22
		12	14	18	18		23	10	11
TH4JEF-5871	Yfiler®								
		14	11,14	12	28	24	10	13	13
4	15	12	13	19		16	16		
							23		11
TPNLLH-5871	PowerPlex® Y 23								
		14	11,14	12	28	24	10	13	13
4	15.1	12	13	19		16	16		22
		12	14	18	18		23	10	11
UNWDC3-5871	Yfiler®								
		14	11,14	12	28	24	10	13	13
4	15	12	13	19		16	16		
							23		11
WWGHXY-5871	PowerPlex® Y 23								
		14	11,14	12	28	24	10	13	13
4	15	12	13	19		16	16		22
		12	14	18	18		23	10	11
WXMKGM-5876	Yfiler® Plus								
	35,37	14	11,14	12	28	24	10	13	13
4	15	12	13	19	31	16	16	11	22
	37	12		18	18	22	23		11
X922LY-5871	Yfiler®								
		14	11,14	12	28	24	10	13	13
4	15	12	13	19		16	16		
							23		11
YPKEDW-5871	Yfiler®								
		14	11,14	12	28	24	10	13	13
4	15	12	13	19		16	16		
							23		11
ZUEJQZ-5871	Yfiler®								
		14	11,14	12	28	24	10	13	13
4	15	12	13	19		16	16		
							23		11

Additional DNA & PI Results

TABLE 4

Locus	WebCode-Test	Item 1	Item 2	Item 3	Item 3 PI	Item 4	Item 4 PI
D10S1435	LNTXU9-5876	7,12	7,12	11,12	1.1099	12,12	
D10S2325	6R3D3R-5876	6,7	6,15	12,15	13.5135	12,13	0
	LNTXU9-5876	6,7	6,15	12,15	12.8000	12,13	
D11S2368	LNTXU9-5876	18,19	19,19	18,19	1.7119	18,21	
D13S325	LNTXU9-5876	21,21	18,21	18,19	9.1818	20,22	
D14S1434	LNTXU9-5876	10,13	10,12	12,13	6.7333	14,14	
D15S659	LNTXU9-5876	12,12	12,13	13,14	3.8846	12,16	
D17S1301	LNTXU9-5876	11,12	11,13	12,13	2.1957	11,12	
D18S1364	LNTXU9-5876	14,17	13,17	13,14	3.8846	14,15	
D19S253	LNTXU9-5876	13,14	13,13	10,13	2.4634	11,13	
D20S482	LNTXU9-5876	13,15	14,15	14,14	2.1720	14,15	
D21S2055	6R3D3R-5876	20.1,25	19.1,20.1	19.1,26	1.8248	21.1,34	0
	LNTXU9-5876	20.1,25	19.1,20.1	19.1,26	10.1000	21.1,34	
D22GATA198B05	LNTXU9-5876	17,22	20,22	18,20	2.7297	22,23	
D2S1360	6R3D3R-5876	22,25	25,25	25,27	5.8140	19,22	0
	LNTXU9-5876	22,25	25,25	25,27	12.8000	19,22	
D3S1744	6R3D3R-5876	14,16	16,17	16,17	1.5674	14,17	1.5674
	LNTXU9-5876	14,16	16,17	16,17	1.3289	14,17	
D3S3045	LNTXU9-5876	12,13	9,13	9,12	6.3125	11,11	
D4S2366	6R3D3R-5876	14,14	9,14	9,9	2.8818	13,14	0
	LNTXU9-5876	14,14	9,14	9,9	6.7333	13,14	
D5S2500	6R3D3R-5876	11,12	11,12	11,12	2.1097	13,13	0
	LNTXU9-5876	11,12	11,12	11,12	2.1322	13,13	
D5S2800	LNTXU9-5876	17,17	17,18	17,18	3.4828	18,18	
D6S474	6R3D3R-5876	13,17	13,16	16,16	3.5088	14,16	1.7544
	LNTXU9-5876	13,17	13,16	16,16	7.0922	14,16	
D6S477	LNTXU9-5876	15,16	15,16	16,16	3.0606	15,16	
D7S1517	6R3D3R-5876	21,25	21,25	23,25	1.5198	22,22	0
	LNTXU9-5876	21,25	21,25	23,25	1.6022	22,22	
D7S3048	LNTXU9-5876	20,23	23,23	23,24	3.8846	22,24	
D8S1132	6R3D3R-5876	19,19	19,20	20,23	3.9063	17,21	0
	LNTXU9-5876	19,19	19,20	20,23	4.3913	17,21	
D9S1122	LNTXU9-5876	11,13	13,13	11,13	1.7119	12,14	
F13A01	LNTXU9-5876	6,7	4,6	4,5	6.0513	4,6	
F13B	LNTXU9-5876	7,10	7,10	8,10	1.0876	9,10	
FESFPS	LNTXU9-5876	10,11	10,11	11,11	1.4984	10,10	

TABLE 4

Locus	WebCode-Test	Item 1	Item 2	Item 3	Item 3 PI	Item 4	Item 4 PI
LPL	LNTXU9-5876	10,10	9,10	9,10	11.8000	10,10	
PENTA C	LNTXU9-5876	9,11	9,11	11,14	0.9042	10,13	

Paternity DNA Statistics & Conclusions

TABLE 5

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
2JP2QY-5871	Item 3 - Alleged Father A	1.937052008e+013	>99.99999999	NIST-STRBASE
3BTN7P-5871	Item 3 - Alleged Father A			[Location Identifying Database]
3M9D6U-5871	Item 3 - Alleged Father A	1.19 trillion	99.9%	NIST-STRBASE
3NQD3-5876	Item 3 - Alleged Father A	6,036,671,419,383	99.99%	[Location Identifying Database]
3QN2M7-5876	Item 3 - Alleged Father A	1.58E+12	99.99999999994%	NIST-STRBASE
3VF94T-5871	Item 3 - Alleged Father A	1.559E+012		NIST-STRBASE
48RZ3M-5876	Item 3 - Alleged Father A	493154353453.422	99.99%	NIST-STRBASE
4FL9MD-5876	Item 3 - Alleged Father A	547 billion	99.999999999817%	FBI PopStats
4KQ2AZ-5876	Item 3 - Alleged Father A	2.30E+12	99.99999999996%	NIST-STRBASE
6ABCGJ-5871	Item 3 - Alleged Father A	1,296,732,470	99.99%	NIST General population
6E6BVE-5876	Item 3 - Alleged Father A	547,600,000,000	99.999999999817	NIST-STRBASE
6R3D3R-5876	Item 3 - Alleged Father A	1.1E+20	> 99.999999%	Laboratory specific database
6U2LK7-5876	Item 3 - Alleged Father A	1,169,744,429	99.9999	NIST-STRBASE
7JVZW4-5876	Item 3 - Alleged Father A	193,951,900	99.99%	[Laboratory Identifying Database]
86A38T-5871	Item 3 - Alleged Father A	116,700,000,000	>99.99%	FBI PopStats
99RK3J-5871	Item 3 - Alleged Father A	116,700,000,000	>99.99%	FBI PopStats
9HUP9E-5876	Item 3 - Alleged Father A	76,990,000,000	99.999999998701	FBI PopStats
A4RVXG-5871	Item 3 - Alleged Father A	116.7 billion	> 99.99%	FBI PopStats
AGERET-5871	Item 3 - Alleged Father A	284,114,981.2	99.9999%	NIST-STRBASE

TABLE 5 - Paternity DNA Statistics & Conclusions

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
B7C6KM-5871	Item 3 - Alleged Father A	18.4 billion	99.999999994592%	NIST-STRBASE
BKQCHK-5871	Item 3 - Alleged Father A	>100 billion		NIST-STRBASE
BTUJMP-5871	Item 3 - Alleged Father A	3.67928E+11	0.999999999997	NIST-STRBASE
BXHYRL-5871	Item 3 - Alleged Father A	54760000000	99.99999999817	NIST-STRBASE
DM3W6P-5871	Item 3 - Alleged Father A	493,358,396,907	99.999999998%	NIST-STRBASE
EVTYLQ-5871	Item 3 - Alleged Father A	7310667200000	99,999999999	NIST-STRBASE
F3GNEB-5871	Item 3 - Alleged Father A	15040609630591.1	99.99999999993%	NIST-STRBASE
G8QJFP-5871	Item 3 - Alleged Father A	541 297 350 411	99.999999998	STRidER2.0
GAFQZM-5876	Item 3 - Alleged Father A	19 billion		NIST-STRBASE
GL6PQP-5876	Item 3 - Alleged Father A	19 Billion		NIST-STRBASE
GL7PHC-5871	Item 3 - Alleged Father A	895000000000	99.9999999	FBI PopStats, Promega/NIST
GLPBE9-5876	Item 3 - Alleged Father A	492,959,751,428.0120	99.9999%	NIST-STRBASE
HEXMX9-5876	Item 3 - Alleged Father A	2.91e8	99.999998	Hispanic
HNP4LC-5871	Item 3 - Alleged Father A	1.19 trillion	99.9%	NIST-STRBASE
HXEKLE-5871	Item 3 - Alleged Father A	5E11	lab does not report	FBI PopStats
JCABX3-5876	Item 3 - Alleged Father A	47919475651101.70	99.99999999997900	in house database
JDKDK2-5876	Item 3 - Alleged Father A	76,990,000,000	99.999999998701%	FBI PopStats
K2E3VF-5871	Item 3 - Alleged Father A	3.67928E+11	0.999999999997	NIST-STRBASE
LEUTB8-5871	Item 3 - Alleged Father A	116,700,000,000	>99.99%	FBI PopStats
LNTXU9-5876	Item 3 - Alleged Father A	4853200949630890000000 00000000.00	99.99999999999990	NIST-STRBASE, laboratory specific database where not on NIST

TABLE 5 - Paternity DNA Statistics & Conclusions

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
LYHGHE-5871	Item 3 - Alleged Father A	116.7 billion	>99.99%	FBI PopStats
MT9K CJ-5876	Item 3 - Alleged Father A	1.2 trillion	99.99%	NIST-STRBASE
N42L4E-5876	Item 3 - Alleged Father A	19,000,000,000		NIST-STRBASE
NWZBQU-5871	Item 3 - Alleged Father A	3.59149E10	99.99999999%	NIST-STRBASE
PAK7N7-5871	Item 3 - Alleged Father A	518,800,000,000	99.999999998072	FBI PopStats
PCC4YX-5871	Item 3 - Alleged Father A	25136525592	100%	local database
PV49J6-5871	Item 3 - Alleged Father A			FBI PopStats
QBVAV3-5871	Item 3 - Alleged Father A	518,800,000,000	99.99999999807	FBI PopStats
QTKPGN-5871	Item 3 - Alleged Father A	857,436,959,867	99.9999%	Laboratory-specific database
QWUJAX-5871	Item 3 - Alleged Father A	1.938E+11	99.999	NIST-STRBASE
RC94B3-5871	Item 3 - Alleged Father A	35,000,000,000		NIST_Hispanic
RDPLUC-5876	Item 3 - Alleged Father A	1.19E+13	0.99999	[Identifying Location]_STRidER
RHAEL2-5871	Item 3 - Alleged Father A	7.1240E+12	>99.9999999999	FBI PopStats
RJ3A64-5871	Item 3 - Alleged Father A	1.559E12		NIST-STRBASE
TH4JEF-5871	Item 3 - Alleged Father A	4.9284E+11	99.9999%	NIST-STRBASE
TKTPYC-5876	Item 3 - Alleged Father A	19 Billion		NIST-STRBASE
TPNLLH-5871	Item 3 - Alleged Father A	757,287,499,602.9840	99.9999	FBI PopStats
TUY2LT-5876	Item 3 - Alleged Father A	76,990,000,000	99.999999998701%	FBI PopStats
UNWDC3-5871	Item 3 - Alleged Father A	598,959,444,135	99.9999999998%	STRider (STRs for Identity ENFSI Reference Database)
WC8XZA-5871	Item 3 - Alleged Father A	547,600,000,000	>99.99%	NIST-STRBASE

TABLE 5 - Paternity DNA Statistics & Conclusions

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
WJMLQ6-5871		40602904154.2398	99.99%	NIST-STRBASE
WWGHXY-5871	Item 3 - Alleged Father A	7.3100E+12	>99.9999999999	NIST-STRBASE
WXMKGM-5876	Item 3 - Alleged Father A	547600000000	99.9	FBI PopStats
X922LY-5871	Item 3 - Alleged Father A	1.19 trillion	99.9%	NIST-STRBASE
XC6P6V-5871	Item 3 - Alleged Father A	1,146,130,072,648	99.9999999998%	[Location Identifying Database]
YCYV4Z-5876	Item 3 - Alleged Father A	1.6020E+12	>99.9999999999	FBI PopStats
YE7ZV4-5876	Item 3 - Alleged Father A			NIST-STRBASE
YPKEDW-5871	Item 3 - Alleged Father A	1.19 trillion	99.9%	NIST-STRBASE
Z7QW3V-5871	Item 3 - Alleged Father A	1.559e12	0.975	NIST-STRBASE
ZUEJQZ-5871	Item 3 - Alleged Father A	81,050,000,000	99.999999998766%	FBI PopStats

Paternity DNA Statistics Response Summary		Participants: 69
<i>Which of the alleged fathers cannot be excluded as the biological parent of Item 2?</i>		
Responses	Item 3 - Alleged Father A	68
	Item 4 - Alleged Father B	0
	Inconclusive	0
	No Response	1

Kinship Likelihood Ratio Results

TABLE 6

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D1S1656	2JP2QY-5871	$k1 + 2k0a/2a$	$a = 14$	0.9858
	3QN2M7-5876	$(1 + 4p)/8p$	$p = 14$	0.9858
	48RZ3M-5876	$R=c(k1)+2ac(k0),U=2ac,HSI=R/U$	A=14 B=16.3 C=13 K1=0.25 K0=0.5	0.986
	4FL9MD-5876	$(1 + 4p)/8p$	$p = 14$	0.98581
	4KQ2AZ-5876	$(1 + 4p)/8p$	$p = 14$	0.986
	6E6BVE-5876	$(1 + 4p)/8p$	$p = 14$	0.98581
	6R3D3R-5876	$(1 + 4p)/8p$	$p = 14$	0.98581
	6U2LK7-5876	$(1 + 4p)/8p$	$P = 14$	0.9858
	86A38T-5871	$(1 + 4p)/8p$	$p = 14$	0.9858
	99RK3J-5871	$(1 + 4p)/8p$	$p = 14$	0.98581
	A4RVXG-5871	$(1 + 4p)/8p$	$P = 14$	0.98581
	AGERET-5871	$(1 + 4p)/8p$	$p = 14$	0.9858
	BKQCHK-5871	$(Z1/4pa)+Z0$	$a = 14$	0.9858
	DM3W6P-5871			0.9858
	EVTYLQ-5871	$(1 + 4p)/8p$	$p = 14$	0.9858
	F3GNEB-5871	$(1 + 4p)/8p$	$p = 14$	0.9858
	G8QJFP-5871	$(0.25 + p)/2p$	$p = 14$	0.9858
	GAFQZM-5876	*	*	0.9821
	GL6PQP-5876	*	*	0.9821
	GL7PHC-5871	$(1 + 4q)/8q$	$14 = 0.2573$	0.9858
	GLPBE9-5876	$(1 + 4p)/8p$	$p = 14$	0.9858
JCABX3-5876	$(1 + 4p)/8p$	$p = 14$	0.985814225	
LEUTB8-5871	$(1 + 4p)/8p$	$p = 14$	0.98581	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D1S1656	LNTXU9-5876	$(1+4p)/8p$	$p=14$	0.9858
	LYHGHE-5871	$(1+4p)/8p$	$p=14$	0.9858
	N42L4E-5876	*	*	0.9821
	NWZBQU-5871	$(1+4p)/8p$	$p=14$	0.985814225
	PAK7N7-5871	$(0.25+a)/2a$	$a=14$ $b=16.3$ $c=13$	0.9858
	PCC4YX-5871	$(1+4p)/8p$	$p=14$	0.985814
	QBVAV3-5871	$(0.25+a)/2a$	$a=14$	0.98581
	QTKPGN-5871	$(1+4p)/8p$	$p=14$	0.9858
	RC94B3-5871	$(1+4p)/8p$	$p=14$	0.9858
	TH4JEF-5871	$(1+4q)/8q$	$q=14$	0.9858
	TKTPYC-5876	*	*	0.9821
	TPNLLH-5871	$(1+4p)/8p$	$p=14$	0.9858
	UNWDC3-5871	$(1+4p)/8p$	$p=14$	0.9858
	WWGHXY-5871	$(K1+2K0a)/2a$	$a=14$	0.985814225
	WXMKGM-5876	$(1+4p)/8p$	$p=14$	0.9858

Statistical Analysis Summary of D1S1656
Likelihood Ratio Mode: 0.9858

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D2S1338	2JP2QY-5871	$k1 + 2k0a/2a$	$a = 22$	1.410
	3QN2M7-5876	$(1 + 4p)/8p$	$p=22$	1.410
	48RZ3M-5876	$R=c(k1)+2ac(k0),U=2ac,HSI=R/U$	A=22 B=16 C=21 K1=0.25 K0=0.5	1.410
	4FL9MD-5876	$(1 + 4p)/8p$	$p=22$	1.4098
	4KQ2AZ-5876	$(1 + 4p)/8p$	$p=22$	1.410
	6E6BVE-5876	$(1 + 4p)/8p$	$p=22$	1.4098
	6R3D3R-5876	$(1 + 4p)/8p$	$p=22$	1.40975
	6U2LK7-5876	$(1 + 4p)/8p$	$P = 22$	1.4097
	86A38T-5871	$(1 + 4p)/8p$	$p=22$	1.4098
	99RK3J-5871	$(1 + 4p)/8p$	$p=22$	1.4098
	A4RVXG-5871	$(1 + 4p)/8p$	$p=22$	1.4098
	AGERET-5871	$(1 + 4p)/8p$	$p=22$	1.409
	BKQCHK-5871	$(Z1/4pa)+Z0$	$a=22$	1.4098
	DM3W6P-5871			1.4096
	EVTYLQ-5871	$(1 + 4p)/8p$	$p=22$	1.4097
	F3GNEB-5871	$(1 + 4p)/8p$	$p=22$	1.4098
	G8QJFP-5871	$(0.25 + p)/2p$	$p=22$	1.4098
	GAFQZM-5876	*	*	1.373
	GL6PQP-5876	*	*	1.373
	GL7PHC-5871	$(1 + 4v)/8v$	$22=0.1374$	1.4098
	GLPBE9-5876	$(1 + 4p)/8p$	$p=22$	1.4098
	JCABX3-5876	$(1 + 4p)/8p$	$p=22$	1.409752547
	LEUTB8-5871	$(1 + 4p)/8p$	$p = 22$	1.4098
	LNTXU9-5876	$(1 + 4p)/8p$	$p=22$	1.4098

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D2S1338	LYHGHE-5871	$(1+4p)/8p$	$p = 22$	1.4098
	N42L4E-5876	*	*	1.3735
	NWZBQU-5871	$(1+4p)/8p$	$p=22$	1.409752547
	PAK7N7-5871	$(0.25+a)/2a$	$a=22$ $b=16$ $c=21$	1.4098
	PCC4YX-5871	$(1+4p)/8p$	$p=22$	1.409753
	QBVAV3-5871	$(0.25+c)/2c$	$c = 22$	1.4098
	QTKPGN-5871	$(1+4p)/8p$	$p=22$	1.4097
	RC94B3-5871	$(1+4p)/8p$	$p=22$	1.4098
	TH4JEF-5871	$(1+4v)/8v$	$v=22$	1.4097
	TKTPYC-5876	*	*	1.373
	TPNLLH-5871	$(1+4p)/8p$	$p=16$	1.4098
	UNWDC3-5871	$(1+4p)/8p$	$p=22$	1.4098
	WWGHXY-5871	$(K1+2K0a)/2a$	$a=22$	1.409752547
	WXMKGM-5876	$(1+4p)/8p$	$p=22$	1.409

Statistical Analysis Summary of D2S1338
Likelihood Ratio Mode: 1.4098

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D2S441	2JP2QY-5871	$k2+k1a+k1b+k02ab/2ab$	$a = 11 \quad b = 14$	1.312
	3QN2M7-5876	$(p+q+4pq)/8pq$	$p=11 \quad q=14$	1.312
	48RZ3M-5876	$R=a(k1)+b(k1)+2ab(k0), U=2a$ $b, HSI=R/U$	$A=11 \quad B=14 \quad K1=0.25 \quad K0=0.5$	1.312
	4FL9MD-5876	$(p+q+4pq)/8pq$	$p=11 \quad q=14$	1.3120
	4KQ2AZ-5876	$(p+q+4pq)/8pq$	$p=11 \quad q=14$	1.312
	6E6BVE-5876	$(p+q+4pq)/8pq$	$p=11 \quad q=14$	1.3120
	6R3D3R-5876	$(p+q+4pq)/8pq$	$p=11 \quad q=14$	1.31202
	6U2LK7-5876	$(p+q+4pq)/8pq$	$P = 11 \quad Q = 14$	1.3120
	86A38T-5871	$(p+q+4pq)/8pq$	$p=11 \quad q=14$	1.3120
	99RK3J-5871	$(p+q+4pq)/8pq$	$p=11 \quad q=14$	1.3121
	A4RVXG-5871	$(p+q+4pq)/8pq$	$p=11 \quad q=14$	1.3120
	AGERET-5871	$(p+q+4pq)/8pq$	$p=11 \quad q=14$	1.312
	BKQCHK-5871	$((2*Z2)+Z1(pa+pb))/$ $(4(pa*pb)))+Z0$	$a=11 \quad b=14$	1.3120
	DM3W6P-5871			1.3120
	EVTYLQ-5871	$(p+q+4pq)/8pq$	$p=11 \quad q=14$	1.3120
	F3GNEB-5871	$(p+q+4pq)/8pq$	$p=11 \quad q=14$	0.8561
	G8QJFP-5871	$(0.25(p+q)+pq)/2pq$	$p=11 \quad q=14$	1.3120
	GAFQZM-5876	*	*	1.310
	GL6PQP-5876	*	*	1.310
	GL7PHC-5871	$(p+s+4ps)/8ps$	$11=0.3626 \quad 14=0.2675$	1.3120
	GLPBE9-5876	$(p+q+4pq)/8pq$	$p=11 \quad q=14$	1.3121
	JCABX3-5876	$(p+q+4pq)/8pq$	$p=11 \quad q=14$	1.312022207
	LEUTB8-5871	$(p+q+4pq)/8pq$	$p = 11 \quad q = 14$	1.3120
LNTXU9-5876	$(p+q+4pq)/8pq$	$p=11 \quad q=14$	1.3120	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D2S441	LYHGHE-5871	$(p+q+4pq)/8pq$	$p = 11 \quad q = 14$	1.3120
	N42L4E-5876	*	*	1.3102
	NWZBQU-5871	$(p+q+4pq)/8pq$	$p=11 \quad q=14$	1.312022207
	PAK7N7-5871	$(0.25a+0.25b+ab)/2ab$	$a=11 \quad b=14$	1.3120
	PCC4YX-5871	$(p+q+4pq)/8pq$	$p=11 \quad q=14$	1.312022
	QBVAV3-5871	$(0.25a+0.25b+ab)/2ab$	$a = 11 \quad b = 14$	1.3120
	QTKPGN-5871	$(p+q+4pq)/8pq$	$p=11 \quad q=14$	1.3120
	RC94B3-5871	$(4pq+p+q)/8pq$	$p=11 \quad q=14$	1.3120
	TH4JEF-5871	$(p+s+4ps)/8ps$	$p=11 \quad s=14$	1.3120
	TKTPYC-5876	*	*	1.310
	TPNLLH-5871	$(p+q+4pq)/8pq$	$p=11 \quad q=14$	1.3120
	UNWDC3-5871	$(p+q+4pq)/8pq$	$p=11 \quad q=14$	1.3120
	WWGHXY-5871	$(K1a+K1b+K02ab)/2ab$	$a=11 \quad b=14$	1.312022207
	WXMKGM-5876	$(p+q+4pq)/8pq$	$p=11 \quad q=14$	1.312

Statistical Analysis Summary of D2S441
Likelihood Ratio Mode: 1.3120

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D3S1358	2JP2QY-5871	$k1 + k0a/a$	$a = 16$	1.284
	3QN2M7-5876	$(1 + 2p)/4p$	$p = 16$	1.284
	48RZ3M-5876	$R = b(k1) + b(k1) + 2ab(k0), U = 2a$ $b, HSI = R/U$	$A = 16 \ B = 15 \ K1 = 0.25 \ K0 = 0.5$	1.284
	4FL9MD-5876	$(1 + 2p)/4p$	$p = 16$	1.2844
	4KQ2AZ-5876	$(1 + 2p)/4p$	$p = 16$	1.284
	6E6BVE-5876	$(1 + 2p)/4p$	$p = 16$	1.2844
	6R3D3R-5876	$(1 + 2p)/4p$	$p = 16$	1.28444
	6U2LK7-5876	$(1 + 2p)/4p$	$P = 16$	1.2844
	86A38T-5871	$(1 + 2p)/4p$	$p = 16$	1.2844
	99RK3J-5871	$(1 + 2p)/4p$	$p = 16$	1.2844
	A4RVXG-5871	$(1 + 2p)/4p$	$p = 16$	1.2844
	AGERET-5871	$(1 + 2p)/4p$	$p = 16$	1.284
	BKQCHK-5871	$(Z1/2pa) + Z0$	$a = 16$	1.2844
	DM3W6P-5871			1.2844
	EVTYLQ-5871	$(1 + 2p)/4p$	$p = 16$	1.2844
	F3GNEB-5871	$(1 + 2p)/4p$	$p = 16$	1.2844
	G8QJFP-5871	$(0.25 + 0.5p)/p$	$p = 16$	1.2844
	GAFQZM-5876	*	*	1.261
	GL6PQP-5876	*	*	1.261
	GL7PHC-5871	$(1 + 2q)/4q$	$16 = 0.3187$	1.2844
	GLPBE9-5876	$(1 + 2p)/4p$	$p = 16$	1.2844
	JCABX3-5876	$(1 + 2p)/4p$	$p = 16$	1.284436774
	LEUTB8-5871	$(1 + 2p)/4p$	$p = 16$	1.2844
LNTXU9-5876	$(1 + 2p)/4p$	$p = 16$	1.2844	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D3S1358	LYHGHE-5871	$(1+2p)/4p$	$p = 16$	1.2844
	N42L4E-5876	*	*	1.2607
	NWZBQU-5871	$(1+4p)/8p$	$p=16$	0.892218387
	PAK7N7-5871	$(0.5+a)/2a$	$a=16$ $b=15$	1.2844
	PCC4YX-5871	$(1+2p)/4p$	$p=16$	1.284437
	QBVAV3-5871	$(0.5+a)/2a$	$a = 16$	1.2844
	QTKPGN-5871	$(1+2p)/4p$	$p=16$	1.2844
	RC94B3-5871	$(1+2p)/4p$	$p=16$	1.2844
	TH4JEF-5871	$(1+2q)/4q$	$q=16$	1.2844
	TKTPYC-5876	*	*	1.261
	TPNLLH-5871	$(1+2p)/4p$	$p=16$	1.2844
	UNWDC3-5871	$(1+2p)/4p$	$p=16$	1.2844
	WWGHXY-5871	$(K1+K0a)/a$	$a=16$	1.284436774
	WXMKGM-5876	$(1+2p)/4p$	$p=16$	1.284

Statistical Analysis Summary of D3S1358
Likelihood Ratio Mode: 1.2844

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D5S818	2JP2QY-5871	k0		0.5
	3QN2M7-5876	1/2		0.5000
	48RZ3M-5876	$R=b^2(k0), U=b^2, HSI=R/U$	A=11 B=13 K1=0.25 K0=0.5	0.500
	4FL9MD-5876	1/2		0.50000
	4KQ2AZ-5876	1/2		0.5
	6E6BVE-5876	1/2		0.50000
	6R3D3R-5876	2:4		0.5
	6U2LK7-5876	1/2		P = 11 Q = 13 0.5
	86A38T-5871	2/4		0.5000
	99RK3J-5871	2/4		0.50000
	A4RVXG-5871	2/4		0.50000
	AGERET-5871	1/2		0.5
	BKQCHK-5871	Z0		0.5000
	DM3W6P-5871			0.5000
	EVTYLQ-5871	1/2		0.50
	F3GNEB-5871	1/2		0.5
	G8QJFP-5871	0.5		0.5
	GAFQZM-5876	*		* 0.5000
	GL6PQP-5876	*		* 0.5000
	GL7PHC-5871	1/2		0.5000
	GLPBE9-5876	0.5		0.5
	JCABX3-5876	2/4		0.5
	LEUTB8-5871	2/4		0.50000
LNTXU9-5876	0.5		0.5000	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D5S818	LYHGHE-5871	2/4		0.5000
	N42L4E-5876	*	*	0.5000
	NWZBQU-5871	0.5		0.5
	PAK7N7-5871	cd/2cd	c=13 d=13	0.5000
	PCC4YX-5871	2/4		0.500
	QBVAV3-5871	cd/2cd=0.5	c =13 d = 13	0.5
	QTKPGN-5871	1/2		0.5
	RC94B3-5871	$(0.5 \cdot p^2) / p^2$	p=11	0.5
	TH4JEF-5871	1/2		0.5000
	TKTPYC-5876	*	*	0.5000
	TPNLLH-5871	1/2		0.5000
	UNWDC3-5871	1/2		0.5000
	WWGHXY-5871	K0		0.5
	WXMKGM-5876	1/2		0.5000

Statistical Analysis Summary of D5S818
Likelihood Ratio Mode: 0.5000

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D7S820	2JP2QY-5871	$k1 + 2k0a/2a$	$a = 10$	0.8717
	3QN2M7-5876	$(1 + 4p)/8p$	$p = 10$	0.8717
	48RZ3M-5876	$R=c(k1)+2ac(k0),U=2ac,HSI=R/U$	A=10 B=12 C=11 K1=0.25 K0=0.5	0.872
	4FL9MD-5876	$(1 + 4p)/8p$	$p = 10$	0.87169
	4KQ2AZ-5876	$(1 + 4p)/8p$	$p = 10$	0.872
	6E6BVE-5876	$(1 + 4p)/8p$	$p = 10$	0.87169
	6R3D3R-5876	$(1 + 4p)/8p$	$p = 10$	0.87169
	6U2LK7-5876	$(1 + 4p)/8p$	$P = 10$	0.8717
	86A38T-5871	$(1 + 4p)/8p$	$p = 10$	0.8717
	99RK3J-5871	$(1 + 4p)/8p$	$p = 10$	0.87169
	A4RVXG-5871	$(1 + 4p)/8p$	$p = 10$	0.87169
	AGERET-5871	$(1 + 4p)/8p$	$p = 10$	0.8716
	BKQCHK-5871	$(Z1/4pa)+Z0$	$a = 10$	0.8717
	DM3W6P-5871			0.8717
	EVTYLQ-5871	$(1 + 4p)/8p$	$p = 10$	0.8717
	F3GNEB-5871	$(1 + 4p)/8p$	$p = 10$	0.8717
	G8QJFP-5871	$(0.25 + p)/2p$	$p = 10$	0.8717
	GAFQZM-5876	*	*	0.8722
	GL6PQP-5876	*	*	0.8722
	GL7PHC-5871	$(1 + 4p)/8p$	$10=0.3363$	0.8717
	GLPBE9-5876	$(1 + 4p)/8p$	$p = 10$	0.8717
	JCABX3-5876	$(1 + 4p)/8p$	$p = 10$	0.871691942
	LEUTB8-5871	$(1 + 4p)/8p$	$p = 10$	0.87169
LNTXU9-5876	$(1 + 4p)/8p$	$p = 10$	0.8717	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D7S820	LYHGHE-5871	$(1+4p)/8p$	$p = 10$	0.8717
	N42L4E-5876	*	*	0.8722
	NWZBQU-5871	$(1+4p)/8p$	$p=10$	0.871691942
	PAK7N7-5871	$(0.25+a)/2a$	$a=10 \ b=12 \ v=11$	0.8717
	PCC4YX-5871	$(1+4p)/8p$	$p=10$	0.871692
	QBVAV3-5871	$(0.25+a)/2a$	$a = 10$	0.87169
	QTKPGN-5871	$(1+4p)/8p$	$p=10$	0.8716
	RC94B3-5871	$(1+4p)/8p$	$p=10$	0.8717
	TH4JEF-5871	$(1+4p)/8p$	$p=10$	0.8716
	TKTPYC-5876	*	*	0.8722
	TPNLLH-5871	$(1+4p)/8p$	$p=10$	0.8717
	UNWDC3-5871	$(1+4p)/8p$	$p=10$	0.8717
	WWGHXY-5871	$(K1+2K0a)/2a$	$a=10$	0.871691942
	WXMKGM-5876	$(1+4p)/8p$	$p=10$	0.8716

Statistical Analysis Summary of D7S820
Likelihood Ratio Mode: 0.8717

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D8S1179	2JP2QY-5871	$k1 + k0a/a$	$a = 14$	1.351
	3QN2M7-5876	$(1 + 2p)/4p$	$p = 14$	1.351
	48RZ3M-5876	$R = a(k1) + a^2(k0), U = a^2, HSI = R/U$	$A = 14 B = 15 K1 = 0.25 K0 = 0.5$	1.351
	4FL9MD-5876	$(1 + 2p)/4p$	$p = 14$	1.3506
	4KQ2AZ-5876	$(1 + 2p)/4p$	$p = 14$	1.351
	6E6BVE-5876	$(1 + 2p)/4p$	$p = 14$	1.3506
	6R3D3R-5876	$(1 + 2p)/4p$	$p = 14$	1.35063
	6U2LK7-5876	$(1 + 2p)/4p$	$P = 14$	1.3506
	86A38T-5871	$(1 + 2p)/4p$	$p = 14$	1.3506
	99RK3J-5871	$(1 + 2p)/4p$	$p = 14$	1.3506
	A4RVXG-5871	$(1 + 2p)/4p$	$p = 14$	1.3506
	AGERET-5871	$(1 + 2p)/4p$	$p = 14$	1.350
	BKQCHK-5871	$(Z1/2pa) + Z0$	$a = 14$	1.3506
	DM3W6P-5871			1.3507
	EVTYLQ-5871	$(1 + 2p)/4p$	$p = 14$	1.3506
	F3GNEB-5871	$(1 + 2p)/4p$	$p = 14$	1.3506
	G8QJFP-5871	$(0.25 + 0.5p)/p$	$p = 14$	1.3506
	GAFQZM-5876	*	*	1.321
	GL6PQP-5876	*	*	1.321
	GL7PHC-5871	$(1 + 2p)/4p$	$14 = 0.2939$	1.3506
	GLPBE9-5876	$(1 + 2p)/4p$	$p = 14$	1.3506
	JCABX3-5876	$(1 + 2p)/4p$	$p = 14$	1.350629466
	LEUTB8-5871	$(1 + 2p)/4p$	$p = 14$	1.3506
LNTXU9-5876	$(1 + 2p)/4p$	$p = 14$	1.3506	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D8S1179	LYHGHE-5871	$(1+2p)/4p$	$p = 14$	1.3506
	N42L4E-5876	*	*	1.3209
	NWZBQU-5871	$(1+4p)/8p$	$p=14$	0.925314733
	PAK7N7-5871	$(0.5+a)/2a$	$a=14$ $b=15$	1.3506
	PCC4YX-5871	$(1+2p)/4p$	$p=14$	1.350629
	QBVAV3-5871	$(0.5+a)/2a$	$a = 14$	1.3506
	QTKPGN-5871	$(1+2p)/4p$	$p=14$	1.3506
	RC94B3-5871	$(1+2p)/4p$	$p=14$	1.3506
	TH4JEF-5871	$(1+2p)/4p$	$p=14$	1.3506
	TKTPYC-5876	*	*	1.321
	TPNLLH-5871	$(1+2p)/4p$	$p=14$	1.3506
	UNWDC3-5871	$(1+2p)/4p$	$p=14$	1.3506
	WWGHXY-5871	$(K1+K0a)/a$	$a=14$	1.350629466
	WXMKGM-5876	$(1+2p)/4p$	$p=14$	1.350

Statistical Analysis Summary of D8S1179
Likelihood Ratio Mode: 1.3506

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D10S1248	2JP2QY-5871	$k1 + 2k0a/2a$	$a = 12$	1.461
	3QN2M7-5876	$(1 + 4p)/8p$	$p = 12$	1.461
	48RZ3M-5876	$R=c(k1)+2ac(k0),U=2ac,HSI=R/U$	A=12 B=14 C=13 K1=0.25 K0=0.5	1.461
	4FL9MD-5876	$(1 + 4p)/8p$	$p = 12$	1.4608
	4KQ2AZ-5876	$(1 + 4p)/8p$	$p = 12$	1.461
	6E6BVE-5876	$(1 + 4p)/8p$	$p = 12$	1.4608
	6R3D3R-5876	$(1 + 4p)/8p$	$p = 12$	1.46080
	6U2LK7-5876	$(1 + 4p)/8p$	$P = 12$	1.4608
	86A38T-5871	$(1 + 4p)/8p$	$p = 12$	1.4608
	99RK3J-5871	$(1 + 4p)/8p$	$p = 12$	1.4608
	A4RVXG-5871	$(1 + 4p)/8p$	$p = 12$	1.4608
	AGERET-5871	$(1 + 4p)/8p$	$p = 12$	1.460
	BKQCHK-5871	$(Z1/4pa)+Z0$	$a = 12$	1.4608
	DM3W6P-5871			1.4607
	EVTYLQ-5871	$(1 + 4p)/8p$	$p = 12$	1.4608
	F3GNEB-5871	$(1 + 4p)/8p$	$p = 12$	1.4608
	G8QJFP-5871	$(0.25 + p)/2p$	$p = 12$	1.4608
	GAFQZM-5876	*	*	1.419
	GL6PQP-5876	*	*	1.419
	GL7PHC-5871	$(1 + 4p)/8p$	$12 = 0.1301$	1.4608
	GLPBE9-5876	$(1 + 4p)/8p$	$p = 12$	1.4608
	JCABX3-5876	$(1 + 4p)/8p$	$p = 12$	1.460799385
	LEUTB8-5871	$(1 + 4p)/8p$	$p = 12$	1.4608
LNTXU9-5876	$(1 + 4p)/8p$	$p = 12$	1.4608	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D10S1248	LYHGHE-5871	$(1+4p)/8p$	$p = 12$	1.4608
	N42L4E-5876	*	*	1.4189
	NWZBQU-5871	$(1+4p)/8p$	$p=12$	1.460799385
	PAK7N7-5871	$(0.25+a)/2a$	$a=12$ $b=14$ $c=13$	1.4608
	PCC4YX-5871	$(1+4p)/8p$	$p=12$	1.460799
	QBVAV3-5871	$(0.25+a)/2a$	$a = 12$	1.4608
	QTKPGN-5871	$(1+4p)/8p$	$p=12$	1.4607
	RC94B3-5871	$(1+4p)/8p$	$p=12$	1.4608
	TH4JEF-5871	$(1+4p)/8p$	$p=12$	0.0247
	TKTPYC-5876	*	*	1.419
	TPNLLH-5871	$(1+4p)/8p$	$p=12$	1.4608
	UNWDC3-5871	$(1+4p)/8p$	$p=12$	1.4608
	WWGHXY-5871	$(K1+2K0a)/2a$	$a=12$	1.460799385
	WXMKGM-5876	$(1+4p)/8p$	$p=12$	1.460

Statistical Analysis Summary of D10S1248
Likelihood Ratio Mode: 1.4608

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D12S391	2JP2QY-5871	$k1 + k0a/a$	$a = 17$	2.000
	3QN2M7-5876	$(1 + 2p)/4p$	$p = 17$	2.000
	48RZ3M-5876	$R = b(k1) + b(k1) + 2ab(k0), U = 2a$ $b, HSI = R/U$	$A = 17 B = 19 K1 = 0.25 K0 = 0.5$	2.000
	4FL9MD-5876	$(1 + 2p)/4p$	$p = 17$	1.9997
	4KQ2AZ-5876	$(1 + 2p)/4p$	$p = 17$	2.000
	6E6BVE-5876	$(1 + 2p)/4p$	$p = 17$	1.9997
	6R3D3R-5876	$(1 + 2p)/4p$	$p = 17$	1.99970
	6U2LK7-5876	$(1 + 2p)/4p$	$P = 17$	1.9997
	86A38T-5871	$(1 + 2p)/4p$	$p = 17$	1.9997
	99RK3J-5871	$(1 + 2p)/4p$	$p = 17$	1.9997
	A4RVXG-5871	$(1 + 2p)/4p$	$p = 17$	1.9997
	AGERET-5871	$(1 + 2p)/4p$	$p = 17$	1.999
	BKQCHK-5871	$(Z1/2pa) + Z0$	$a = 17$	1.9997
	DM3W6P-5871			2.0000
	EVTYLQ-5871	$(1 + 2p)/4p$	$p = 17$	1.9997
	F3GNEB-5871	$(1 + 2p)/4p$	$p = 17$	1.997
	G8QJFP-5871	$(0.25 + 0.5p)/p$	$p = 17$	1.9997
	GL6PQP-5876	*	*	1.880
	GL7PHC-5871	$(1 + 2p)/4p$	$17 = 0.1667$	1.9997
	GLPBE9-5876	$(1 + 2p)/4p$	$p = 17$	1.9997
JCABX3-5876	$(1 + 2p)/4p$	$p = 17$	1.99970006	
LEUTB8-5871	$(1 + 2p)/4p$	$p = 17$	1.9997	
LNTXU9-5876	$(1 + 2p)/4p$	$p = 17$	1.9997	
LYHGHE-5871	$(1 + 2p)/4p$	$p = 17$	1.9997	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D12S391	NWZBQU-5871	$(1+4p)/8p$	$p=17$	1.24985003
	PAK7N7-5871	$(0.5+a)/2a$	$a=17$ $b=19$	1.9997
	PCC4YX-5871	$(1+2p)/4p$	$p=17$	1.9997
	QBVAV3-5871	$(0.5+a)/2a$	$a=17$	1.9997
	QTKPGN-5871	$(1+2p)/4p$	$p=17$	1.9997
	RC94B3-5871	$(1+2p)/4p$	$p=17$	1.9997
	TH4JEF-5871	$(1+2p)/4p$	$p=17$	1.9997
	TPNLLH-5871	$(1+2p)/4p$	$p=17$	1.9997
	UNWDC3-5871	$(1+2p)/4p$	$p=12$	1.9997
	WWGHXY-5871	$(K1+K0a)/a$	$a=17$	1.99970006
	WXMKGM-5876	$(1+2p)/4p$	$p=17$	1.999

Statistical Analysis Summary of D12S391
Likelihood Ratio Mode: 1.9997

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D13S317	2JP2QY-5871	$k1 + 2k0a/2a$	$a = 12$	0.7990
	3QN2M7-5876	$(1 + 4p)/8p$	$p = 12$	0.7990
	48RZ3M-5876	$R=c(k1)+2ac(k0),U=2ac,HSI=R/U$	$A=12 B= 11 C=10 K1=0.25 K0=0.5$	0.799
	4FL9MD-5876	$(1 + 4p)/8p$	$p = 12$	0.79897
	4KQ2AZ-5876	$(1 + 4p)/8p$	$p = 12$	0.799
	6E6BVE-5876	$(1 + 4p)/8p$	$p = 12$	0.79897
	6R3D3R-5876	$(1 + 4p)/8p$	$p = 12$	0.79897
	6U2LK7-5876	$(1 + 4p)/8p$	$P = 12$	0.7989
	86A38T-5871	$(1 + 4p)/8p$	$p = 12$	0.7990
	99RK3J-5871	$(1 + 4p)/8p$	$p = 12$	0.79897
	A4RVXG-5871	$(1 + 4p)/8p$	$p = 12$	0.79897
	AGERET-5871	$(1 + 4p)/8p$	$p = 12$	0.7989
	BKQCHK-5871	$(Z1/4pa)+Z0$	$a = 12$	0.7990
	DM3W6P-5871			0.7990
	EVTYLQ-5871	$(1 + 4p)/8p$	$p = 12$	0.7990
	F3GNEB-5871	$(1 + 4p)/8p$	$p = 12$	0.7990
	G8QJFP-5871	$(0.25 + p)/2p$	$p = 12$	0.7990
	GAFQZM-5876	*	*	0.8010
	GL6PQP-5876	*	*	0.8010
	GL7PHC-5871	$(1 + 4r)/8r$	$12=0.4181$	0.7990
	GLPBE9-5876	$(1 + 4p)/8p$	$p = 12$	0.7990
	JCABX3-5876	$(1 + 4p)/8p$	$p = 12$	0.798971538
	LEUTB8-5871	$(1 + 4p)/8p$	$p = 12$	0.79897
LNTXU9-5876	$(1 + 4p)/8p$	$p = 12$	0.7990	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D13S317	LYHGHE-5871	$(1+4p)/8p$	$p = 12$	0.7990
	N42L4E-5876	*	*	0.8010
	NWZBQU-5871	$(1+4p)/8p$	$p=12$	0.798971538
	PAK7N7-5871	$(0.25+a)/2a$	$a=12$ $b=11$ $c=10$	0.7990
	PCC4YX-5871	$(1+4p)/8p$	$p=12$	0.798972
	QBVAV3-5871	$(0.25+c)/2c$	$c = 12$	0.79897
	QTKPGN-5871	$(1+4p)/8p$	$p=12$	0.7989
	RC94B3-5871	$(1+4p)/8p$	$p=12$	0.7990
	TH4JEF-5871	$(1+4r)/8r$	$r=12$	0.7989
	TKTPYC-5876	*	*	0.8010
	TPNLLH-5871	$(1+4p)/8p$	$p=11$	0.7990
	UNWDC3-5871	$(1+4p)/8p$	$p=12$	0.7990
	WWGHXY-5871	$(K1+2K0a)/2a$	$a=12$	0.798971538
	WXMKGM-5876	$(1+4p)/8p$	$p=12$	0.7989

Statistical Analysis Summary of D13S317
Likelihood Ratio Mode: 0.7990

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D16S539	2JP2QY-5871	$k1 + k0a/a$	$a = 11$	1.295
	3QN2M7-5876	$(1 + 2p)/4p$	$p = 11$	1.295
	48RZ3M-5876	$R = b(k1) + b(k1) + 2ab(k0), U = 2a$ $b, HSI = R/U$	$A = 11 \ B = 8 \ K1 = 0.25 \ K0 = 0.5$	1.295
	4FL9MD-5876	$(1 + 2p)/4p$	$p = 11$	1.2954
	4KQ2AZ-5876	$(1 + 2p)/4p$	$p = 11$	1.295
	6E6BVE-5876	$(1 + 2p)/4p$	$p = 11$	1.2954
	6R3D3R-5876	$(1 + 2p)/4p$	$p = 11$	1.29542
	6U2LK7-5876	$(1 + 2p)/4p$	$P = 11$	1.2954
	86A38T-5871	$(1 + 2p)/4p$	$p = 11$	1.2954
	99RK3J-5871	$(1 + 2p)/4p$	$p = 11$	1.2954
	A4RVXG-5871	$(1 + 2p)/4p$	$p = 11$	1.2954
	AGERET-5871	$(1 + 2p)/4p$	$p = 11$	1.295
	BKQCHK-5871	$(Z1/2pa) + Z0$	$a = 11$	1.2954
	DM3W6P-5871			1.2954
	EVTYLQ-5871	$(1 + 2p)/4p$	$p = 11$	1.2954
	F3GNEB-5871	$(1 + 2p)/4p$	$p = 11$	1.2954
	G8QJFP-5871	$(0.25 + 0.5p)/p$	$p = 11$	1.2954
	GAFQZM-5876	*	*	1.271
	GL6PQP-5876	*	*	1.271
	GL7PHC-5871	$(1 + 2s)/4s$	$11 = 0.3143$	1.2954
	GLPBE9-5876	$(1 + 2p)/4p$	$p = 11$	1.2954
	JCABX3-5876	$(1 + 2p)/4p$	$p = 11$	1.29541839
	LEUTB8-5871	$(1 + 2p)/4p$	$p = 11$	1.2954
LNTXU9-5876	$(1 + 2p)/4p$	$p = 11$	1.2954	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D16S539	LYHGHE-5871	$(1+2p)/4p$	$p = 11$	1.2954
	N42L4E-5876	*	*	1.2706
	NWZBQU-5871	$(1+4p)/8p$	$p=11$	0.897709195
	PAK7N7-5871	$(0.5+a)/2a$	$a=11$ $b=8$	1.2954
	PCC4YX-5871	$(1+2p)/4p$	$p=11$	1.295418
	QBVAV3-5871	$(0.5+a)/2a$	$a = 11$	1.2954
	QTKPGN-5871	$(1+2p)/4p$	$p=11$	1.2954
	RC94B3-5871	$(1+2p)/4p$	$p=11$	1.2954
	TH4JEF-5871	$(1+2s)/4s$	$s=11$	1.2954
	TKTPYC-5876	*	*	1.271
	TPNLLH-5871	$(1+2p)/4p$	$p=11$	1.2954
	UNWDC3-5871	$(1+2p)/4p$	$p=11$	1.2954
	WWGHXY-5871	$(K1+K0a)/a$	$a=11$	1.29541839
	WXMKGM-5876	$(1+2p)/4p$	$p=11$	1.295

Statistical Analysis Summary of D16S539
Likelihood Ratio Mode: 1.2954

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D18S51	2JP2QY-5871	$k1 + k0a/a$	$a = 17$	2.145
	3QN2M7-5876	$(1 + 2p)/4p$	$p = 17$	2.145
	48RZ3M-5876	$R = b(k1) + b(k1) + 2ab(k0), U = 2a$ $b, HSI = R/U$	$A = 17 \ B = 15 \ K1 = 0.25 \ K0 = 0.5$	2.145
	4FL9MD-5876	$(1 + 2p)/4p$	$p = 17$	2.1447
	4KQ2AZ-5876	$(1 + 2p)/4p$	$p = 17$	2.145
	6E6BVE-5876	$(1 + 2p)/4p$	$p = 17$	2.1447
	6R3D3R-5876	$(1 + 2p)/4p$	$p = 17$	2.14474
	6U2LK7-5876	$(1 + 2p)/4p$	$P = 17$	2.1447
	86A38T-5871	$(1 + 2p)/4p$	$p = 17$	2.1447
	99RK3J-5871	$(1 + 2p)/4p$	$p = 17$	2.1447
	A4RVXG-5871	$(1 + 2p)/4p$	$p = 17$	2.1447
	AGERET-5871	$(1 + 2p)/4p$	$p = 17$	2.144
	BKQCHK-5871	$(Z1/2pa) + Z0$	$a = 17$	2.1447
	DM3W6P-5871			2.1442
	EVTYLQ-5871	$(1 + 2p)/4p$	$p = 17$	2.1447
	F3GNEB-5871	$(1 + 2p)/4p$	$p = 17$	2.1447
	G8QJFP-5871	$(0.25 + 0.5p)/p$	$p = 17$	2.1447
	GAFQZM-5876	*	*	1.997
	GL6PQP-5876	*	*	1.997
	GL7PHC-5871	$(1 + 2r)/4r$	$17 = 0.1520$	2.1447
	GLPBE9-5876	$(1 + 2p)/4p$	$p = 17$	2.1447
	JCABX3-5876	$(1 + 2p)/4p$	$p = 17$	2.144736842
	LEUTB8-5871	$(1 + 2p)/4p$	$p = 17$	2.1447
LNTXU9-5876	$(1 + 2p)/4p$	$p = 17$	2.1447	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D18S51	LYHGHE-5871	$(1+2p)/4p$	$p = 17$	2.1447
	N42L4E-5876	*	*	1.9966
	NWZBQU-5871	$(1+4p)/8p$	$p=17$	1.322368421
	PAK7N7-5871	$(0.5+a)/2a$	$a=17$ $b=15$	2.1447
	PCC4YX-5871	$(1+2p)/4p$	$p=17$	2.144737
	QBVAV3-5871	$(0.5+a)/2a$	$a = 17$	2.1447
	QTKPGN-5871	$(1+2p)/4p$	$p=17$	2.1447
	RC94B3-5871	$(1+2p)/4p$	$p=17$	2.1447
	TH4JEF-5871	$(1+2r)/4r$	$r=17$	2.1447
	TKTPYC-5876	*	*	1.997
	TPNLLH-5871	$(1+2p)/4p$	$p=17$	2.1447
	UNWDC3-5871	$(1+2p)/4p$	$p=17$	2.1447
	WWGHXY-5871	$(K1+K0a)/a$	$a=17$	2.144736842
	WXMKGM-5876	$(1+2p)/4p$	$p=17$	2.144

Statistical Analysis Summary of D18S51
Likelihood Ratio Mode: 2.1447

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D19S433	2JP2QY-5871	$k1 + 2k0a/2a$	$a = 10$	12.75
	3QN2M7-5876	$(1 + 4p)/8p$	$p = 10$	12.75
	48RZ3M-5876	$R=c(k1)+2ac(k0),U=2ac,HSI=R/U$	$A=10 B=14 C=15.2 K1=0.25 K0=0.5$	12.755
	4FL9MD-5876	$(1 + 4p)/8p$	$p = 10$	12.755
	4KQ2AZ-5876	$(1 + 4p)/8p$	$p = 10$	12.755
	6E6BVE-5876	$(1 + 4p)/8p$	$p = 10$	12.755
	6R3D3R-5876	$(1 + 4p)/8p$	$p = 10$	12.75490
	6U2LK7-5876	$(1 + 4p)/8p$	$P = 10$	12.7549
	86A38T-5871	$(1 + 4p)/8p$	$p = 10$	12.755
	99RK3J-5871	$(1 + 4p)/8p$	$p = 10$	12.755
	A4RVXG-5871	$(1 + 4p)/8p$	$p = 10$	12.755
	AGERET-5871	$(1 + 4p)/8p$	$p = 10$	12.75
	BKQCHK-5871	$(Z1/4pa)+Z0$	$a = 10$	12.7549
	DM3W6P-5871			12.7142
	EVTYLQ-5871	$(1 + 4p)/8p$	$p = 10$	12.7549
	F3GNEB-5871	$(1 + 4p)/8p$	$p = 10$	12.7549
	G8QJFP-5871	$(0.25 + p)/2p$	$p = 10$	12.7549
	GAFQZM-5876	*	*	6.806
	GL6PQP-5876	*	*	6.806
	GL7PHC-5871	$(1 + 4p)/8p$	$10=0.0102$	12.7549
	GLPBE9-5876	$(1 + 4p)/8p$	$p = 10$	12.7549
	JCABX3-5876	$(1 + 4p)/8p$	$p = 10$	12.75490196
	LEUTB8-5871	$(1 + 4p)/8p$	$p = 10$	12.755
LNTXU9-5876	$(1 + 4p)/8p$	$p = 10$	12.7549	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D19S433	LYHGHE-5871	$(1+4p)/8p$	$p = 10$	12.7549
	N42L4E-5876	*	*	6.8056
	NWZBQU-5871	$(1+4p)/8p$	$p=10$	12.75490196
	PAK7N7-5871	$(0.25+a)/2a$	$a=10$ $b=14$ $c=15.2$	12.7549
	PCC4YX-5871	$(1+4p)/8p$	$p=10$	12.7549
	QBVAV3-5871	$(0.25+a)/2a$	$a = 10$	12.755
	QTKPGN-5871	$(1+4p)/8p$	$p=10$	12.7549
	RC94B3-5871	$(1+4p)/8p$	$p=10$	12.7549
	TH4JEF-5871	$(1+4p)/8p$	$p=10$	12.7549
	TKTPYC-5876	*	*	6.806
	TPNLLH-5871	$(1+4p)/8p$	$p=10$	12.7549
	UNWDC3-5871	$(1+4p)/8p$	$p=10$	12.7549
	WWGHXY-5871	$(K1+2K0a)/2a$	$a=10$	12.75490196
	WXMKGM-5876	$(1+4p)/8p$	$p=10$	12.75

Statistical Analysis Summary of D19S433
Likelihood Ratio Mode: 12.7549

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D21S11	2JP2QY-5871	$k2+k1a+k1b+k02ab/2ab$	$a = 27 \ b = 28$	2.685
	3QN2M7-5876	$(p+q+4pq)/8pq$	$p=27 \ q=28$	2.685
	48RZ3M-5876	$R=a(k1)+b(k1)+2ab(k0),U=2a$ $b,HSI=R/U$	$A=27 \ B=28 \ K1=0.25 \ K0=0.5$	2.685
	4FL9MD-5876	$(p+q+4pq)/8pq$	$p=27 \ q=28$	2.6846
	4KQ2AZ-5876	$(p+q+4pq)/8pq$	$p=27 \ q=28$	2.685
	6E6BVE-5876	$(p+q+4pq)/8pq$	$p=27 \ q=28$	2.6846
	6R3D3R-5876	$(p+q+4pq)/8pq$	$p=27$	2.68456
	6U2LK7-5876	$(p+q+4pq)/8pq$	$P = 27 \ Q = 28$	2.6845
	86A38T-5871	$(p+q+4pq)/8pq$	$p=27 \ q=28$	2.6846
	99RK3J-5871	$(p+q+4pq)/8pq$	$p=27 \ q=28$	2.6847
	A4RVXG-5871	$(p+q+4pq)/8pq$	$p=27 \ q=28$	2.6846
	AGERET-5871	$(p+q+4pq)/8pq$	$p=27 \ q=28$	2.684
	BKQCHK-5871	$((2*Z2)+Z1(pa+pb))/$ $(4(pa*pb)))+Z0$	$a=27 \ b=28$	2.6846
	DM3W6P-5871			2.6854
	EVTYLQ-5871	$(p+q+4pq)/8pq$	$p=27 \ q=28$	2.6846
	F3GNEB-5871	$(p+q+4pq)/8pq$	$p=27 \ q=28$	2.1756
	G8QJFP-5871	$(0.25(p+q)+pq)/2pq$	$p=27 \ q=28$	2.6846
	GAFQZM-5876	*	*	2.526
	GL6PQP-5876	*	*	2.526
	GL7PHC-5871	$(p+q+4pq)/8pq$	$27=0.0746 \ 28=0.2456$	2.6846
	GLPBE9-5876	$(p+q+4pq)/8pq$	$p=27 \ q=28$	2.6846
	JCABX3-5876	$(p+q+4pq)/8pq$	$p=27 \ q=28$	2.684560872
	LEUTB8-5871	$(p+q+4pq)/8pq$	$p = 27 \ q = 28$	2.6846
LNTXU9-5876	$(p+q+4pq)/8pq$	$p=27 \ q=28$	2.6846	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D21S11	LYHGHE-5871	$(p+q+4pq)/8pq$	$p = 27 \quad q = 28$	2.6846
	N42L4E-5876	*	*	2.5260
	NWZBQU-5871	$(p+q+4pq)/8pq$	$p=27 \quad q=28$	2.684560872
	PAK7N7-5871	$(0.25a+0.25b+ab)/2ab$	$a=27 \quad b=28$	2.6846
	PCC4YX-5871	$(p+q+4pq)/8pq$	$p=27 \quad q=28$	2.684561
	QBVAV3-5871	$(0.25a+0.25b+ab)/2ab$	$a = 27 \quad b = 28$	2.6846
	QTKPGN-5871	$(p+q+4pq)/8pq$	$p=27 \quad q=28$	2.5044
	RC94B3-5871	$(4pq+p+q)/8pq$	$p=27 \quad q=28$	2.6846
	TH4JEF-5871	$(p+q+4pq)/8pq$	$p=27 \quad q=28$	2.6845
	TKTPYC-5876	*	*	2.526
	TPNLLH-5871	$(p+q+4pq)/8pq$	$p=27 \quad q=28$	2.6846
	UNWDC3-5871	$(p+q+4pq)/8pq$	$p=27 \quad q=28$	2.6846
	WWGHXY-5871	$(K1a+K1b+K02ab)/2ab$	$a=27 \quad b=28$	2.684560872
	WXMKGM-5876	$(p+q+4pq)/8pq$	$p=27 \quad q=28$	2.684

Statistical Analysis Summary of D21S11
Likelihood Ratio Mode: 2.6846

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D22S1045	2JP2QY-5871	$k1 + 2k0a/2a$	$a = 15$	0.9970
	3QN2M7-5876	$(1 + 4p)/8p$	$p = 15$	0.9970
	48RZ3M-5876	$R=c(k1)+2ac(k0),U=2ac,HSI=R/U$	A=15 B=11 C=17 K1=0.25 K0=0.5	0.997
	4FL9MD-5876	$(1 + 4p)/8p$	$p = 15$	0.99702
	4KQ2AZ-5876	$(1 + 4p)/8p$	$p = 15$	0.997
	6E6BVE-5876	$(1 + 4p)/8p$	$p = 15$	0.99702
	6R3D3R-5876	$(1 + 4p)/8p$	$p = 15$	0.99702
	6U2LK7-5876	$(1 + 4p)/8p$	$P = 15$	0.9970
	86A38T-5871	$(1 + 4p)/8p$	$p = 15$	0.9970
	99RK3J-5871	$(1 + 4p)/8p$	$p = 15$	0.99702
	A4RVXG-5871	$(1 + 4p)/8p$	$p = 15$	0.99702
	AGERET-5871	$(1 + 4p)/8p$	$p = 15$	0.9970
	BKQCHK-5871	$(Z1/4pa)+Z0$	$a = 15$	0.9970
	DM3W6P-5871			0.9971
	EVTYLQ-5871	$(1 + 4p)/8p$	$p = 15$	0.9970
	F3GNEB-5871	$(1 + 4p)/8p$	$p = 15$	0.9970
	G8QJFP-5871	$(0.25 + p)/2p$	$p = 15$	0.9970
	GAFQZM-5876	*	*	0.9928
	GL6PQP-5876	*	*	0.9928
	GL7PHC-5871	$(1 + 4t)/8t$	$15 = 0.2515$	0.9970
	GLPBE9-5876	$(1 + 4p)/8p$	$p = 15$	0.9970
	JCABX3-5876	$(1 + 4p)/8p$	$p = 15$	0.997017893
	LEUTB8-5871	$(1 + 4p)/8p$	$p = 15$	0.99702
LNTXU9-5876	$(1 + 4p)/8p$	$p = 15$	0.9970	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D22S1045	LYHGHE-5871	$(1+4p)/8p$	$p = 15$	0.9970
	N42L4E-5876	*	*	0.9928
	NWZBQU-5871	$(1+4p)/8p$	$p=15$	0.997017893
	PAK7N7-5871	$(0.25+a)/2a$	$a=15 \ b=11 \ c=17$	0.9970
	PCC4YX-5871	$(1+4p)/8p$	$p=15$	0.997018
	QBVAV3-5871	$(0.25+c)/2c$	$c = 15$	0.99702
	QTKPGN-5871	$(1+4p)/8p$	$p=15$	0.9970
	RC94B3-5871	$(1+4p)/8p$	$p=15$	0.9970
	TH4JEF-5871	$(1+4t)/8t$	$t=15$	0.9970
	TKTPYC-5876	*	*	0.9928
	TPNLLH-5871	$(1+4p)/8p$	$p=11$	0.9970
	UNWDC3-5871	$(1+4p)/8p$	$p=15$	0.9970
	WWGHXY-5871	$(K1+2K0a)/2a$	$a=15$	0.997017893
	WXMKGM-5876	$(1+4p)/8p$	$p=27$	0.9970

Statistical Analysis Summary of D22S1045
Likelihood Ratio Mode: 0.9970

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
CSF1PO	2JP2QY-5871	$k1 + 2k0a/2a$	$a = 12$	0.9233
	3QN2M7-5876	$(1 + 4p)/8p$	$p = 12$	0.9233
	48RZ3M-5876	$R=c(k1)+2ac(k0),U=2ac,HSI=R/U$	$A=12 B=8 C=10 K1=0.25 K0=0.5$	0.923
	4FL9MD-5876	$(1 + 4p)/8p$	$p = 12$	0.92330
	4KQ2AZ-5876	$(1 + 4p)/8p$	$p = 12$	0.923
	6E6BVE-5876	$(1 + 4p)/8p$	$p = 12$	0.92330
	6R3D3R-5876	$(1 + 4p)/8p$	$p = 12$	0.92330
	6U2LK7-5876	$(1 + 4p)/8p$	$P = 12$	0.9233
	86A38T-5871	$(1 + 4p)/8p$	$p = 12$	0.9233
	99RK3J-5871	$(1 + 4p)/8p$	$p = 12$	0.92330
	A4RVXG-5871	$(1 + 4p)/8p$	$p = 12$	0.92330
	AGERET-5871	$(1 + 4p)/8p$	$p = 12$	0.9232
	BKQCHK-5871	$(Z1/4pa)+Z0$	$a = 12$	0.9233
	DM3W6P-5871			0.9233
	EVTYLQ-5871	$(1 + 4p)/8p$	$p = 12$	0.9233
	F3GNEB-5871	$(1 + 4p)/8p$	$p = 12$	0.9233
	G8QJFP-5871	$(0.25 + p)/2p$	$p = 12$	0.9233
	GAFQZM-5876	*	*	0.9220
	GL6PQP-5876	*	*	0.9220
	GL7PHC-5871	$(1 + 4t)/8t$	$12=0.2953$	0.9233
	GLPBE9-5876	$(1 + 4p)/8p$	$p = 12$	0.9233
	JCABX3-5876	$(1 + 4p)/8p$	$p = 12$	0.923298341
	LEUTB8-5871	$(1 + 4p)/8p$	$p = 12$	0.92330
LNTXU9-5876	$(1 + 4p)/8p$	$p = 12$	0.9233	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
CSF1PO	LYHGHE-5871	$(1+4p)/8p$	$p = 12$	0.9233
	N42L4E-5876	*	*	0.9220
	NWZBQU-5871	$(1+4p)/8p$	$p=12$	0.923298341
	PAK7N7-5871	$(0.25+a)/2a$	$a=12$ $b=8$ $c=10$	0.9233
	PCC4YX-5871	$(1+4p)/8p$	$p=12$	0.923298
	QBVAV3-5871	$(0.25+c)/2c$	$c = 12$	0.92330
	QTKPGN-5871	$(1+4p)/8p$	$p=12$	0.9232
	RC94B3-5871	$(1+4p)/8p$	$p=12$	0.9233
	TH4JEF-5871	$(1+4t)/8t$	$t=12$	0.9233
	TKTPYC-5876	*	*	0.9220
	TPNLLH-5871	$(1+4q)/8q$	$q=12$	0.9233
	UNWDC3-5871	$(1+4p)/8p$	$p=12$	0.9233
	WWGHXY-5871	$(K1+2K0a)/2a$	$a=12$	0.923298341
	WXMKGM-5876	$(1+4p)/8p$	$p=12$	0.9232

Statistical Analysis Summary of CSF1PO
Likelihood Ratio Mode: 0.9233

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
FGA	2JP2QY-5871	$k1 + 2k0a/2a$	$a = 21$	1.518
	3QN2M7-5876	$(1 + 4p)/8p$	$p = 21$	1.518
	48RZ3M-5876	$R = c(k1) + 2ac(k0), U = 2ac, HSI = R/U$	A=21 B=24 C=23 K1=0.25 K0=0.5	1.518
	4FL9MD-5876	$(1 + 4p)/8p$	$p = 21$	1.5179
	4KQ2AZ-5876	$(1 + 4p)/8p$	$p = 21$	1.518
	6E6BVE-5876	$(1 + 4p)/8p$	$p = 21$	1.5179
	6R3D3R-5876	$(1 + 4p)/8p$	$p = 21$	1.51792
	6U2LK7-5876	$(1 + 4p)/8p$	$P = 21$	1.5179
	86A38T-5871	$(1 + 4p)/8p$	$p = 21$	1.5179
	99RK3J-5871	$(1 + 4p)/8p$	$p = 21$	1.5179
	A4RVXG-5871	$(1 + 4p)/8p$	$p = 21$	1.5179
	AGERET-5871	$(1 + 4p)/8p$	$p = 21$	1.517
	BKQCHK-5871	$(Z1/4pa) + Z0$	$a = 21$	1.5179
	DM3W6P-5871			1.5179
	EVTYLQ-5871	$(1 + 4p)/8p$	$p = 21$	1.5179
	F3GNEB-5871	$(1 + 4p)/8p$	$p = 21$	1.5179
	G8QJFP-5871	$(0.25 + p)/2p$	$p = 21$	1.5179
	GAFQZM-5876	*	*	1.470
	GL6PQP-5876	*	*	1.470
	GL7PHC-5871	$(1 + 4p)/8p$	$21 = 0.1228$	1.5179
	GLPBE9-5876	$(1 + 4p)/8p$	$p = 21$	1.5179
	JCABX3-5876	$(1 + 4p)/8p$	$p = 21$	1.517915309
	LEUTB8-5871	$(1 + 4p)/8p$	$p = 21$	1.5179
	LNTXU9-5876	$(1 + 4p)/8p$	$p = 21$	1.5179

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
FGA	LYHGHE-5871	$(1+4p)/8p$	$p = 21$	1.5179
	N42L4E-5876	*	*	1.4698
	NWZBQU-5871	$(1+4p)/8p$	$p=21$	1.517915309
	PAK7N7-5871	$(0.25+a)/2a$	$a=21$ $b=24$ $c=23$	1.5179
	PCC4YX-5871	$(1+4p)/8p$	$p=21$	1.517915
	QBVAV3-5871	$(0.25+a)/2a$	$a = 21$	1.5179
	QTKPGN-5871	$(1+4p)/8p$	$p=21$	1.5179
	RC94B3-5871	$(1+4p)/8p$	$p=21$	1.5179
	TH4JEF-5871	$(1+4p)/8p$	$p=21$	1.5179
	TKTPYC-5876	*	*	1.470
	TPNLLH-5871	$(1+4p)/8p$	$p=21$	1.5179
	UNWDC3-5871	$(1+4p)/8p$	$p=21$	1.5179
	WWGHXY-5871	$(K1+2K0a)/2a$	$a=21$	1.517915309
	WXMKGM-5876	$(1+4p)/8p$	$p=21$	1.517

Statistical Analysis Summary of FGA
Likelihood Ratio Mode: 1.5179

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
PentaD	2JP2QY-5871	$k1 + 2k0a/2a$	$a = 2.2$	1.596
	3QN2M7-5876	$(1 + 4p)/8p$	$p=2.2$	1.596
	48RZ3M-5876	$R=c(k1)+2ac(k0),U=2ac,HSI=R/U$	$A=2.2 B=11 C=8 K1=0.25 K0=0.5$	1.596
	4FL9MD-5876	$(1 + 4p)/8p$	$p=2.2$	1.5965
	4KQ2AZ-5876	$(1 + 4p)/8p$	$p=2.2$	1.596
	6E6BVE-5876	$(1 + 4p)/8p$	$p=2.2$	1.5965
	6R3D3R-5876	$(1 + 4p)/8p$	$p=2.2$	1.59649
	6U2LK7-5876	$(1 + 4p)/8p$	$P = 2.2$	1.5964
	86A38T-5871	$(1 + 4p)/8p$	$p=2.2$	1.5965
	99RK3J-5871	$(1 + 4p)/8p$	$p=2.2$	1.5965
	A4RVXG-5871	$(1 + 4p)/8p$	$p=2.2$	1.5965
	AGERET-5871	$(1 + 4p)/8p$	$p=2.1$	1.596
	BKQCHK-5871	$(Z1/4pa)+Z0$	$a=2.2$	1.5965
	DM3W6P-5871			1.5962
	EVTYLQ-5871	$(1 + 4p)/8p$	$p=2.2$	1.5965
	F3GNEB-5871	$(1 + 4p)/8p$	$p=2.2$	1.5965
	G8QJFP-5871	$(0.25 + p)/2p$	$p=2.2$	1.5965
	GL7PHC-5871	$(1 + 4p)/8p$	$2.2=0.1140$	1.5965
	GLPBE9-5876	$(1 + 4p)/8p$	$p=2.2$	1.5965
	JCABX3-5876	$(1 + 4p)/8p$	$p=2.2$	1.596491228
	LEUTB8-5871	$(1 + 4p)/8p$	$p = 2.2$	1.5965
	LNTXU9-5876	$(1 + 4p)/8p$	$p=2.2$	1.5965
	LYHGHE-5871	$(1 + 4p)/8p$	$p = 2.2$	1.5965
NWZBQU-5871	$(1 + 4p)/8p$	$p=2.2$	1.596491228	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
PentaD	PAK7N7-5871	$(0.25+a)/2a$	a=2.2 b=11 c=8	1.5965
	PCC4YX-5871	$(1+4p)/8p$	p=2.2	1.596491
	QBVAV3-5871	$(0.25+a)/2a$	a = 2.2	1.5965
	QTKPGN-5871	$(1+4p)/8p$	p=2.2	1.5964
	RC94B3-5871	$(1+4p)/8p$	p=2.2	1.5965
	TH4JEF-5871	$(1+4x)/8x$	x=2.2	1.5964
	TPNLLH-5871	$(1+4p)/8p$	p=2.2	1.5965
	UNWDC3-5871	$(1+4p)/8p$	p=2.2	1.5965
	WWGHXY-5871	$(K1+2K0a)/2a$	a=2.2	1.596491228
	WXMKGM-5876	$(1+4p)/8p$	p=2.2	1.596

Statistical Analysis Summary of PentaD
Likelihood Ratio Mode: 1.5965

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
PentaE	2JP2QY-5871	k0		0.5
	3QN2M7-5876	1/2		0.5000
	48RZ3M-5876	R=2bc(k0),U=2bc,HSI=R/U	A=13 B=8 C=16 K1=0.25 K0=0.5	0.500
	4FL9MD-5876	1/2		0.50000
	4KQ2AZ-5876	1/2		0.5
	6E6BVE-5876	1/2		0.5000
	6R3D3R-5876	2:4		0.5
	6U2LK7-5876	1/2	P = 13 Q = 8 R = 16	0.5
	86A38T-5871	2/4		0.5000
	99RK3J-5871	2/4		0.50000
	A4RVXG-5871	2/4		0.50000
	AGERET-5871	1/2		0.5
	BKQCHK-5871	Z0		0.5000
	DM3W6P-5871			0.5000
	EVTYLQ-5871	1/2		0.50
	F3GNEB-5871	1/2		0.5
	G8QJFP-5871	0.5		0.5
	GL7PHC-5871	1/2		0.5000
	GLPBE9-5876	0.5		0.5
	JCABX3-5876	2/4		0.5
	LEUTB8-5871	2/4		0.50000
LNTXU9-5876	0.5		0.5000	
LYHGHE-5871	2/4		0.5000	
NWZBQU-5871	0.5		0.5	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
PentaE	PAK7N7-5871	$cd/2cd$	$c=8 \ d=16$	0.5000
	PCC4YX-5871	$2/4$		0.500
	QBVAV3-5871	$cd/2cd=0.5$	$c = 8 \ d = 16$	0.5
	QTKPGN-5871	$1/2$		0.5
	RC94B3-5871	$(0.5 * p^2) / p^2$	$p=13$	0.5
	TH4JEF-5871	$1/2$		0.5000
	TPNLLH-5871	$1/2$		0.5000
	UNWDC3-5871	$1/2$		0.5000
	WWGHXY-5871	K0		0.5
	WXMKGM-5876	$1/2$		0.5000

Statistical Analysis Summary of PentaE
Likelihood Ratio Mode: 0.5

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
SE33	2JP2QY-5871	$k1 + 2k0a/2a$	$a = 19$	1.483
	3QN2M7-5876	$(1 + 4p)/8p$	$p = 19$	1.483
	48RZ3M-5876	$R=c(k1)+2ac(k0),U=2ac,HSI=R/U$	$A=19 B=23.2 C=16 K1=0.25 K0=0.5$	1.485
	4FL9MD-5876	$(1 + 4p)/8p$	$p = 19$	1.4827
	4KQ2AZ-5876	$(1 + 4p)/8p$	$p = 19$	1.483
	6E6BVE-5876	$(1 + 4p)/8p$	$p = 19$	1.4827
	6R3D3R-5876	$(1 + 4p)/8p$	$p = 19$	1.48270
	6U2LK7-5876	$(1 + 4p)/8p$	$P = 19$	1.4827
	86A38T-5871	$(1 + 4p)/8p$	$p = 19$	1.4827
	99RK3J-5871	$(1 + 4p)/8p$	$p = 19$	1.4827
	A4RVXG-5871	$(1 + 4p)/8p$	$p = 19$	1.4827
	AGERET-5871	$(1 + 4p)/8p$	$p = 19$	1.482
	BKQCHK-5871	$(Z1/4pa)+Z0$	$a = 19$	1.4827
	DM3W6P-5871			1.4828
	EVTYLQ-5871	$(1 + 4p)/8p$	$p = 19$	1.4827
	F3GNEB-5871	$(1 + 4p)/8p$	$p = 19$	1.4827
	G8QJFP-5871	$(0.25 + p)/2p$	$p = 19$	1.4827
	GAFQZM-5876	*	*	1.439
	GL6PQP-5876	*	*	1.439
	GL7PHC-5871	$(1 + 4s)/8s$	$19=0.1272$	1.4827
	GLPBE9-5876	$(1 + 4p)/8p$	$p = 19$	1.4827
	JCABX3-5876	$(1 + 4p)/8p$	$p = 19$	1.482704403
	LEUTB8-5871	$(1 + 4p)/8p$	$p = 19$	1.4827
	LNTXU9-5876	$(1 + 4p)/8p$	$p = 19$	1.4827

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
SE33	LYHGHE-5871	$(1+4p)/8p$	$p = 19$	1.4827
	N42L4E-5876	*	*	1.4391
	NWZBQU-5871	$(1+4p)/8p$	$p=19$	1.482704403
	PAK7N7-5871	$(0.25+a)/2a$	$a=19$ $b=23.2$ $c=16$	1.4827
	PCC4YX-5871	$(1+4p)/8p$	$p=19$	1.482704
	QBVAV3-5871	$(0.25+c)/2c$	$c = 19$	1.4827
	QTKPGN-5871	$(1+4p)/8p$	$p=19$	1.4827
	RC94B3-5871	$(1+4p)/8p$	$p=19$	1.4827
	TH4JEF-5871	$(1+4s)/8s$	$s=19$	1.4827
	TKTPYC-5876	*	*	1.439
	TPNLLH-5871	$(1+4p)/8p$	$p=19$	1.4827
	UNWDC3-5871	$(1+4p)/8p$	$p=19$	1.4827
	WWGHXY-5871	$(K1+2K0a)/2a$	$a=19$	1.482704403
	WXMKGM-5876	$(1+4p)/8p$	$p=19$	1.482

Statistical Analysis Summary of SE33
Likelihood Ratio Mode: 1.4827

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
TH01	2JP2QY-5871	$k^2 + 2k_1a + k_0a^2/a^2$	$a = 7$	1.726
	3QN2M7-5876	$(1+p)/2p$	$p=7$	1.726
	48RZ3M-5876	$R=\alpha(k_1)+\alpha(k_1)+\alpha^2(k_0), U=\alpha^2, H$ $SI=R/U$	$A=7 K1=0.25 K0=0.5$	1.726
	4FL9MD-5876	$(1+p)/2p$	$p=7$	1.7258
	4KQ2AZ-5876	$(1+p)/2p$	$p=7$	1.726
	6E6BVE-5876	$(1+p)/2p$	$p=7$	1.7258
	6R3D3R-5876	$2p(1+p)/(2p)^2$	$p=7$	1.72579
	6U2LK7-5876	$2p(1+p)/(2p)^2$	$P = 7$	1.7257
	86A38T-5871	$(2p(1+p))/(2p)^2$	$p=7$	1.7258
	99RK3J-5871	$[2p(1+p)]/(2p)^2$	$p=7$	1.7258
	A4RVXG-5871	$(2p(1+p))/(2p)^2$	$p=7$	1.7258
	AGERET-5871	$0.5(1+p)/p$	$p=7$	1.725
	BKQCHK-5871	$(Z^2/p\alpha * p\alpha) + (Z1/p\alpha) + Z0$	$\alpha=7$	1.7258
	DM3W6P-5871			1.7258
	EVTYLQ-5871	$(1+p)/2p$	$p=7$	1.7258
	F3GNEB-5871	$(1+p)/2p$	$p=7$	1.7258
	G8QJFP-5871	$(0.5p+0.5pp)/(pp)$	$p=7$	1.7258
	GAFQZM-5876	*	*	1.677
	GL6PQP-5876	*	*	1.677
	GL7PHC-5871	$(1+p)/2p$	$7=0.4079$	1.7258
	GLPBE9-5876	$(1+p)2p$	$p=7$	1.7258
	JCABX3-5876	$(2p(1+p))/(2p)^2$	$p=7$	1.725790635
	LEUTB8-5871	$(2p(1+p))/(2p)^2$	$p = 7$	1.7258
	LNTXU9-5876	$[2p*(1+p)]/[2p*2p]$	$p=7$	1.7258

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
TH01	LYHGHE-5871	$(2p(1+p))/(2p)(2p)$	$p = 7$	1.7258
	N42L4E-5876	*	*	1.6767
	NWZBQU-5871	$(p+q+4pq)/8pq$	$p=7 \ q=7$	1.112895317
	PAK7N7-5871	$(0.5+(a/2))/a$	$a=7$	1.7258
	PCC4YX-5871	$2p(1+p)/2p^2$	$p=7$	1.725791
	QBVAV3-5871	$(0.5+(a/2))/a$	$a = 7$	1.7258
	QTKPGN-5871	$2p(1+p)/2p^2$	$p=7$	1.7257
	RC94B3-5871	$(1+p)/2p$	$p=7$	1.7258
	TH4JEF-5871	$(1+p)/2p$	$p=7$	1.7257
	TKTPYC-5876	*	*	1.677
	TPNLLH-5871	$(1+p)/2p$	$p=7$	1.7258
	UNWDC3-5871	$(1+p)/2p$	$p=7$	1.7258
	WWGHXY-5871	$(2K1+K0a)/a$	$a=7$	1.725790635
	WXMKGM-5876	$(1+p)/2p$	$p=7$	1.725

Statistical Analysis Summary of TH01
Likelihood Ratio Mode: 1.7258

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
TPOX	2JP2QY-5871	k0		0.5
	3QN2M7-5876	1/2		0.5000
	48RZ3M-5876	R=2cd(k0),U=2cd,HIS=R/U	A=8 B=9 C=6 D=11 K1=0.25 K0=0.5	0.500
	4FL9MD-5876	1/2		0.5000
	4KQ2AZ-5876	1/2		0.5
	6E6BVE-5876	1/2		0.50000
	6R3D3R-5876	2:4		0.5
	6U2LK7-5876	1/2	P = 8 Q = 9 R = 6 S = 11	0.5
	86A38T-5871	2/4		0.5000
	99RK3J-5871	2/4		0.50000
	A4RVXG-5871	2/4		0.50000
	AGERET-5871	1/2		0.5
	BKQCHK-5871	Z0		0.5000
	DM3W6P-5871			0.5000
	EVTYLQ-5871	1/2		0.50
	F3GNEB-5871	1/2		0.5
	G8QJFP-5871	0.5		0.5
	GAFQZM-5876	*	*	0.5000
	GL6PQP-5876	*	*	0.5000
	GL7PHC-5871	1/2		0.5000
	GLPBE9-5876	0.5		0.5
	JCABX3-5876	2/4		0.5
	LEUTB8-5871	2/4		0.50000
	LNTXU9-5876	0.5		0.5000

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
TPOX	LYHGHE-5871	2/4		0.5000
	N42L4E-5876	*	*	0.5000
	NWZBQU-5871	0.5		0.5
	PAK7N7-5871	cd/2cd	c=6 d=11	0.5000
	PCC4YX-5871	2/4		0.500
	QBVAV3-5871	cd/2cd=0.5	c = 6 d = 11	0.5
	QTKPGN-5871	1/2		0.5
	RC94B3-5871	(0.5*2pq)/2pq	p=8	0.5
	TH4JEF-5871	1/2		0.5000
	TKTPYC-5876	*	*	0.5000
	TPNLLH-5871	1/2		0.5000
	UNWDC3-5871	1/2		0.5000
	WWGHXY-5871	K0		0.5
	WXMKGM-5876	1/2		0.5000

Statistical Analysis Summary of TPOX
Likelihood Ratio Mode: 0.5000

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
vWA	2JP2QY-5871	$k1 + 2k0a/2a$	$a = 15$	1.153
	3QN2M7-5876	$(1 + 4p)/8p$	$p = 15$	1.153
	48RZ3M-5876	$R=c(k1)+2ac(k0),U=2ac,HSI=R/U$	$A=15 B=17 C=16 K1=0.25 K0=0.5$	1.153
	4FL9MD-5876	$(1 + 4p)/8p$	$p = 15$	1.1527
	4KQ2AZ-5876	$(1 + 4p)/8p$	$p = 15$	1.153
	6E6BVE-5876	$(1 + 4p)/8p$	$p = 15$	1.1527
	6R3D3R-5876	$(1 + 4p)/8p$	$p = 15$	1.15274
	6U2LK7-5876	$(1 + 4p)/8p$	$P = 15$	1.1527
	86A38T-5871	$(1 + 4p)/8p$	$p = 15$	1.1527
	99RK3J-5871	$(1 + 4p)/8p$	$p = 15$	1.1527
	A4RVXG-5871	$(1 + 4p)/8p$	$p = 15$	1.1527
	AGERET-5871	$(1 + 4p)/8p$	$p = 15$	1.152
	BKQCHK-5871	$(Z1/4pa)+Z0$	$a = 15$	1.1527
	DM3W6P-5871			1.1527
	EVTYLQ-5871	$(1 + 4p)/8p$	$p = 15$	1.1527
	F3GNEB-5871	$(1 + 4p)/8p$	$p = 15$	1.1527
	G8QJFP-5871	$(0.25 + p)/2p$	$p = 15$	1.1527
	GAFQZM-5876	*	*	1.139
	GL6PQP-5876	*	*	1.139
	GL7PHC-5871	$(1 + 4p)/8p$	$15=0.1915$	1.1527
	GLPBE9-5876	$(1 + 4p)/8p$	$p = 15$	1.1527
	JCABX3-5876	$(1 + 4p)/8p$	$p = 15$	1.152741514
	LEUTB8-5871	$(1 + 4p)/8p$	$p = 15$	1.1527
	LNTXU9-5876	$(1 + 4p)/8p$	$p = 15$	1.1527

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
vWA	LYHGHE-5871	$(1+4p)/8p$	$p = 15$	1.1527
	N42L4E-5876	*	*	1.1392
	NWZBQU-5871	$(1+4p)/8p$	$p=15$	1.152741514
	PAK7N7-5871	$(0.25+a)/2a$	$a=15$ $b=17$ $c=16$	1.1527
	PCC4YX-5871	$(1+4p)/8p$	$p=15$	1.152742
	QBVAV3-5871	$(0.25+a)/2a$	$a = 15$	1.1527
	QTKPGN-5871	$(1+4p)/8p$	$p=15$	1.1527
	RC94B3-5871	$(1+4p)/8p$	$p=15$	1.1527
	TH4JEF-5871	$(1+4p)/8p$	$p=15$	1.1527
	TKTPYC-5876	*	*	1.139
	UNWDC3-5871	$(1+4p)/8p$	$p=15$	1.1527
	WWGHXY-5871	$(K1+2K0a)/2a$	$a=15$	1.152741514
	WXMKGM-5876	$(1+4p)/8p$	$p=15$	1.152

Statistical Analysis Summary of vWA
Likelihood Ratio Mode: 1.1527

Kinship DNA Statistics

Is the claim of the following relationship supported by the genetic evidence: **Half-Sibling?**

TABLE 7

WebCode-Test	Kinship Index	Claim Supported?
2JP2QY-5871	503.7	Yes
3QN2M7-5876	503.6	Yes
48RZ3M-5876	504.6887	Yes
4FL9MD-5876	503.5	Yes
4KQ2AZ-5876	504.009021054	Inconclusive
6E6BVE-5876	503.5	No
6R3D3R-5876	LR=503.5655956; Probability=99.80180971%	Yes
6U2LK7-5876	503.350081	Yes
86A38T-5871	503.53	Yes
99RK3J-5871	503.6	Yes
A4RVXG-5871	503.5	Yes
AGERET-5871	500.384	Yes
BKQCHK-5871	503.6	Yes
DM3W6P-5871	501.8432	Yes
EVTYLQ-5871	503.5656	Yes
F3GNEB-5871	266.2832	Yes
G8QJFP-5871	503	Yes
GAFQZM-5876	120	Yes
GL6PQP-5876	120	Yes
GL7PHC-5871	503.5656	Yes
GLPBE9-5876	503.6021	Yes
JCABX3-5876	503.5655956	Yes
LEUTB8-5871	503.5	Yes
LNTXU9-5876	503.57	Yes
LYHGHE-5871	503.5	Yes
N42L4E-5876	120	Yes
NWZBQU-5871	41.2696771	Yes
PAK7N7-5871	503.5	Yes
PCC4YX-5871	504	Yes

TABLE 7 - Kinship DNA Statistics

WebCode-Test	Kinship Index	Claim Supported?
QBVAV3-5871	503.5	Yes
QTKPGN-5871	503.353336	Yes
RC94B3-5871	500	Yes
TH4JEF-5871	8.5099	Inconclusive
TKTPYC-5876	120	Yes
TPNLLH-5871	436.8417	Yes
UNWDC3-5871	503.528264698	Yes
WWGHXY-5871	503,56559564	No
WXMKGM-5876	503.5	Yes

Response Summary		Participants: 38
<i>Is the relationship claim of Half-Sibling supported?</i>		
Yes	34	
No	2	
Inconclusive	2	

Additional Kinship Statistical Results

TABLE 8

WebCode-Test	Additional Statistical Results and Relationship Conclusions
2JP2QY-5871	Based on the autosomal DNA testing undertaken, it is 503.7 times more likely that the two individuals are half-siblings rather than unrelated, corresponding to a probability of 99.80%. This means that the DNA results obtained do provide evidence for the proposed relationship of half-siblings
3NQD3-5876	In the guidelines of our laboratory, statistical calculations for biological kinship relationships of half brotherhoods are not contemplated.
4FL9MD-5876	[Laboratory] reports the three major ethnic groups statistics in reports, regardless of reported races of individuals. Based on the other ethnic groups, the kinship index results of a relationship of half-sibling were supported.
6R3D3R-5876	Hypothesis 1: Person C and D are African American half sibling. Hypothesis 2: Person C and D are unrelated. It is 503.5655956 times more likely that person C and person D are half sibling than they are unrelated. Probability of kinship equals 99,80180971%. There is a quite strongly evidence of half sibblingship.
86A38T-5871	The shared results between the alleged siblings are 503.53 times more likely to be observed if they were half-siblings rather than if they were unrelated.
99RK3J-5871	The shared results between Alleged Sibling 1 and Alleged Sibling 2 are 503.6 times more likely to be observed if they were half-siblings rather than if they were unrelated.
A4RVXG-5871	The shared results between Alleged Sibling 1 (C) and Alleged Sibling 2 (D) are 503.5 times more likely to be observed if they were half-siblings rather than if they were unrelated.
BKQCHK-5871	Z0=0.5; Z1=0.5; Z2=0.
DM3W6P-5871	The results support hypothesis 1. Assuming an a-priori probability of 50% for both hypotheses (half siblings against unrelated), a probability of more than 99,8011% has been calculated for hypothesis 1; the tested participants are half siblings. The formulas were not provided by the software and therefore not included.
F3GNEB-5871	Two DNA profiles from African American half sibling relationship were compared by using the allele frequencies assigned for the test loci. There are likely to be half sibling relationship because probability of kinship index is greater than 99.62586506%
G8QJFP-5871	The kinship index is in favor of a half siblings relationship rather than unrelated, but the value is low.
GAFQZM-5876	*The likelihood ratios were calculated with the KIn CALc software that uses standard formulae for simple PI's and 2-person KI's that incorporate a theta value of 0.01 with allele probabilities with no rounding and a 1/k prior instead of just x/N. Combined kinship index omits the locus D12S391 due to linkage disequilibrium with vWA. ^ Only GlobalFiler loci used in calculation, additional loci (PentaD, PentaE) not tested at our laboratory.
GL6PQP-5876	*The likelihood ratios were calculated with the KinCALc software that uses the standard formulae for simple PI's and 2-person KI's that incorporate the theta value of 0.01 with allele probabilities with no rounding and a 1/k instead of x/N. The KinCALc software uses the NIST STRBase Population Database. Although the likelihood ratios for all loci are shown, only one of the vWA/D12S391 loci were used to calculate the combined KI, due to linkage between these two loci. For this example D12S391 was omitted. The scenario did not state if this was a paternal or maternal half sibling, so the maternal relationship was used. [Laboratory] does not test for or report PentaD and PentaE loci, therefore those loci were not reported.
GL7PHC-5871	Half Sibling Index: 503.5656. Probability (0.5 prior): 99.8%. AABB RT Standard 5.3.8.2 states that likelihood ratios greater than 10 shall be considered genetic evidence supporting the tested relationship. 100% of the ratios above this value have been found to be associated with a true second-degree relationship between the tested parties.

TABLE 8

WebCode-Test	Additional Statistical Results and Relationship Conclusions
GLPBE9-5876	Based on AABB standards, these results would be accompanied by the narrative: The genetic evidence supports the relationship of C and D as second-degree relatives such as half siblings. Pu and Linacre have shown at a likelihood ratio greater than 33 that STR test results correctly confirm second-degree relationships greater than 99% of the time. [Increasing the confidence in half-sibship determination based upon 15 STR loci. Pu and Linacre. Journal of Forensic and Legal Medicine 15 (2008) 373–377.]
LEUTB8-5871	The shared results between C and D are 503.5 times more likely to be observed if they were half-siblings rather than if they were unrelated.
LYHGHE-5871	The shared results between Sibling C and Sibling D are 503.5 times more likely to be observed if they were half-siblings rather than if they were unrelated.
N42L4E-5876	*The likelihood ratios were calculated with KInCALc software that used the standard formulae for simple PI's and 2-person KI's that incorporate the theta value of 0.01 with allele probabilities with no rounding and a 1/k prior instead of x/N. The KInCALc software uses the NIST STRBase Population Database. Although the likelihood ratios for all loci are reported, only one of the vWA/D12S391 loci were used to calculate the combined KI, due to genetic linkage between these two loci. For this scenario, D12S391 was omitted. The scenario did not state whether they share a mother or father, so the maternal relationship was used. [Laboratory] does not test for or report Penta D and Penta E loci, therefore those loci were not reported.
PAK7N7-5871	Item 001.C: Profile D - Half sibling. AUTOSOMAL STRs: The DNA profile is single source. The kinship index supports the hypothesis that Profile D is the Half sibling of Profile C using the reference populations listed. The genotype observed for Profile D is "X" times more likely to occur in a Half sibling of Profile C than in someone unrelated to Profile C from the reference populations listed where "X" equals: African American - 440, Caucasian - 110 THOUSAND, Hispanic - 220 THOUSAND. Penta D and Penta E were not used in the statistical calculation because our laboratory reports Globalfiler loci and use the FBI database for allele frequencies.
QTKPGN-5871	In the case presented, the probability of brotherhood is 99.80% in relation to a random individual. If the siblings are male and want to know if they share the same biological father, then it is preferable that they opt for the DNA test of the Y chromosome since it is a much more accurate test.
TH4JEF-5871	The probability of kinship is calculated via Excel using formula derived from DNView Software. [Laboratory Specific SOP] states that for $LR^{10} \geq LR > 0$ will be interpreted as inconclusive.
TKTPYC-5876	* The likelihood ratios shown above were calculated using the Kin CALc software that uses standard formulae for simple PI's and 2-person KI's that incorporate a theta value of 0.01 with allele probabilities with no rounding and a 1/k instead of x/N. **The combined KI (African American) shown above does not include D12S391. D12S391 was removed due to genetic linkage with vWA. The Penta D and Penta E loci were not calculated as these loci are not tested in this laboratory.
UNWDC3-5871	Kinship Index (CLR) = 503.528264698. Posterior probability = 0.99801795049. The probability of kinship equals 99.801795049%, There is very strong evidence of Half-Siblingship.
WWGHXY-5871	Making the comparison between the genetic profile of the half sibling relationship ,is obtained a kinship index of 503,5659564 and a probability fo relationship of 99,80180971 %.

Additional Comments

TABLE 9

WebCode-Test	Additional Comments
3BTN7P-5871	Blood stain labeled with item 3 is the biological father of the donor of blood stain labeled with item 2
3M9D6U-5871	NR = No result. PowerPlex Fusion and YFiler were performed on Items 2 - 4. Results are concordant at DYS391.
4FL9MD-5876	[Laboratory] reports the three major ethnic groups statistics in reports, regardless of reported races of individuals.
6ABCGJ-5871	Our laboratory uses an ANDE Rapid DNA instrument with the FAIRS Claimed Relationship software, and does not produce PI calculations.
86A38T-5871	Part II: For the locus and Combined Paternity Index values, our laboratory protocol is to report the smallest CPI calculated in PopStats of the selected population groups/ethnicities. Assuming prior probabilities of 10%, 50%, and 90%, the probability of paternity in this case is greater than 99.99%. The following locus was not used in the statistical calculation: vWA. Per laboratory policy, the vWA locus will not be used for statistical evaluations when complete profiles are used for kinship comparisons.
99RK3J-5871	For part II, the locus vWA was not used in the statistical calculation. For the locus and combined paternity index values, our laboratory protocol is to report the smallest CPI calculated in FBI Popstats of the selected population groups/ethnicities. The probability of paternity was calculated assuming prior probabilities of 10%, 50% and 90%.
9HUP9E-5876	SE33 not used for statistics in laboratory procedure
A4RVXG-5871	For Part II, per Laboratory policy: The vWA locus will not be used for statistical calculations when complete profiles are used for kinship comparisons. For the Locus and Combined Paternity Index values, the smallest CPI calculated in Popstats for the selected population groups/ethnicities is reported. Assuming prior probabilities of 10%, 50%, and 90%, the probability of paternity in this case is greater than 99.99%.
B7C6KM-5871	PI is not calculated when an individual is excluded as the biological father. The laboratory protocol is not to include the vWA or D12S391 loci for paternity calculations.
BXHYRL-5871	Per laboratory protocol, the most conservative statistic will be reported for the individual included as the possible biological father of the child. Also per laboratory protocol no statistic will be calculated for an individual excluded as being a possible biological father.
GAFQZM-5876	*The likelihood ratios were calculated with the KIn CALc software that uses standard formulae for simple PI's and 2-person KI's that incorporate a theta value of 0.01 with allele probabilities with no rounding and a 1/k prior instead of just x/N. Combined kinship index omits the locus D12S391 due to linkage disequilibrium with vWA.
GL6PQP-5876	Part II; Paternity DNA Statistics: The KinCALc software was used to calculate the paternity indices using the standard formulae for simple PI's that incorporate a theta value of 0.01 with allele probabilities with no rounding and a 1/k instead of x/N. The KinCALc software uses the NIST STRBase Population Database. Although the paternity index for all loci are shown, only one of the vWA/D12S391 loci were used to calculate the combined KI, due to linkage between these two loci. For this example D12S391 was omitted. Our laboratory does not report the Probability of Paternity.
HNP4LC-5871	NR = No Results. The allele call at DYS391 was found to be concordant in the YFiler and PowerPlex Fusion kits for Item 2. The allele call at DYS391 was found to be concordant in the YFiler and PowerPlex Fusion kits for Item 3. The allele call at DYS391 was found to be concordant in the YFiler and PowerPlex Fusion kits for Item 4.

TABLE 9

WebCode-Test	Additional Comments
HXEKLE-5871	The most conservative statistic (lowest PI or LR) is included in report (Southwest Hispanic). The laboratory does not report out the probability of parentage (%). The laboratory does not do hand calculations for kinship statistics.
JDKDK2-5876	SE33 not used in the calculation of Paternity Index at the [Laboratory].
LEUTB8-5871	For Part II: Paternity DNA Statistics, assuming prior probabilities of 10%, 50%, and 90%, the probability of paternity in this case is >99.99%. Per laboratory policy, the vWA locus was not used in the statistical calculation. For the locus and combined Paternity Index values, our laboratory protocol is to report the smallest CPI calculated in Popstats of the selected population groups/ethnicities.
LYHGHE-5871	For part II, the locus vWA was not used in the statistical calculation. The probability of paternity was calculated assuming prior probabilities of 10%, 50% and 90%.
N42L4E-5876	NR = no results. Part II: Paternity DNA Statistics: The KInCALc software was used to calculate the paternity indices using the standard formulae for simple PI's and 2-person KI's that incorporate a theta value of 0.01 with allele probabilities with no rounding and a 1/k prior instead of x/N. The KInCALc software uses the NIST STRBase Population Database. Although the paternity index for all loci are reported, only one of the vWA/D12S391 loci were used to calculate the combined KI, due to genetic linkage between the two loci. For this calculation, D12S391 was omitted. Our laboratory does not report the probability of paternity.
PAK7N7-5871	Item 001.A.01.a: Biological stain cutting of blood FTA card described as coming from Victim Victim; a ~5mm x ~5mm cutting consumed; DNA Number E3237. AUTOSOMAL STRs: The DNA profile is single source. Item 001.A.02.a: Biological stain cutting of blood FTA card described as coming from Victim Child; a ~5mm x ~5mm cutting consumed; DNA Number E3238. AUTOSOMAL STRs: The DNA profile is single source. Y-STRs: The DNA profile is single source. Item 001.A.03.a: Biological stain cutting of blood FTA card described as coming from Subject Subject A; a ~5mm x ~5mm cutting consumed; DNA Number E3239. AUTOSOMAL STRs: The DNA profile is single source. The alleged father, Subject Subject A, cannot be excluded as the potential biological father of the child, Victim Child, using Autosomal STRs. These profiles are "X" times more likely to occur if Victim Child is the child of Victim Victi and Subject Subject A than if Victim Child is the child of Victim Victim and a random person from the reference populations listed where "X" equals: African American - 3.7 TRILLION, Caucasian - 2.1 TRILLION, Hispanic - 510 BILLION. Y-STRs: The DNA profile is single source. The alleged father, Subject Subject A, cannot be excluded as the potential biological father of Victim Child using Y-STRs. These profiles are "X" times more likely to occur if the above-references individuals (or their patrilineal relatives) are the contributors than if the source of the evidence is random, unrelated person from the reference populations listed where "X" equals: African American – 2080, Caucasian – 2422, Hispanic – 1795. *Numbers are based upon the YHRD Database and a 95% confidence limit. Item 001.A.04.a: Biological stain cutting of blood FTA card described as coming from Subject Subject B; a ~5mm x ~5mm cutting consumed; DNA Number E3240. AUTOSOMAL STRs: The DNA profile is single source. The alleged father, Subject Subject B, is excluded as the potential biological father of the child, Victim Child using Autosomal STRs. Y-STRs: The DNA profile is single source. The alleged father, Subject Subject B, is excluded as the potential biological father of the child, Victim Child using Y-STRs.
PV49J6-5871	Our laboratory does not calculate a Paternity Index. Per our SOP, we identify obligate alleles which are used to calculate a "Random Man Not Excluded" (RMNE) statistic. For this case, the obligate alleles were as follows: D3 (17), vWA (17), D16 (10), CSF (11), TPOX (8), D8 (13), D21 (30.2), D18 (15), D2S441 (10), D19 (14, 15), TH01 (6), FGA (22), D22 (17), D5 (13), D13 (10), D7 (10), SE33 (16, 31.2), D10 (14), D1 (15), D12 (17), and D2S1338 (22). RMNE report statement: The expected frequency of individuals who could be the father of #2 is less than 1 in 100 billion in the general male population, 100 billion being our laboratory's ceiling statistic. NR = No Result

TABLE 9

WebCode-Test	Additional Comments
QBVAV3-5871	<p>Item 001.A.01.a: Biological stain cutting of blood FTA card described as coming from Victim Victim; ~5mm by ~5mm cutting consumed; DNA number E3246. AUTOSOMAL STRs: The DNA profile is single source. Item 001.A.02.a: Biological stain cutting of blood FTA card described as coming from Victim Child; ~5mm by ~5mm cutting consumed; DNA Number E3247. AUTOSOMAL STRs: The DNA profile is single source. Y-STRs: The DNA profile is single source. Item 001.A.03.a: Biological stain cutting of blood FTA card described as coming from Subject Subject A; ~5mm by ~5mm cutting consumed; DNA Number E3248. AUTOSOMAL STRs: The DNA profile is single source. The alleged father, Subject Subject A, cannot be excluded as the potential biological father of the child, Victim Child using Autosomal STRs. These profiles are "X" times more likely to occur if Victim Child is the child of Victim Victim and Subject Subject A than if Victim Child is the child of Victim Victim and a random person from the reference populations listed where "X" equals: African American – 3.7 trillion, Caucasian – 2.1 trillion, Hispanic – 510 billion. Y-STRs: The DNA profile is single source. The alleged father, Subject Subject A, cannot be excluded as the potential biological father of Victim Child using Y-STRs. These profiles are "X" times more likely to occur if the above-referenced individuals (or their patrilineal relative(s)) are the contributors than if the source of the evidence is a random, unrelated person from the reference populations listed where "X" equals*: African American – 2080, Caucasian – 2422, Hispanic – 1795. *Numbers are based upon the YHRD database and a 95% confidence limit. Item 001.A.04.a: Biological stain cutting of blood FTA card described as coming from Subject Subject B; ~5mm by ~5mm cutting consumed; DNA Number E3249. AUTOSOMAL STRs: The DNA profile is single source. The alleged father, Subject Subject B, is excluded as the potential biological father of the child, Victim Child using Autosomal STRs. Y-STRs: The DNA profile is single source. The alleged father, Subject Subject B, is excluded as the potential biological father of Victim Child using Y-STRs. Item 001.B: Profile C. AUTOSOMAL STRs: The DNA profile is single source. Item 001.C: Profile D. AUTOSOMAL STRs: The DNA profile is single source. The kinship index supports the hypothesis that Profile D is the half sibling of Profile C using the reference populations listed. The genotype observed for Profile D is "X" times more likely to occur in a half sibling of Profile C than in someone unrelated to Profile C from the reference populations listed where "X" equals: African American – 320, Caucasian – 610 thousand, Hispanic – 1.0 million.</p>
RDPLUC-5876	<p>Because of 17 genotypes incompatible with paternity between Son (item 2) and Alleged Father B (Item 4) we did not produce PI calculations for this hypothesis. PI calculations are produced only when less than 3 exclusion loci are observed. Probability of Paternity is calculated with equal prior probabilities for both hypothesis ($p(H_0) = p(H_1) = 0.5$). H_0: Mother (Item 1) and Alleged Father A (Item 3) are the biological parents of Son (Item 2). H_1: Mother (Item 1) and an unknown man, unrelated to Alleged Father A and taken at random from the population, are the biological parents of Son (Item 2).</p>
TH4JEF-5871	<p>1) On comparison to the DNA profiles obtained, I found that the source of bloodstained specimen Item 3 is the biological father to the source of bloodstained specimen Item 2.(given that the biological mother is represented by the source of bloodstained specimen Item 1). 2)On comparison to the DNA profiles obtained, I found that the source of bloodstained specimen Item 4 is not the biological father to the source of bloodstained specimen Item 2.(given that the biological mother is represented by the source of bloodstained specimen Item 1). 3)Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using in-situ method. 4)Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using GlobalFiler Express PCR amplification kit on Applied Biosystem Proflex PCR system. Item 2, Item 3 and Item 4 were further amplified using AmpFLSTR Y-Filer PCR Amplification kit on Applied Biosystem Proflex PCR system. 5)Electrophoresis: Electrophoresis was carried out using Genetic Analyzer 3500 for all amplified product of GlobalFiler Express and Y-Filer Amplification kit. 6)Quality Control:Reagent blank, Positive Control, Negative Control were incorporated in the overall analysis and gave expected results. 7)The statistical formula were derived from DNAMView Statistical Software and calculated using Microsoft Excel. 8)NM:Non-male profile.</p>

TABLE 9

WebCode-Test	Additional Comments
TKTPYC-5876	The paternity indexes (PI) were calculated with the KinCalc software that uses standard formulae for simple PI's that incorporate a theta value of 0.01 with allele probabilities with no rounding and a 1/KI instead of just X/N. The KinCalc software uses the NIST STRBase population database. The combined KI (Hispanic) is only calculated to 2 significant figures by the Kin CALC software and does not include the D12S391 locus. The D12S391 locus was removed due to linkage with the vWA locus.
TUY2LT-5876	Popstats values were utilized for reported Parentage Index values at each locus. As per [Laboratory] policy, SE33 was not included in the Combined Paternity Index value or the Probability of Paternity calculation.
WC8XZA-5871	Per our lab policy, the Paternity Index calculation reported is based on the most conservative value, not based on race of the included individual. Per our lab policy, we do not report out statistics (Paternity Index calculations) for excluded individuals.
WJMLQ6-5871	CURRENTLY, THE LABORATORY DOES NOT DO SIBSHIP
X922LY-5871	NR=no results, PPF and YF are concordant
YCYV4Z-5876	CPI statistic reported without utilizing vWA due to linkage with D12S391 (both loci listed with per-locus PI) and utilizes the Southwest Hispanic database.
YE7ZV4-5876	The alleged father is the DNA of item 3 since half of the child's DNA is his. The DNA of item 4 is not the father because most of the loci do not match with the child's DNA. The paternity test is not presented since our lab does not do such calculations.
YPKEDW-5871	NR = No Result. Power Plex Fusion and YFiler concordant at DYS391 for Item 2. Power Plex Fusion and YFiler concordant at DYS391 for Item 3. Power Plex Fusion and YFiler concordant at DYS391 for Item 4.
ZUEJQZ-5871	The laboratory policy is to report either the applicable race set or the race set with the most conservative value for a paternity statistical calculation. Since the paternity trio used for the calculation did not have an exact race set matching one listed in the FBI Popstats database, the analyst followed the laboratory policy to report the race set with the most conservative value. This was the Chamorro race set in the FBI Popstats database and these were the statistical values submitted to CTS.

-End of Report-
(Appendix may follow)

Collaborative Testing Services ~ Forensic Testing Program

Test No. 23-5871: DNA Parentage

DATA MUST BE SUBMITTED BY **July 31, 2023, 11:59 p.m. EDT** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A

WebCode: YCGJMG

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:

A paternity case has been presented to your laboratory. Blood standards have been collected from the mother, son, and two alleged fathers. Your laboratory is tasked with examining the blood standards and comparing the DNA profiles.

Items Submitted (Sample Pack DPF2 - FTA Microcards):

Item 1: Blood Sample from Known Parent (Hispanic Mother)

Item 2: Blood Sample from Known Child (Hispanic Son)

Item 3: Blood Sample from Alleged Father A (Hispanic)

Item 4: Blood Sample from Alleged Father B (Hispanic)

DNA REPORTING INSTRUCTIONS

Use the instructions below to complete the following DNA Analysis sections of this data sheet

- Report alleles in numerical order, separated by a comma.
- Follow your laboratory procedures for reporting homozygotes (i.e. "14,14", "14,-", "14") and null responses
- PI = Paternity Index
- If your laboratory does not produce PI calculations, record your explanation within the Part IV: Additional comments section.

Example	D1S1656	D2S1338	D2S441	D3S1358	D5S818
STR	15,18	12,17	10	14	5,13
PI	1.65	3.01	3.16	4.12	5.65

Part I: DNA Analysis for Item 1

STR Amplification Kit(s) Used:

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

Identifiler®

GlobalFiler™

Investigator® 24plex

PowerPlex®

Other

Report the Probabilistic Genotyping Software Used (if applicable):

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						

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.
- Click "Add Row" to show another row of boxes for entry.

Locus	Item 1	Item 2	Item 3 Alleles	Item 3 PI	Item 4 Alleles	Item 4 PI

Part II: PATERNITY DNA STATISTICS

Select which of the alleged fathers below cannot be excluded as the biological parent of the child (Item 2) and answer the remaining questions based on your selection.

- Item 3 - Alleged Father A Item 4 - Alleged Father B

For the selected alleged parent, please utilize your own lab protocols regarding ethnicity and choose one of the following population databases for all statistical calculations in this test:

1. **FBI Popstats:** If FBI Popstats is already available in your laboratory then you may select that option, otherwise use the population database below.
2. **NIST-STRBASE** is a publicly available U.S. population dataset at STRBASE on the following NIST web site: <https://strbase.nist.gov/Info/Information/14#1036LB>
 - a. On the NIST web site, access the population database by selecting the hyperlink labeled "Revised allele frequencies file" under the title "Autosomal STRs: NIST U.S. Population Dataset (n = 1036)."
3. If you are unable to use one of the suggested population databases, report the population database used in the blank provided next to the 'Other Pop. Database' option. Due to the tendency for allele frequencies to vary amongst different databases, no consensus value will be determined for this option. When reporting a population database name, please refrain from using terms that would allude to a laboratory specific name or location; general terms such as 'local/state database' or 'laboratory specific database' are preferred.
4. If you did not calculate paternity statistics, please provide an explanation in your additional comments.

1. Choose a Population Database:

- FBI Popstats Pop. Database: NIST STRBASE Pop. Database:

Other Pop. Database:

2. Record the Combined Paternity Index value:

3. Record the Probability of Paternity:

Part III: KINSHIP DNA STATISTICS

Complete the following Kinship DNA Statistics section, **if applicable to your laboratory**, using the instructions below.

- Use the provided scenario for context.
- Use the supplied allele frequencies for calculations (adopted from the NIST STRBASE database).
- Only test the relationship in question (eg. half siblings versus unrelated).
- Complete the entire table including the formula used in the calculation and the allele legend.
- Report a minimum of four significant figures in your likelihood ratio values.

Example: Questioned Half Sibling Relationship

Locus	Profile A	Profile B	Allele Frequencies		Formula Used	Allele Legend	Likelihood Ratio
FGA	18, 26	18, 26	18: 0.0249	26: 0.0263	$(p+q+4pq) / 8pq$	p = 18 q = 26	10.27
vWA	14, 15	14, 17	14: 0.0928	15: 0.1053	$(1+4p)/8p$	p = 14	1.847
			17: 0.1053				

Scenario:

The two DNA profiles below are presented as a potential African American half sibling relationship. Using the allele frequencies shown for the tested loci, calculate the likelihood ratio for support of the proposed relationship versus being unrelated.

Locus	C	D	Allele Frequencies		Formula Used	Allele Legend	Likelihood Ratio
D1S1656	14,16.3	13,14	13: 0.1009	14: 0.2573	<input type="text"/>	<input type="text"/>	<input type="text"/>
			16.3: 0.1023				
D2S1338	16,22	21,22	16: 0.0556	21: 0.1360	<input type="text"/>	<input type="text"/>	<input type="text"/>
			22: 0.1374				
D2S441	11,14	11,14	11: 0.3626	14: 0.2675	<input type="text"/>	<input type="text"/>	<input type="text"/>
D3S1358	16,16	15,16	15: 0.3085	16: 0.3187	<input type="text"/>	<input type="text"/>	<input type="text"/>
D5S818	11,11	13,13	11: 0.2339	13: 0.2237	<input type="text"/>	<input type="text"/>	<input type="text"/>

Locus	C	D	Allele Frequencies		Formula Used	Allele Legend	Likelihood Ratio
D7S820	10,12	10,11	10: 0.3363	11: 0.2032	<input type="text"/>	<input type="text"/>	<input type="text"/>
			12: 0.0877				
D8S1179	14,15	14,14	14: 0.2939	15: 0.1901	<input type="text"/>	<input type="text"/>	<input type="text"/>
D10S1248	12,14	12,13	12: 0.1301	13: 0.2339	<input type="text"/>	<input type="text"/>	<input type="text"/>
			14: 0.2763				
D12S391	17,17	17,19	17: 0.1667	19: 0.1477	<input type="text"/>	<input type="text"/>	<input type="text"/>
D13S317	11,12	10,12	10: 0.0307	11: 0.3099	<input type="text"/>	<input type="text"/>	<input type="text"/>
			12: 0.4181				
D16S539	11,11	8,11	8: 0.0322	11: 0.3143	<input type="text"/>	<input type="text"/>	<input type="text"/>
D18S51	17,17	15,17	15: 0.1652	17: 0.1520	<input type="text"/>	<input type="text"/>	<input type="text"/>
D19S433	10,14	10,15.2	10: 0.0102	14: 0.2105	<input type="text"/>	<input type="text"/>	<input type="text"/>
			15.2: 0.0614				
D21S11	27,28	27,28	27: 0.0746	28: 0.2456	<input type="text"/>	<input type="text"/>	<input type="text"/>
D22S1045	11,15	15,17	11: 0.1447	15: 0.2515	<input type="text"/>	<input type="text"/>	<input type="text"/>
			17: 0.2091				

Locus	C	D	Allele Frequencies		Formula Used	Allele Legend	Likelihood Ratio
CSF1PO	8,12	10,12	8: 0.0556	10: 0.2500	<input type="text"/>	<input type="text"/>	<input type="text"/>
			12: 0.2953				
FGA	21,24	21,23	21: 0.1228	23: 0.1696	<input type="text"/>	<input type="text"/>	<input type="text"/>
			24: 0.1330				
PentaD	2.2,11	2.2,8	2.2: 0.1140	8: 0.1082	<input type="text"/>	<input type="text"/>	<input type="text"/>
			11: 0.1798				
PentaE	13,13	8,16	8: 0.1667	13: 0.1038	<input type="text"/>	<input type="text"/>	<input type="text"/>
			16: 0.0409				
SE33	19,23.2	16,19	16: 0.0482	19: 0.1272	<input type="text"/>	<input type="text"/>	<input type="text"/>
			23.2: 0.0175				
TH01	7,7	7,7	7: 0.4079		<input type="text"/>	<input type="text"/>	<input type="text"/>
TPOX	8,9	6,11	6: 0.0894	8: 0.3680	<input type="text"/>	<input type="text"/>	<input type="text"/>
			9: 0.1950	11: 0.2155			
vWA	15,17	15,16	15: 0.1915	16: 0.2500	<input type="text"/>	<input type="text"/>	<input type="text"/>
			17: 0.2354				

1. Evaluate the profiles above and record the kinship index.

2. Is the relationship of Half-Sibling supported by the genetic evidence?

3. Use the space provided to document any additional statistical results and relationship conclusions.

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.

Part IV: ADDITIONAL COMMENTS

Comments regarding any part of this Test.

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)