



DNA Parentage Test No. 23-5872/7

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 an Uncle/Nephew relationship claim was supported. Data were returned from 92 participants and are compiled into the following tables:

Report Contents:	Page:
<u>Manufacturer's Information</u>	<u>2</u>
<u>Summary Comments</u>	<u>5</u>
<u>Table 1: STR Amplification Kit(s) & Results</u>	<u>6</u>
<u>Table 2: Paternity Index Results</u>	<u>70</u>
<u>Table 3: YSTR Amplification Kit(s) & Results</u>	<u>91</u>
<u>Table 4: Additional DNA & PI Results</u>	<u>106</u>
<u>Table 5: Paternity DNA Statistics & Conclusions</u>	<u>107</u>
<u>Table 6: Kinship Likelihood Ratio Results</u>	<u>112</u>
<u>Table 7: Kinship DNA Statistics</u>	<u>158</u>
<u>Table 8: Additional Kinship Statistical Results</u>	<u>160</u>
<u>Table 9: Additional Comments</u>	<u>162</u>
<u>Appendix: Data Sheet</u>	

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 an Uncle/Nephew 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 μ L of blood, while each swab (two swabs per item) was spotted with 100 μ L 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 not the biological father of the Item 2 male, and Item 4 was created from a male donor who was 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 August 21, 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 an Uncle/Nephew 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

5872 - FTA™ Micro Cards

5877 - 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	11,11	20,23	11,15	15,15	13,13	18,19
	8,9	8,10	14,14	20,23	8,12	11,11
	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23	12,12	13,14	21,27.2	6,8	8,8
	15,17	NM	NM	NM	NM	
2	11,12	20,25	11,11	15,15	12,13	11,19
	7,8	8,12	14,15	17,23	12,13	11,11
	14,18	14,15.2	31,31	12,16	X,Y	11,14
	19,23	10,12	8,13	15,21	8,9.3	8,8
	17,17	10	21	16	2	
3	16.3,17.3	20,24	12,14	14,17	11,11	12,14
	9,12	13,13	13,13	17,18	8,8	11,11
	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21	9,13	13,13	19,28.2	7,7	8,11
	15,17	11	17	18	2	
4	12,13	17,25	10,11	15,16	12,12	11,20
	7,9	12,13	13,15	17,19.3	8,13	11,11
	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10,10	8,17	15,17	9.3,9.3	8,8
	17,19	10	21	16	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	37,38	15	13,14	12	28	22	10	11	13
	16	10	12	20	26	15	16	11	25
	37	11	11	21	16	20	22	12	10
3	35,36	14	12,14	13	29	23	11	13	13
	15	12	12	20	31	16	16	12	22
	40	13	13	17	18	21	24	10	12
4	38,38	15	13,14	12	28	22	10	11	13
	16	10	12	20	26	15	16	11	25
	37	11	11	21	16	20	22	12	10

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 - Grand Mean ± 3STD Range**

0-0.00336	0-0.203	0-0.0913	0-0.11	0-0.368	*
0-0.0184	0-0.405	0-0.0365	0-11.2	0-0.000999	0.247-6.77
0-0.0592	0-6.03	0-0.00341	0-0.00829	-	0-0.0373
0-0.135	0-0.128	0-7.45	0-0.00415	0-0.000886	0.458-1.5
1.01-2.79					

4PI - FBI PopStats

4.06-4.45	4.63-5.51	1.31-1.78	1.66-2.26	2.37-3.13	*
9.73-40	2.55-4.11	2.22-3.25	3.14-5.74	4.14-4.71	2.8-4.19
1.91-4.4	1.18-1.44	6.8-7.09	25-57.4	-	12.8-66.1
2.19-2.58	*	*	11.4-12.6	2.59-3.7	1.75-1.96
1.71-2					

4PI - Grand Mean ± 3STD Range**

0-36	1.84-8.42	0.988-2.05	0.294-3.6	0-6.87	*
0-52.7	0-23.8	1.78-3.46	0-13.5	1.54-7.45	0-7.33
0.523-6.71	0-4.04	0-20.8	6.45-68.8	-	11.1-76.4
0-7.49	4.25-13.4	5.16-65.2	0-91.8	0-15.6	1.01-2.85
0.931-2.77					

4PI - NIST-STRBASE

0-48.7	1.66-8.66	0.811-2.2	0-4.29	0-8.56	*
0-53.2	0-32.8	1.66-3.55	0-18	3.93-4.66	0-8.94
0.126-7.9	0-5.25	0-26.8	5.03-67.9	-	22.6-74.1
0-9.74	3.94-14	5.25-65	0-120	0-8.2	0.763-3.26
0.642-3.06					

* 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 not the biological father of the Item 2 male, and Item 4 was created from a male donor who was 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 provided DNA profiles and report the kinship index and conclusions for a proposed Uncle/Nephew relationship. (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 four 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 4 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-six participants submitted a response for the paper kinship exercise. For the loci likelihood ratio data, seven participants reported extreme data in comparison to the calculated mode, six of which reported this data at multiple loci.

Of the 36 participants, 25 reported a combined Kinship Index between 72 and 85.9. A consensus was not achieved concerning the Uncle/Nephew relationship (Hispanic). Twenty-six participants reported that the relationship claim was supported, one participant reported that the relationship claim was not supported, and nine 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

2GLPX3-5872	PowerPlex® 21, GlobalFiler™					
	11	20,23	11,15	15	13	18,19
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23	12	13,14	21,27.2	6,8	8
	15,17					
2MPTLF-5872	PowerPlex® F6C					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23	12	13,14	21,27.2	6,8	8
	15,17					
2NZV8E-5872	PowerPlex® 21					
	11,11	20,23		15,15	13,13	18,19
	8,9	8,10		20,23	8,12	11,11
1	15,18	14,15.2	29,31		X,X	11,12
	19,23	12,12	13,14		6,8	8,8
	15,17					
2RG4VE-5872	GlobalFiler™					
	11,11	20,23	11,15	15,15	13,13	
	8,9	8,10	14,14	20,23	8,12	11,11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23			21,27.2	6,8	8,8
	15,17	NA			NA	
2U9YK9-5877	GlobalFiler™, NGM Detect, ForenSeq Signature Prep (Familias3)					
	11,11	20,23	11,15	15,15	13,13	
	8,9	8,10	14,14	20,23	8,12	11,11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23			21,27.2	6,8	8,8
	15,17					
42JZU2-5877	GlobalFiler™					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23			21,27.2	6,8	8
	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

46JBQ2-5877	GlobalFiler™ Express					
	11,11	20,23	11,15	15,15	13,13	
	8,9	8,10	14,14	20,23	8,12	11,11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23			21,27.2	6,8	8,8
	15,17					
4P3DJF-5872	GlobalFiler™					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23			21,27.2	6,8	8
	15,17					
4Z3433-5872	GlobalFiler™					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23			21,27.2	6,8	8
	15,17					
644C7C-5872	PowerPlex® 21					
	11,11	20,23		15,15	13,13	18,19
	8,9	8,10		20,23	8,12	11,11
1	15,18	14,15.2	29,31		X,X	11,12
	19,23	12,12	13,14		6,8	8,8
	15,17					
64KMMW-5872	GlobalFiler™ Express					
	11	20,23	11,15	15	13	-
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23	-	-	21,27.2	6,8	8
	15,17	NM	-	-	NM	
6HMU22-5872	PowerPlex® Fusion 5C (eDNA)					
	11,11	20,23	11,15	15,15	13,13	
	8,9	8,10	14,14	20,23	8,12	11,11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23	12,12	13,14		6,8	8,8
	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

6L3NFD-5872	GlobalFiler™					
	11,11	20,23	11,15	15,15	13,13	
	8,9	8,10	14,14	20,23	8,12	11,11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23			21,27.2	6,8	8,8
	15,17	NA			NA	
6PHW4D-5872	PowerPlex® Fusion 5C					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23	12	13,14		6,8	8
	15,17					
6XRN7F-5872	GlobalFiler™					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23			21,27.2	6,8	8
	15,17					
74Z4F4-5877	PowerPlex® 6C (Base de datos específica del laboratorio)					
	11,11	20,23	11,15	15,15	13,13	
	8,9	8,10	14,14	20,23	8,12	11,11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23	12,12	13,14	21,27.2	6,8	8,8
	15,17					
76YA9A-5877	GlobalFiler™					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23			21,27.2	6,8	8
	15,17	ND			ND	
7EX8JX-5872	GlobalFiler™ Express					
	11	20,23	11,15	15	13	-
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23	-	-	21,27.2	6,8	8
	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

7WXUBW-5872	GlobalFiler™ Express					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23			21,27.2	6,8	8
	15,17	NM			NM	
86M6XX-5877	PowerPlex® Fusion 6C					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23	12	13,14	21,27.2	6,8	8
	15,17	NR	NR	NR		
9P7TJ9-5872	GlobalFiler™					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23			21,27.2	6,8	8
	15,17					
9QLQB9-5872	PowerPlex® 21					
	11,11	20,23		15,15	13,13	18,19
	8,9	8,10		20,23	8,12	11,11
1	15,18	14,15.2	29,31		X,X	11,12
	19,23	12,12	13,14		6,8	8,8
	15,17					
A3ACU9-5872	GlobalFiler™					
	11,11	20,23	11,15	15,15	13,13	
	8,9	8,10	14,14	20,23	8,12	11,11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23			21,27.2	6,8	8,8
	15,17					
A8PKH9-5872	PowerPlex® Fusion 6C					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23	12	13,14	21,27.2	6,8	8
	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

A9ZPVW-5872	GlobalFiler™					
		11	20,23	11,15	15	13
		8,9	8,10	14	20,23	8,12
1		15,18	14,15.2	29,31	11,16	X,X
		19,23			21,27.2	6,8
		15,17				8
ADUJTX-5877	PowerPlex® Fusion 6C					
		11	20,23	11,15	15	13
		8,9	8,10	14	20,23	8,12
1		15,18	14,15.2	29,31	11,16	X
		19,23	12	13,14	21,27.2	6,8
		15,17				8
AJF6MC-5872	Identifiler®					
			20,23		15,15	13,13
		8,9	8,10			8,12
1		15,18	14,15.2	29,31		X,X
		19,23				6,8
		15,17				8,8
AKPLVA-5872	PowerPlex® Fusion 6C					
		11,11	20,23	11,15	15,15	13,13
		8,9	8,10	14,14	20,23	8,12
1		15,18	14,15.2	29,31	11,16	X,X
		19,23	12,12	13,14	21,27.2	6,8
		15,17				8,8
AMZMJT-5872	PowerPlex® 21, CS7, NGM SELECT					
		11	20,23	11,15	15	13
		8,9	8,10	14	20,23	8,12
1		15,18	14,15.2	29,31	11,16	X
		19,23	12	13,14	21,27.2	6,8
		15,17				8
AVBP6U-5872	PowerPlex® 21, ESX17					
		11	20,23	11,15	15	13
		8,9	8,10	14	20,23	8,12
1		15,18	14,15.2	29,31	11,16	X
		19,23	12	13,14	21,27.2	6,8
		15,17				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 1 - STR Results

B77HQQ-5872 GlobalFiler™ Express

	11	20,23	11,15	15	13	-
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23	-	-	21,27.2	6,8	8
	15,17	NM	-	-	NM	

CEWZ6Y-5872 VersaPlex 27PY System (GeneMapper ID x 1.6)

	11	20,23	11,15	15	13	18,19
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23	12	13,14		6,8	8
	15,17					

D2ADAQ-5872 GlobalFiler™ (Genemapper ID-x)

	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23			21,27.2	6,8	8
	15,17					

D7F4DW-5872 PowerPlex® Fusion 6C, GlobalFiler™, NGM SElect

	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23	12	13,14	21,27.2	6,8	8
	15,17					

DDYACP-5872 PowerPlex® Fusion

	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23	12	13,14		6,8	8
	15,17	Inconclusive				

DER389-5872 PowerPlex® Fusion

	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23	12	13,14		6,8	8
	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

E9MLBT-5872	GlobalFiler™					
	11,11	20,23	11,15	15,15	13,13	
	8,9	8,10	14,14	20,23	8,12	11,11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23			21,27.2	6,8	8,8
	15,17					
EDHDJP-5872	GlobalFiler™					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23			21,27.2	6,8	8
	15,17					
EHRITD-5872	PowerPlex® Fusion (Gene Analysen)					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31		X	11,12
	19,23	12	13,14		6,8	8
	15,17					
FBLJW6-5872	GlobalFiler™					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23			21,27.2	6,8	8
	15,17					
FF2RK6-5877	PowerPlex® Fusion 6C					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23	12	13,14	21,27.2	6,8	8
	15,17					
FFFDWR-5877	GlobalFiler™					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23			21,27.2	6,8	8
	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

FH8CBQ-5877		GlobalFiler™					
		11,11	20,23	11,15	15,15	13,13	
		8,9	8,10	14,14	20,23	8,12	11,11
1		15,18	14,15.2	29,31	11,16	X,X	11,12
		19,23			21,27.2	6,8	8,8
		15,17	F			F	
FP7YZ6-5877		GlobalFiler™					
		11,11	20,23	11,15	15,15	13,13	
		8,9	8,10	14,14	20,23	8,12	11,11
1		15,18	14,15.2	29,31	11,16	X,X	11,12
		19,23			21,27.2	6,8	8,8
		15,17	no results			no results	
FRCQF8-5872		Identifiler® Plus					
		-	20,23	-	15,15	13,13	-
		8,9	8,10	-	-	8,12	11,11
1		15,18	14,15.2	29,31	-	X,X	11,12
		19,23	-	-	-	6,8	8,8
		15,17	-	-	-	-	
GPZ4WP-5872		GlobalFiler™ Express					
		11	20,23	11,15	15	13	-
		8,9	8,10	14	20,23	8,12	11
1		15,18	14,15.2	29,31	11,16	X,X	11,12
		19,23	-	-	21,27.2	6,8	8
		15,17	NM	-	-	NM	
H742TT-5872		PowerPlex® Fusion					
		11	20,23	11,15	15	13	
		8,9	8,10	14	20,23	8,12	11
1		15,18	14,15.2	29,31	11,16	X	11,12
		19,23	12	13,14		6,8	8
		15,17	NR				
HBJ9GT-5872		Identifiler®					
			20,23		15,15	13,13	
		8,9	8,10			8,12	11,11
1		15,18	14,15.2	29,31		X,X	11,12
		19,23				6,8	8,8
		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

HEW9DJ-5872 Identifiler® DIRECT

		20,23		15,15	13,13	
	8,9	8,10			8,12	11,11
1	15,18	14,15.2	29,31		X,X	11,12
	19,23				6,8	8,8
	15,17					

HJNFVT-5877 GlobalFiler™

	11	20,23	11,15	15	13	18,9
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23	12	13,14	21,27.2	6,8	8
	15,17					

HMNRRT-5877 Ngm Select

	11,11	20,23	11,15	15,15		
		8,10	14,14	20,23		11,11
1	15,18	14,15.2	29,31	11,16	X,X	
	19,23			21,27.2	6,8	
	15,17					

HR4YFR-5872 PowerPlex® ESX17, PPHS16, HDplex (GeneMapper)

	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23	12	13,14	21,27.2	6,8	8
	15,17					

HWEA72-5872 PowerPlex® Fusion 6C

	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23	12	13,14	21,27.2	6,8	8
	15,17					

JPATAL-5877 GlobalFiler™ Express

	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23			21,27.2	6,8	8
	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

KPPCTX-5872	GlobalFiler™					
		11	20,23	11,15	15	13
		8,9	8,10	14	20,23	8,12
1		15,18	14,15.2	29,31	11,16	X
		19,23			21,27.2	6,8
		15,17				8
KRH9GR-5872	PowerPlex® Fusion					
		11	20,23	11,15	15	13
		8,9	8,10	14	20,23	8,12
1		15,18	14,15.2	29,31	11,16	X
		19,23	12	13,14		6,8
		15,17	NR			8
KU4AZK-5877	GlobalFiler™					
		11	20,23	11,15	15	13
		8,9	8,10	14	20,23	8,12
1		15,18	14,15.2	29,31	11,16	X
		19,23			21,27.2	6,8
		15,17				8
L84BDL-5877	GlobalFiler™					
		11,11	20,23	11,15	15,15	13,13
		8,9	8,10	14,14	20,23	8,12
1		15,18	14,15.2	29,31	11,16	X,X
		19,23			21,27.2	6,8
		15,17				8,8
LHMMNY-5872	PowerPlex® Fusion					
		11	20,23	11,15	15	13
		8,9	8,10	14	20,23	8,12
1		15,18	14,15.2	29,31	11,16	X
		19,23	12	13,14		6,8
		15,17				8
LKU6MU-5872	GlobalFiler™					
		11,11	20,23	11,15	15,15	13,13
		8,9	8,10	14,14	20,23	8,12
1		15,18	14,15.2	29,31	11,16	X,X
		19,23			21,27.2	6,8
		15,17				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 1 - STR Results

M8HUWJ-5872	GlobalFiler™					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23			21,27.2	6,8	8
	15,17					
MR8DNV-5872	GlobalFiler™					
	11,11	20,23	11,15	15,15	13,13	
	8,9	8,10	14,14	20,23	8,12	11,11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23			21,27.2	6,8	8,8
	15,17					
MW6WRF-5872	GlobalFiler™ Express					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23			21,27.2	6,8	8
	15,17	NM			NM	
MZZK9M-5877	PowerPlex® 5C					
	11	20,23	11,15	15	13	--
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23	12	13,14	--	6,8	8
	15,17	--	--	--	--	
NG4H6Q-5872	GlobalFiler™ Express					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23			21,27.2	6,8	8
	15,17					
NJVDUK-5877	GlobalFiler™					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23			21,27.2	6,8	8
	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

P2L9GR-5872	GlobalFiler™					
		11	20,23	11,15	15	13
		8,9	8,10	14	20,23	8,12
1		15,18	14,15.2	29,31	11,16	X
		19,23			21,27.2	6,8
		15,17				8
P4D67L-5872	PowerPlex® Fusion					
		11	20,23	11,15	15	13
		8,9	8,10	14	20,23	8,12
1		15,18	14,15.2	29,31	11,16	X
		19,23	12	13,14		6,8
		15,17	NR			8
PUMMRD-5877	GlobalFiler™, MiniFiler					
		11,11	20,23	11,15	15,15	13,13
		8,9	8,10	14,14	20,23	8,12
1		15,18	14,15.2	29,31	11,16	X,X
		19,23			21,27.2	6,8
		15,17	no result			8,8
						no result
QCZKC2-5872	GlobalFiler™					
		11,11	20,23	11,15	15,15	13,13
		8,9	8,10	14,14	20,23	8,12
1		15,18	14,15.2	29,31	11,16	X,X
		19,23			21,27.2	6,8
		15,17	NR			8,8
						NR
QFL86P-5872	GlobalFiler™					
		11,11	20,23	11,15	15,15	13,13
		8,9	8,10	14,14	20,23	8,12
1		15,18	14,15.2	29,31	11,16	X,X
		19,23			21,27.2	6,8
		15,17				8,8
QU4ZTV-5872	PowerPlex® Fusion 5C					
		11	20,23	11,15	15	13
		8,9	8,10	14	20,23	8,12
1		15,18	14,15.2	29,31	11,16	X
		19,23	12	13,14		6,8
		15,17				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 1 - STR Results

RABJ6T-5872	GlobalFiler™					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23			21,27.2	6,8	8
	15,17					
RMYJXF-5877	Verifiler Plus					
	11,11	20,23	11,15	15,15	13,13	18,19
	8,9	8,10	14,14	20,23	8,12	11,11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23	12,12	13,14	-	6,8	8,8
	15,17	-	-	-	-	-
RXP3PL-5872	VersaPlex_27PY					
	11	20,23	11,15	15	13	18,19
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23	12	13,14		6,8	8
	15,17					
TLX6NT-5872	PowerPlex® Fusion					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23	12	13,14		6,8	8
	15,17					
TQEDCR-5872	GlobalFiler™					
	11,11	20,23	11,15	15,15	13,13	
	8,9	8,10	14,14	20,23	8,12	11,11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23			21,27.2	6,8	8,8
	15,17	Not Detected			Not Detected	
U36LAL-5872	GlobalFiler™					
	11,11	20,23	11,15	15,15	13,13	
	8,9	8,10	14,14	20,23	8,12	11,11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23			21,27.2	6,8	8,8
	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

U4WHYE-5877	GlobalFiler™					
	11	20,23	11,15	15	13	Not Tested
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23	Not Tested	Not Tested	21,27.2	6,8	8
	15,17	No Results	Not Tested	Not Tested	No Results	
UDM33R-5872	PowerPlex® Fusion					
	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X	11,12
	19,23	12	13,14		6,8	8
	15,17					
UG29EM-5877	PowerPlex® FUSION 5C					
	11,11	20,23	11,15	15,15	13,13	
	8,9	8,10	14,14	20,23	8,12	11,11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23	12,12	13,14		6,8	8,8
	15,17	-				
UNMTLE-5877	GlobalFiler™					
	11,11	20,23	11,15	15,15	13,13	
	8,9	8,10	14,14	20,23	8,12	11,11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23			21,27.2	6,8	8,8
	15,17					
VG2ZAE-5872	GlobalFiler™ Express					
	11,11	20,23	11,15	15,15	13,13	
	8,9	8,10	14,14	20,23	8,12	11,11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23			21,27.2	6,8	8,8
	15,17					
VKJKUA-5877	GlobalFiler™ Express					
	11,11	20,23	11,15	15,15	13,13	
	8,9	8,10	14,14	20,23	8,12	11,11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23			21,27.2	6,8	8,8
	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

W2HW3B-5872 GlobalFiler™

	11,11	20,23	11,15	15,15	13,13	
	8,9	8,10	14,14	20,23	8,12	11,11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23			21,27.2	6,8	8,8
	15,17	0			0	

W4MPUN-5872 PowerPlex® Promega Fusion 5C

	11,11	20,23	11,15	15,15	13,13	
	8,9	8,10	14,14	20,23	8,12	11,11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23	12,12	13,14		6,8	8,8
	15,17	ND				

W8CR3W-5877 PowerPlex® Fusion 6C (GeneMapper ID-X 1.5)

	11	20,23	11,15	15	13	
	8,9	8,10	14	20,23	8,12	11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23	12	13,14	21,27.2	6,8	8
	15,17					

XT8VGA-5872 PowerPlex® Fusion 6C

	11,11	20,23	11,15	15,15	13,13	
	8,9	8,10	14,14	20,23	8,12	11,11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23	12,12	13,14	21,27.2	6,8	8,8
	15,17					

YDQJ3L-5877 GlobalFiler™

	11,11	20,23	11,15	15,15	13,13	
	8,9	8,10	14,14	20,23	8,12	11,11
1	15,18	14,15.2	29,31	11,16	X,X	11,12
	19,23			21,27.2	6,8	8,8
	15,17	No Results			No Results	

YNYU8H-5872 Investigator ESSplex SE QS Kit

	11,11	20,23	11,15	15,15		
		8,10	14,14	20,23		11,11
1	15,18	14,15.2	29,31	11,16	X,X	
	19,23			21,27.2	6,8	
	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

YUBA2K-5872	Investigator® 24plex					
		11	20,23	11,15	15	13
		8,9	8,10	14	20,23	8,12
1		15,18	14,15.2	29,31	11,16	X
		19,23			21,27.2	6,8
		15,17				8
ZVKEE9-5872	PowerPlex® Fusion 6c					
		11,11	20,23	11,15	15,15	13,13
		8,9	8,10	14,14	20,23	8,12
1		15,18	14,15.2	29,31	11,16	X,X
		19,23	12,12	13,14	21,27.2	6,8
		15,17				8,8

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

2GLPX3-5872	PowerPlex® 21, GlobalFiler™					
	11,12	20,25	11	15	12,13	11,19
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	10,12	8,13	15,21	8,9.3	8
	17	10	21	16	2	
2MPTLF-5872	PowerPlex® F6C					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	10,12	8,13	15,21	8,9.3	8
	17	10	21	16		
2NZV8E-5872	PowerPlex® 21					
	11,12	20,25		15,15	12,13	11,19
	7,8	8,12		17,23	12,13	11,11
2	14,18	14,15.2	31,31		X,Y	11,14
	19,23	10,12	8,13		8,9.3	8,8
	17,17					
2RG4VE-5872	GlobalFiler™					
	11,12	20,25	11,11	15,15	12,13	
	7,8	8,12	14,15	17,23	12,13	11,11
2	14,18	14,15.2	31,31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	8,8
	17,17	10			2	
2U9YK9-5877	GlobalFiler™, NGM Detect, ForenSeq Signature Prep (Familias3)					
	11,12	20,25	11,11	15,15	12,13	
	7,8	8,12	14,15	17,23	12,13	11,11
2	14,18	14,15.2	31,31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	8,8
	17,17	10			2	
42JZU2-5877	GlobalFiler™					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	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 2 - STR Results

46JBQ2-5877	GlobalFiler™ Express					
	11,12	20,25	11,11	15,15	12,13	
	7,8	8,12	14,15	17,23	12,13	11,11
2	14,18	14,15.2	31,31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	8,8
	17,17	10			2	
4P3DJF-5872	GlobalFiler™					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	8
	17	10			2	
4Z3433-5872	GlobalFiler™					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	8
	17	10			2	
644C7C-5872	PowerPlex® 21					
	11,12	20,25		15,15	12,13	11,19
	7,8	8,12		17,23	12,13	11,11
2	14,18	14,15.2	31,31		X,Y	11,14
	19,23	10,12	8,13		8,9.3	8,8
	17,17					
64KMMW-5872	GlobalFiler™ Express					
	11,12	20,25	11	15	12,13	-
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	-	-	15,21	8,9.3	8
	17	10	-	-	2	
6HMU22-5872	PowerPlex® Fusion 5C (eDNA)					
	11,12	20,25	11,11	15,15	12,13	
	7,8	8,12	14,15	17,23	12,13	11,11
2	14,18	14,15.2	31,31	12,16	X,Y	11,14
	19,23	10,12	8,13		8,9.3	8,8
	17,17	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 2 - STR Results

6L3NFD-5872	GlobalFiler™					
	11,12	20,25	11,11	15,15	12,13	
	7,8	8,12	14,15	17,23	12,13	11,11
2	14,18	14,15.2	31,31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	8,8
	17,17	10			2	
6PHW4D-5872	PowerPlex® Fusion 5C					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	10,12	8,13		8,9.3	8
	17	10				
6XRN7F-5872	GlobalFiler™					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	8
	17	10			2	
74Z4F4-5877	PowerPlex® 6C (Base de datos específica del laboratorio)					
	11,12	20,25	11,11	15,15	12,13	
	7,8	8,12	14,15	17,23	12,13	11,11
2	14,18	14,15.2	31,31	12,16	X,Y	11,14
	19,23	10,12	8,13	15,21	8,9.3	8,8
	17,17	10	21	16		
76YA9A-5877	GlobalFiler™					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	8
	17	10			2	
7EX8JX-5872	GlobalFiler™ Express					
	11,12	20,25	11	15	12,13	-
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	-	-	15,21	8,9.3	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 2 - STR Results

7WXUBW-5872	GlobalFiler™ Express					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	8
	17	10			2	
86M6XX-5877	PowerPlex® Fusion 6C					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	10,12	8,13	15,21	8,9.3	8
	17	10	21	16		
9P7TJ9-5872	GlobalFiler™					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	8
	17	10			2	
9QLQB9-5872	PowerPlex® 21					
	11,12	20,25		15,15	12,13	11,19
	7,8	8,12		17,23	12,13	11,11
2	14,18	14,15.2	31,31		X,Y	11,14
	19,23	10,12	8,13		8,9.3	8,8
	17,17					
A3ACU9-5872	GlobalFiler™					
	11,12	20,25	11,11	15,15	12,13	
	7,8	8,12	14,15	17,23	12,13	11,11
2	14,18	14,15.2	31,31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	8,8
	17,17	10			2	
A8PKH9-5872	PowerPlex® Fusion 6C					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	10,12	8,13	15,21	8,9.3	8
	17	10	21	16		

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

A9ZPVW-5872	GlobalFiler™					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	8
	17	10			2	
ADUJTX-5877	PowerPlex® Fusion 6C					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	10,12	8,13	15,21	8,9.3	8
	17	10	21	16		
AJF6MC-5872	Identifiler®					
		20,25		15,15	12,13	
	7,8	8,12			12,13	11,11
2	14,18	14,15.2	31,31		X,Y	11,14
	19,23				8,9.3	8,8
	17,17					
AKPLVA-5872	PowerPlex® Fusion 6C					
	11,12	20,25	11,11	15,15	12,13	
	7,8	8,12	14,15	17,23	12,13	11,11
2	14,18	14,15.2	31,31	12,16	X,Y	11,14
	19,23	10,12	8,13	15,21	8,9.3	8,8
	17,17	10	21	16		
AMZMJT-5872	PowerPlex® CS7, 21, NGM SELECT					
	11,12	20,25	11	15	12,13	11,19
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	10,12	8,13	15,21	8,9.3	8
	17	10	21	16		
AVBP6U-5872	PowerPlex® 21, ESX17					
	11,12	20,25	11	15	12,13	11,19
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	10,12	8,13	15,21	8,9.3	8
	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

B77HQQ-5872 GlobalFiler™ Express

	11,12	20,25	11	15	12,13	-
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	-	-	15,21	8,9,3	8
	17	10	-	-	2	

CEWZ6Y-5872 VersaPlex 27PY System (GeneMapper ID x 1.6)

	11,12	20,25	11	15	12,13	11,19
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	10,12	8,13		8,9,3	8
	17	10	21	16		

D2ADAQ-5872 GlobalFiler™ (Genemapper ID-x)

	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23			15,21	8,9,3	8
	17	10			2	

D7F4DW-5872 PowerPlex® Fusion 6C, GlobalFiler™, NGM SElect

	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	10,12	8,13	15,21	8,9,3	8
	17	10	21	16	2	

DDYACP-5872 PowerPlex® Fusion

	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	10,12	8,13		8,9,3	8
	17	Inconclusive				

DER389-5872 PowerPlex® Fusion

	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	10,12	8,13		8,9,3	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 2 - STR Results

E9MLBT-5872	GlobalFiler™					
	11,12	20,25	11,11	15,15	12,13	
	7,8	8,12	14,15	17,23	12,13	11,11
2	14,18	14,15.2	31,31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	8,8
	17,17	10,10			2,2	
EDHDJP-5872	GlobalFiler™					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	8
	17	10			2	
EHRTTD-5872	PowerPlex® Fusion (Gene Analysen)					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	10,12	8,13		8,9.3	8
	17	10				
FBLJW6-5872	GlobalFiler™					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	8
	17	10			2	
FF2RK6-5877	PowerPlex® Fusion 6C					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	10,12	8,13	15,21	8,9.3	8
	17	10	21	16		
FFFDWR-5877	GlobalFiler™					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	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 2 - STR Results

FH8CBQ-5877 GlobalFiler™						
	11,12	20,25	11,11	15,15	12,13	
	7,8	8,12	14,15	17,23	12,13	11,11
2	14,18	14,15.2	31,31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	8,8
	17,17	10			2	
FP7YZ6-5877 GlobalFiler™						
	11,12	20,25	11,11	15,15	12,13	
	7,8	8,12	14,15	17,23	12,13	11,11
2	14,18	14,15.2	31,31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	8,8
	17,17	10			2	
FRCQF8-5872 Identifiler® Plus						
	-	20,25	-	15,15	12,13	-
	7,8	8,12	-	-	12,13	11,11
2	14,18	14,15.2	31,31	-	X,Y	11,14
	19,23	-	-	-	8,9.3	8,8
	17,17	-	-	-	-	
GPZ4WP-5872 GlobalFiler™ Express						
	11,12	20,25	11	15	12,13	-
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	-	-	15,21	8,9.3	8
	17	10	-	-	2	
H742TT-5872 PowerPlex® Fusion						
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	10,12	8,13		8,9.3	8
	17	10				
HBJ9GT-5872 Identifiler®						
		20,25		15,15	12,13	
	7,8	8,12			12,13	11,11
2	14,18	14,15.2	31,31		X,Y	11,14
	19,23				8,9.3	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 2 - STR Results

HEW9DJ-5872	Identifiler® DIRECT					
		20,25		15,15	12,13	
	7,8	8,12			12,13	11,11
2	14,18	14,15.2	31,31		X,Y	11,14
	19,23				8,9.3	8,8
	17,17					
HJNFVT-5877	GlobalFiler™					
	11,12	20,25	11	15	12,13	11,19
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	10,12	8,13	15,21	8,9.3	8
	17	10			2	
HMNRRT-5877	Ngm Select					
	11,12	20,25	11,11	15,15		
		8,12	14,15	17,23		11,11
2	14,18	14,15.2	31,31	12,16	X,Y	
	19,23			15,21	8,9.3	
	17,17					
HR4YFR-5872	PowerPlex® ESX17, PPHS16, HdPlex (GenneMapper)					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	10,12	8,13	15,21	8,9.3	8
	17	10				
HWEA72-5872	PowerPlex® Fusion 6C					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	10,12	8,13	15,21	8,9.3	8
	17	10	21	16		
JPATAL-5877	GlobalFiler™ Express					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	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 2 - STR Results

KPPCTX-5872	GlobalFiler™					
		11,12	20,25	11	15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31	12,16	X,Y
		19,23			15,21	8,9,3
		17	10			2
KRH9GR-5872	PowerPlex® Fusion					
		11,12	20,25	11	15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31	12,16	X,Y
		19,23	10,12	8,13		8,9,3
		17	10			
KU4AZK-5877	GlobalFiler™					
		11,12	20,25	11	15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31	12,16	X,Y
		19,23			15,21	8,9,3
		17	10			2
L84BDL-5877	GlobalFiler™					
		11,12	20,25	11,11	15,15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31,31	12,16	X,Y
		19,23			15,21	8,9,3
		17,17	10			2
LHMMNY-5872	PowerPlex® Fusion					
		11,12	20,25	11	15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31	12,16	X,Y
		19,23	10,12	8,13		8,9,3
		17	10			
LKU6MU-5872	GlobalFiler™					
		11,12	20,25	11,11	15,15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31,31	12,16	X,Y
		19,23			15,21	8,9,3
		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 2 - STR Results

M8HUWJ-5872	GlobalFiler™					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23			15,21	8,9,3	8
	17	10			2	
MR8DNV-5872	GlobalFiler™					
	11,12	20,25	11,11	15,15	12,13	
	7,8	8,12	14,15	17,23	12,13	11,11
2	14,18	14,15.2	31,31	12,16	X,Y	11,14
	19,23			15,21	8,9,3	8,8
	17,17	10			2	
MW6WRF-5872	GlobalFiler™ Express					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23			15,21	8,9,3	8
	17	10			2	
MZZK9M-5877	PowerPlex® 5C					
	11,12	20,25	11	15	12,13	--
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	10,12	8,13	--	8,9,3	8
	17	10	--	--	--	
NG4H6Q-5872	GlobalFiler™ Express					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23			15,21	8,9,3	8
	17	10			2	
NJVDUK-5877	GlobalFiler™					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23			15,21	8,9,3	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 2 - STR Results

P2L9GR-5872	GlobalFiler™					
		11,12	20,25	11	15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31	12,16	X,Y
		19,23			15,21	8,9,3
		17	10			2
P4D67L-5872	PowerPlex® Fusion					
		11,12	20,25	11	15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31	12,16	X,Y
		19,23	10,12	8,13		8,9,3
		17	10			
PUMMRD-5877	GlobalFiler™, MiniFiler					
		11,12	20,25	11,11	15,15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31,31	12,16	X,Y
		19,23			15,21	8,9,3
		17,17	10			2
QCZKC2-5872	GlobalFiler™					
		11,12	20,25	11,11	15,15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31,31	12,16	X,Y
		19,23			15,21	8,9,3
		17,17	10			2
QFL86P-5872	GlobalFiler™					
		11,12	20,25	11,11	15,15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31,31	12,16	X,Y
		19,23			15,21	8,9,3
		17,17	10			2
QU4ZTV-5872	PowerPlex® Fusion 5C					
		11,12	20,25	11	15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31	12,16	X,Y
		19,23	10,12	8,13		8,9,3
		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 2 - STR Results

RABJ6T-5872	GlobalFiler™					
		11,12	20,25	11	15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31	12,16	X,Y
		19,23			15,21	8,9.3
		17	10			2
RMYJXF-5877	Verifiler Plus					
		11,12	20,25	11,11	15,15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31,31	12,16	X,Y
		19,23	10,12	8,13	-	8,9.3
		17,17	-	-	-	2
RXP3PL-5872	VersaPlex_27PY					
		11,12	20,25	11	15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31	12,16	X,Y
		19,23	10,12	8,13		8,9.3
		17	10	21	16	
TLX6NT-5872	PowerPlex® Fusion					
		11,12	20,25	11	15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31	12,16	X,Y
		19,23	10,12	8,13		8,9.3
		17	10			
TQEDCR-5872	GlobalFiler™					
		11,12	20,25	11,11	15,15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31,31	12,16	X,Y
		19,23			15,21	8,9.3
		17,17	10			2
U36LAL-5872	GlobalFiler™					
		11,12	20,25	11,11	15,15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31,31	12,16	X,Y
		19,23			15,21	8,9.3
		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 2 - STR Results

U4WHYE-5877	GlobalFiler™					
		11,12	20,25	11	15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31	12,16	X,Y
		19,23	Not Tested	Not Tested	15,21	8,9,3
		17	10	Not Tested	Not Tested	2
UDM33R-5872	PowerPlex® Fusion					
		11,12	20,25	11	15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31	12,16	X,Y
		19,23	10,12	8,13		8,9,3
		17	10			
UG29EM-5877	PowerPlex® FUSION 5C (GENOPROOF)					
		11,12	20,25	11,11	15,15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31,31	12,16	X,Y
		19,23	10,12	8,13		8,9,3
		17,17	10			
UNMTLE-5877	GlobalFiler™					
		11,12	20,25	11,11	15,15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31,31	12,16	X,Y
		19,23			15,21	8,9,3
		17,17	10			2
VG2ZAE-5872	GlobalFiler™ Express					
		11,12	20,25	11,11	15,15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31,31	12,16	X,Y
		19,23			15,21	8,9,3
		17,17	10			2
VKJKUA-5877	GlobalFiler™ Express					
		11,12	20,25	11,11	15,15	12,13
		7,8	8,12	14,15	17,23	12,13
2		14,18	14,15.2	31,31	12,16	X,Y
		19,23			15,21	8,9,3
		17,17	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 2 - STR Results

W2HW3B-5872 GlobalFiler™

	11,12	20,25	11,11	15,15	12,13	
	7,8	8,12	14,15	17,23	12,13	11,11
2	14,18	14,15.2	31,31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	8,8
	17,17	10			2	

W4MPUN-5872 PowerPlex® Promega Fusion 5C

	11,12	20,25	11,11	15,15	12,13	
	7,8	8,12	14,15	17,23	12,13	11,11
2	14,18	14,15.2	31,31	12,16	X,Y	11,14
	19,23	10,12	8,13		8,9.3	8,8
	17,17	10				

W8CR3W-5877 PowerPlex® Fusion 6C (GeneMapper ID-X 1.5)

	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23	10,12	8,13	15,21	8,9.3	8
	17	10	21	16		

XT8VGA-5872 PowerPlex® Fusion 6C

	11,12	20,25	11,11	15,15	12,13	
	7,8	8,12	14,15	17,23	12,13	11,11
2	14,18	14,15.2	31,31	12,16	X,Y	11,14
	19,23	10,12	8,13	15,21	8,9.3	8,8
	17,17	10	21	16		

YDQJ3L-5877 GlobalFiler™

	11,12	20,25	11,11	15,15	12,13	
	7,8	8,12	14,15	17,23	12,13	11,11
2	14,18	14,15.2	31,31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	8,8
	17,17	10			2	

YNYU8H-5872 Investigator ESSplex SE QS Kit

	11,12	20,25	11,11	15,15		
		8,12	14,15	17,23		11,11
2	14,18	14,15.2	31,31	12,16	X,Y	
	19,23			15,21	8,9.3	
	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 2 - STR Results

YUBA2K-5872	Investigator® 24plex					
	11,12	20,25	11	15	12,13	
	7,8	8,12	14,15	17,23	12,13	11
2	14,18	14,15.2	31	12,16	X,Y	11,14
	19,23			15,21	8,9.3	8
	17	10				
ZVKEE9-5872	PowerPlex® Fusion 6c					
	11,12	20,25	11,11	15,15	12,13	
	7,8	8,12	14,15	17,23	12,13	11,11
2	14,18	14,15.2	31,31	12,16	X,Y	11,14
	19,23	10,12	8,13	15,21	8,9.3	8,8
	17,17	10	21	16		

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

2GLPX3-5872	PowerPlex® 21, GlobalFiler™					
	16,3,17.3	20,24	12,14	14,17	11	12,14
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13	19,28.2	7	8,11
	15,17	11	17	18	2	
2MPTLF-5872	PowerPlex® F6C					
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13	19,28.2	7	8,11
	15,17	11	17	18		
2NZV8E-5872	PowerPlex® 21 (Kinship Paternity Trio)					
	16,3,17.3	20,24		14,17	11,11	12,14
	9,12	13,13		17,18	8,8	11,11
3	16,18	13,14	28,32.2		X,Y	10,11
	21,21	9,13	13,13		7,7	8,11
	15,17					
2RG4VE-5872	GlobalFiler™					
	16,3,17.3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21			19,28.2	7,7	8,11
	15,17	11			2	
2U9YK9-5877	GlobalFiler™, NGM Detect, ForenSeq Signature Prep (Familias3)					
	16,3,17.3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21			19,28.2	7,7	8,11
	15,17	11			2	
42JZU2-5877	GlobalFiler™					
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	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 3 - STR Results

46JBQ2-5877	GlobalFiler™ Express					
	16,3,17.3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21			19,28.2	7,7	8,11
	15,17	11			2	
4P3DJF-5872	GlobalFiler™					
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	11			2	
4Z3433-5872	GlobalFiler™					
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	11			2	
644C7C-5872	PowerPlex® 21 (Kinship (Paternity Trio Module))					
	16,3,17.3	20,24		14,17	11,11	12,14
	9,12	13,13		17,18	8,8	11,11
3	16,18	13,14	28,32.2		X,Y	10,11
	21,21	9,13	13,13		7,7	8,11
	15,17					
64KMMW-5872	GlobalFiler™ Express					
	16,3,17.3	20,24	12,14	14,17	11	-
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	-	-	19,28.2	7	8,11
	15,17	11	-	-	2	
6HMU22-5872	PowerPlex® Fusion 5C (eDNA)					
	16,3,17.3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21	9,13	13,13		7,7	8,11
	15,17	11				

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 3 - STR Results

6L3NFD-5872	GlobalFiler™					
	16,3,17.3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21			19,28.2	7,7	8,11
	15,17	11			2	
6PHW4D-5872	PowerPlex® Fusion 5C					
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13		7	8,11
	15,17	11				
6XRN7F-5872	GlobalFiler™					
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	11			2	
74Z4F4-5877	PowerPlex® 6C (Base de datos específica del laboratorio)					
	16,3,17.3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21	9,13	13,13	19,28.2	7,7	8,11
	15,17	11	17	18		
76YA9A-5877	GlobalFiler™					
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	11			2	
7EX8JX-5872	GlobalFiler™ Express					
	16,3,17.3	20,24	12,14	14,17	11	-
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	-	-	19,28.2	7	8,11
	15,17	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

7WXUBW-5872 GlobalFiler™ Express

	16,3,17,3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	11			2	

86M6XX-5877 PowerPlex® Fusion 6C

	16,3,17,3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13	19,28.2	7	8,11
	15,17	11	17	18		

9P7TJ9-5872 GlobalFiler™

	16,3,17,3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	11			2	

9QLQB9-5872 PowerPlex® 21

	16,3,17,3	20,24		14,17	11,11	12,14
	9,12	13,13		17,18	8,8	11,11
3	16,18	13,14	28,32.2		X,Y	10,11
	21,21	9,13	13,13		7,7	8,11
	15,17					

A3ACU9-5872 GlobalFiler™

	16,3,17,3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21			19,28.2	7,7	8,11
	15,17	11			2	

A8PKH9-5872 PowerPlex® Fusion 6C

	16,3,17,3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13	19,28.2	7	8,11
	15,17	11	17	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 3 - STR Results

A9ZPVW-5872 GlobalFiler™

	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	11			2	

ADUJTX-5877 PowerPlex® Fusion 6C (Familias 3.2.8)

	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13	19,28.2	7	8,11
	15,17	11	17	18		

AJF6MC-5872 Identifiler®

		20,24		14,17	11,11	
	9,12	13,13			8,8	11,11
3	16,18	13,14	28,32.2		X,Y	10,11
	21,21				7,7	8,11
	15,17					

AKPLVA-5872 PowerPlex® Fusion 6C

	16,3,17.3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21	9,13	13,13	19,28.2	7,7	8,11
	15,17	11	17	18		

AMZMJT-5872 PowerPlex® 21,CS7, NGM SELECT

	16,3,17.3	20,24	12,14	14,17	11	12,14
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13	19,28.2	7	8,11
	15,17	11	17	18		

AVBP6U-5872 PowerPlex® 21, ESX17

	16,3,17.3	20,24	12,14	14,17	11	12,14
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13	19,28.2	7	8,11
	15,17					

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 3 - STR Results

B77HQQ-5872 GlobalFiler™ Express

	16,3,17,3	20,24	12,14	14,17	11	-
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	-	-	19,28.2	7	8,11
	15,17	11	-	-	2	

CEWZ6Y-5872 VersaPlex 27PY System (GeneMapper ID x 1.6)

	16,3,17,3	20,24	12,14	14,17	11	12,14
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13		7	8,11
	15,17	11	17	18		

D2ADAQ-5872 GlobalFiler™ (Genemapper ID-x)

	16,3,17,3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	11			2	

D7F4DW-5872 PowerPlex® Fusion 6C, GlobalFiler™, NGM SElect

	16,3,17,3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13	19,28.2	7	8,11
	15,17	11	17	18	2	

DDYACP-5872 PowerPlex® Fusion

	16,3,17,3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13		7	8,11
	15,17	Inconclusive				

DER389-5872 PowerPlex® Fusion

	16,3,17,3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13		7	8,11
	15,17	11				

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 3 - STR Results

E9MLBT-5872	GlobalFiler™					
	16,3,17.3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21			19,28.2	7,7	8,11
	15,17	11,11			2,2	
EDHDJP-5872	GlobalFiler™					
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	11			2	
EHRITD-5872	PowerPlex® Fusion (Gene Analysen)					
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2		X,Y	10,11
	21	9,13	13		7	8,11
	15,17	11				
FBLJW6-5872	GlobalFiler™					
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	11			2	
FF2RK6-5877	PowerPlex® Fusion 6C					
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13	19,28.2	7	8,11
	15,17	11	17	18		
FFFDWR-5877	GlobalFiler™					
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	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 3 - STR Results

FH8CBQ-5877 GlobalFiler™						
	16,3,17,3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21			19,28.2	7,7	8,11
	15,17	11			2	
FP7YZ6-5877 GlobalFiler™						
	16,3,17,3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21			19,28.2	7,7	8,11
	15,17	11			2	
FRCQF8-5872 Identifiler® Plus						
	-	20,24	-	14,17	11,11	-
	9,12	13,13	-	-	8,8	11,11
3	16,18	13,14	28,32.2	-	X,Y	10,11
	21,21	-	-	-	7,7	8,11
	15,17	-	-	-	-	
GPZ4WP-5872 GlobalFiler™ Express						
	16,3,17,3	20,24	12,14	14,17	11	-
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	-	-	19,28.2	7	8,11
	15,17	11	-	-	2	
H742TT-5872 PowerPlex® Fusion						
	16,3,17,3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13		7	8,11
	15,17	11				
HBJ9GT-5872 Identifiler®						
		20,24		14,17	11,11	
	9,12	13,13			8,8	11,11
3	16,18	13,14	28,32.2		X,Y	10,11
	21,21				7,7	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 3 - STR Results

HEW9DJ-5872 Identifiler® DIRECT

		20,24		14,17	11,11	
	9,12	13,13			8,8	11,11
3	16,18	13,14	28,32.2		X,Y	10,11
	21,21				7,7	8,11
	15,17					

HJNFVT-5877 GlobalFiler™

	16.3,17.3	20,24	12,14	14,17	11	12,14
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13	19,28.2	7	8,11
	15,17	11			2	

HMNRRT-5877 Ngm Select

	16.3,17.3	20,24	12,14	14,17		
		13,13	13,13	17,18		11,11
3	16,18	13,14	28,32.2	16,17	X,Y	
	21,21			19,28.2	7,7	
	15,17					

HR4YFR-5872 PowerPlex® ESX17, PPHS16, HdPlex (GeneMapper)

	16.3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13	19,28.2	7	8,11
	15,17	11				

HWEA72-5872 PowerPlex® Fusion 6C

	16.3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13	19,28.2	7	8,11
	15,17	11	17	18		

JPATAL-5877 GlobalFiler™ Express

	16.3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	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

KPPCTX-5872	GlobalFiler™					
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	11			2	
KRH9GR-5872	PowerPlex® Fusion					
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13		7	8,11
	15,17	11				
KU4AZK-5877	GlobalFiler™					
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	11			2	
L84BDL-5877	GlobalFiler™					
	16,3,17.3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21			19,28.2	7,7	8,11
	15,17	11			2	
LHMMNY-5872	PowerPlex® Fusion					
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13		7	8,11
	15,17	11				
LKU6MU-5872	GlobalFiler™					
	16,3,17.3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21			19,28.2	7,7	8,11
	15,17	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 3 - STR Results

M8HUWJ-5872 GlobalFiler™						
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	11			2	
MR8DNV-5872 GlobalFiler™						
	16,3,17.3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21			19,28.2	7,7	8,11
	15,17	11			2	
MW6WRF-5872 GlobalFiler™ Express						
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	11			2	
MZZK9M-5877 PowerPlex® 5C						
	16,3,17.3	20,24	12,14	14,17	11	--
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13	--	7	8,11
	15,17	11	--	--	--	
NG4H6Q-5872 GlobalFiler™ Express (PopStats)						
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	11			2	
NJVDUK-5877 GlobalFiler™						
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	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 3 - STR Results

P2L9GR-5872	GlobalFiler™					
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	11			2	
P4D67L-5872	PowerPlex® Fusion					
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13		7	8,11
	15,17	11				
PUMMRD-5877	GlobalFiler™, MiniFiler					
	16,3,17.3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21			19,28.2	7,7	8,11
	15,17	11			2	
QCZKC2-5872	GlobalFiler™					
	16,3,17.3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21			19,28.2	7,7	8,11
	15,17	11			2	
QFL86P-5872	GlobalFiler™					
	16,3,17.3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21			19,28.2	7,7	8,11
	15,17	11			2	
QU4ZTV-5872	PowerPlex® Fusion 5C					
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13		7	8,11
	15,17	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

RABJ6T-5872	GlobalFiler™					
	16,3,17,3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	11			2	
RMYJXF-5877	Verifiler Plus					
	16,3,17,3	20,24	12,14	14,17	11,11	12,14
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21	9,13	13,13	-	7,7	8,11
	15,17	-	-	-	2	
RXP3PL-5872	VersaPlex_27PY (Familias / DNA View)					
	16,3,17,3	20,24	12,14	14,17	11	12,14
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13		7	8,11
	15,17	11	17	18		
TLX6NT-5872	PowerPlex® Fusion					
	16,3,17,3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13		7	8,11
	15,17	11				
TQEDCR-5872	GlobalFiler™					
	16,3,17,3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21			19,28.2	7,7	8,11
	15,17	11			2	
U36LAL-5872	GlobalFiler™					
	16,3,17,3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21			19,28.2	7,7	8,11
	15,17	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 3 - STR Results

U4WHYE-5877 GlobalFiler™						
	16,3,17.3	20,24	12,14	14,17	11	Not Tested
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	Not Tested	Not Tested	19,28.2	7	8,11
	15,17	11	Not Tested	Not Tested	2	
UDM33R-5872 PowerPlex® Fusion						
	16,3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13		7	8,11
	15,17	11				
UG29EM-5877 PowerPlex® FUSION 5C						
	16,3,17.3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21	9,13	13,13		7,7	8,11
	15,17	11				
UNMTLE-5877 GlobalFiler™						
	16,3,17.3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21			19,28.2	7,7	8,11
	15,17	11			2	
VG2ZAE-5872 GlobalFiler™ Express						
	16,3,17.3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21			19,28.2	7,7	8,11
	15,17	11			2	
VKJKUA-5877 GlobalFiler™ Express						
	16,3,17.3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21			19,28.2	7,7	8,11
	15,17	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 3 - STR Results

W2HW3B-5872 GlobalFiler™

	16,3,17,3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21			19,28.2	7,7	8,11
	15,17	11			2	

W4MPUN-5872 PowerPlex® Promega Fusion 5C

	16,3,17,3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21	9,13	13,13		7,7	8,11
	15,17	11				

W8CR3W-5877 PowerPlex® Fusion 6C (GeneMapper ID-X 1.5)

	16,3,17,3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21	9,13	13	19,28.2	7	8,11
	15,17	11	17	18		

XT8VGA-5872 PowerPlex® Fusion 6C

	16,3,17,3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21	9,13	13,13	19,28.2	7,7	8,11
	15,17	11	17	18		

YDQJ3L-5877 GlobalFiler™

	16,3,17,3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21			19,28.2	7,7	8,11
	15,17	11			2	

YNYU8H-5872 Investigator ESSplex SE QS Kit

	16,3,17,3	20,24	12,14	14,17		
		13,13	13,13	17,18		11,11
3	16,18	13,14	28,32.2	16,17	X,Y	
	21,21			19,28.2	7,7	
	15,17					

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 3 - STR Results

YUBA2K-5872	Investigator® 24plex					
	16.3,17.3	20,24	12,14	14,17	11	
	9,12	13	13	17,18	8	11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21			19,28.2	7	8,11
	15,17	11				
ZVKEE9-5872	PowerPlex® Fusion 6c					
	16.3,17.3	20,24	12,14	14,17	11,11	
	9,12	13,13	13,13	17,18	8,8	11,11
3	16,18	13,14	28,32.2	16,17	X,Y	10,11
	21,21	9,13	13,13	19,28.2	7,7	8,11
	15,17	11	17	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

2GLPX3-5872	PowerPlex® 21, GlobalFiler™					
	12,13	17,25	10,11	15,16	12	11,20
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10	8,17	15,17	9.3	8
	17,19	10	21	16	2	
2MPTLF-5872	PowerPlex® F6C					
	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10	8,17	15,17	9.3	8
	17,19	10	21	16		
2NZV8E-5872	PowerPlex® 21 (Kinship Paternity Trio)					
	12,13	17,25		15,16	12,12	11,20
	7,9	12,13		17,19.3	8,13	11,11
4	14,19	13,14	30,31		X,Y	12,14
	23,24	10,10	8,17		9.3,9.3	8,8
	17,19					
2RG4VE-5872	GlobalFiler™					
	12,13	17,25	10,11	15,16	12,12	
	7,9	12,13	13,15	17,19.3	8,13	11,11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3,9.3	8,8
	17,19	10			2	
2U9YK9-5877	GlobalFiler™, NGM Detect, ForenSeq Signature Prep (Familias3)					
	12,13	17,25	10,11	15,16	12,12	
	7,9	12,13	13,15	17,19.3	8,13	11,11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3,9.3	8,8
	17,19	10			2	
42JZU2-5877	GlobalFiler™					
	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3	8
	17,19	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

46JBQ2-5877	GlobalFiler™ Express					
	12,13	17,25	10,11	15,16	12,12	
	7,9	12,13	13,15	17,19.3	8,13	11,11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3,9.3	8,8
	17,19	10			2	
4P3DJF-5872	GlobalFiler™					
	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3	8
	17,19	10			2	
4Z3433-5872	GlobalFiler™					
	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3	8
	17,19	10			2	
644C7C-5872	PowerPlex® 21 (Kinship (Paternity Trio Module))					
	12,13	17,25		15,16	12,12	11,20
	7,9	12,13		17,19.3	8,13	11,11
4	14,19	13,14	30,31		X,Y	12,14
	23,24	10,10	8,17		9.3,9.3	8,8
	17,19					
64KMMW-5872	GlobalFiler™ Express					
	12,13	17,25	10,11	15,16	12	-
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	-	-	15,17	9.3	8
	17,19	10	-	-	2	
6HMU22-5872	PowerPlex® Fusion 5C (eDNA)					
	12,13	17,25	10,11	15,16	12,12	
	7,9	12,13	13,15	17,19.3	8,13	11,11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10,10	8,17		9.3,9.3	8,8
	17,19	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

6L3NFD-5872	GlobalFiler™					
		12,13	17,25	10,11	15,16	12,12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24			15,17	9.3,9.3
		17,19	10			2
6PHW4D-5872	PowerPlex® Fusion 5C					
		12,13	17,25	10,11	15,16	12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24	10	8,17		9.3
		17,19	10			
6XRN7F-5872	GlobalFiler™					
		12,13	17,25	10,11	15,16	12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24			15,17	9.3
		17,19	10			2
74Z4F4-5877	PowerPlex® 6C (Base de datos específica del laboratorio)					
		12,13	17,25	10,11	15,16	12,12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24	10,10	8,17	15,17	9.3,9.3
		17,19	10	21	16	
76YA9A-5877	GlobalFiler™					
		12,13	17,25	10,11	15,16	12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24			15,17	9.3
		17,19	10			2
7EX8JX-5872	GlobalFiler™ Express					
		12,13	17,25	10,11	15,16	12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24	-	-	15,17	9.3
		17,19	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

7WXUBW-5872 GlobalFiler™ Express

	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3	8
	17,19	10			2	

86M6XX-5877 PowerPlex® Fusion 6C

	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10	8,17	15,17	9.3	8
	17,19	10	21	16		

9P7TJ9-5872 GlobalFiler™

	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3	8
	17,19	10			2	

9QLQB9-5872 PowerPlex® 21

	12,13	17,25		15,16	12,12	11,20
	7,9	12,13		17,19.3	8,13	11,11
4	14,19	13,14	30,31		X,Y	12,14
	23,24	10,10	8,17		9.3,9.3	8,8
	17,19					

A3ACU9-5872 GlobalFiler™

	12,13	17,25	10,11	15,16	12,12	
	7,9	12,13	13,15	17,19.3	8,13	11,11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3,9.3	8,8
	17,19	10			2	

A8PKH9-5872 PowerPlex® Fusion 6C

	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10	8,17	15,17	9.3	8
	17,19	10	21	16		

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

A9ZPVW-5872	GlobalFiler™					
	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3	8
	17,19	10			2	
ADUJTX-5877	PowerPlex® Fusion 6C (Familias 3.2.8)					
	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10	8,17	15,17	9.3	8
	17,19	10	21	16		
AJF6MC-5872	Identifiler®					
		17,25		15,16	12,12	
	7,9	12,13			8,13	11,11
4	14,19	13,14	30,31		X,Y	12,14
	23,24				9.3,9.3	8,8
	17,19					
AKPLVA-5872	PowerPlex® Fusion 6C					
	12,13	17,25	10,11	15,16	12,12	
	7,9	12,13	13,15	17,19.3	8,13	11,11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10,10	8,17	15,17	9.3,9.3	8,8
	17,19	10	21	16		
AMZMJT-5872	PowerPlex® 21,CS7, NGM SELECT					
	12,13	17,25	10,11	15,16	12	11,20
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10	8,17	15,17	9.3	8
	17,19	10	21	16		
AVBP6U-5872	PowerPlex® 21, ESX17 (Familias version 3.3.1)					
	12,13	17,25	10,11	15,16	12	11,20
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10	8,17	15,17	9.3	8
	17,19					

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

B77HQQ-5872 GlobalFiler™ Express

	12,13	17,25	10,11	15,16	12	-
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	-	-	15,17	9.3	8
	17,19	10	-	-	2	

CEWZ6Y-5872 VersaPlex 27PY System (GeneMapper ID x 1.6)

	12,13	17,25	10,11	15,16	12	11,20
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10	8,17		9.3	8
	17,19	10	21	16		

D2ADAQ-5872 GlobalFiler™ (Genemapper ID-x)

	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3	8
	17,19	10			2	

D7F4DW-5872 PowerPlex® Fusion 6C, GlobalFiler™, NGM SElect

	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10	8,17	15,17	9.3	8
	17,19	10	21	16	2	

DDYACP-5872 PowerPlex® Fusion

	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10	8,17		9.3	8
	17,19	Inconclusive				

DER389-5872 PowerPlex® Fusion

	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10	8,17		9.3	8
	17,19	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

E9MLBT-5872	GlobalFiler™					
		12,13	17,25	10,11	15,16	12,12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24			15,17	9.3,9.3
		17,19	10,10			2,2
EDHDJP-5872	GlobalFiler™					
		12,13	17,25	10,11	15,16	12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24			15,17	9.3
		17,19	10			2
EHRITD-5872	PowerPlex® Fusion (Gene Analysen)					
		12,13	17,25	10,11	15,16	12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24	10	8,17		9.3
		17,19	10			8
FBLJW6-5872	GlobalFiler™					
		12,13	17,25	10,11	15,16	12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24			15,17	9.3
		17,19	10			2
FF2RK6-5877	PowerPlex® Fusion 6C					
		12,13	17,25	10,11	15,16	12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24	10	8,17	15,17	9.3
		17,19	10	21	16	8
FFFDWR-5877	GlobalFiler™					
		12,13	17,25	10,11	15,16	12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24			15,17	9.3
		17,19	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

FH8CBQ-5877 GlobalFiler™						
	12,13	17,25	10,11	15,16	12,12	
	7,9	12,13	13,15	17,19.3	8,13	11,11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3,9.3	8,8
	17,19	10			2	
FP7YZ6-5877 GlobalFiler™						
	12,13	17,25	10,11	15,16	12,12	
	7,9	12,13	13,15	17,19.3	8,13	11,11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3,9.3	8,8
	17,19	10			2	
FRCQF8-5872 Identifiler® Plus						
	-	17,25	-	15,16	12,12	-
	7,9	12,13	-	-	8,13	11,11
4	14,19	13,14	30,31	-	X,Y	12,14
	23,24	-	-	-	9.3,9.3	8,8
	17,19	-	-	-	-	
GPZ4WP-5872 GlobalFiler™ Express						
	12,13	17,25	10,11	15,16	12	-
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	-	-	15,17	9.3	8
	17,19	10	-	-	2	
H742TT-5872 PowerPlex® Fusion						
	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10	8,17		9.3	8
	17,19	10				
HBJ9GT-5872 Identifiler®						
		17,25		15,16	12,12	
	7,9	12,13			8,13	11,11
4	14,19	13,14	30,31		X,Y	12,14
	23,24				9.3,9.3	8,8
	17,19					

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

HEW9DJ-5872 Identifiler® DIRECT

		17,25		15,16	12,12	
	7,9	12,13			8,13	11,11
4	14,19	13,14	30,31		X,Y	12,14
	23,24				9.3,9.3	8,8
	17,19					

HJNFVT-5877 GlobalFiler™

	12,13	17,25	10,11	15,16	12	11,20
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10	8,17	15,17	9.3	8
	17,19	10			2	

HMNRRT-5877 Ngm Select

	12,13	17,25	10,11	15,16		
		12,13	13,15	17,19.3		11,11
4	14,19	13,14	30,31	12,16	X,Y	
	23,24			15,17	9.3,9.3	
	17,19					

HR4YFR-5872 PowerPlex® ESX17, PPHS16, HdPlex (GeneMapper)

	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10	8,17	15,17	9.3	8
	17,19	10				

HWEA72-5872 PowerPlex® Fusion 6C

	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10	8,17	15,17	9.3	8
	17,19	10	21	16		

JPATAL-5877 GlobalFiler™ Express

	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3	8
	17,19	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

KPPCTX-5872	GlobalFiler™					
		12,13	17,25	10,11	15,16	12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24			15,17	9.3
		17,19	10			2
KRH9GR-5872	PowerPlex® Fusion					
		12,13	17,25	10,11	15,16	12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24	10	8,17		9.3
		17,19	10			
KU4AZK-5877	GlobalFiler™					
		12,13	17,25	10,11	15,16	12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24			15,17	9.3
		17,19	10			2
L84BDL-5877	GlobalFiler™					
		12,13	17,25	10,11	15,16	12,12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24			15,17	9.3,9.3
		17,19	10			2
LHMMNY-5872	PowerPlex® Fusion					
		12,13	17,25	10,11	15,16	12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24	10	8,17		9.3
		17,19	10			
LKU6MU-5872	GlobalFiler™					
		12,13	17,25	10,11	15,16	12,12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24			15,17	9.3,9.3
		17,19	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

M8HUWJ-5872	GlobalFiler™					
	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3	8
	17,19	10			2	
MR8DNV-5872	GlobalFiler™					
	12,13	17,25	10,11	15,16	12,12	
	7,9	12,13	13,15	17,19.3	8,13	11,11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3,9.3	8,8
	17,19	10			2	
MW6WRF-5872	GlobalFiler™ Express					
	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3	8
	17,19	10			2	
MZZK9M-5877	PowerPlex® 5C					
	12,13	17,25	10,11	15,16	12	--
	7,9	12,13	13,15	17,9.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10	8,17	--	9.3	8
	17,19	10	--	--	--	
NG4H6Q-5872	GlobalFiler™ Express (PopStats)					
	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3	8
	17,19	10			2	
NJVDUK-5877	GlobalFiler™					
	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3	8
	17,19	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

P2L9GR-5872	GlobalFiler™					
		12,13	17,25	10,11	15,16	12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24			15,17	9.3
		17,19	10			2
P4D67L-5872	PowerPlex® Fusion					
		12,13	17,25	10,11	15,16	12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24	10	8,17		9.3
		17,19	10			
PUMMRD-5877	GlobalFiler™, MiniFiler					
		12,13	17,25	10,11	15,16	12,12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24			15,17	9.3,9.3
		17,19	10			2
QCZKC2-5872	GlobalFiler™					
		12,13	17,25	10,11	15,16	12,12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24			15,17	9.3,9.3
		17,19	10			2
QFL86P-5872	GlobalFiler™					
		12,13	17,25	10,11	15,16	12,12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24			15,17	9.3,9.3
		17,19	10			2
QU4ZTV-5872	PowerPlex® Fusion 5C					
		12,13	17,25	10,11	15,16	12
		7,9	12,13	13,15	17,19.3	8,13
4		14,19	13,14	30,31	12,16	X,Y
		23,24	10	8,17		9.3
		17,19	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

RABJ6T-5872	GlobalFiler™					
	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3	8
	17,19	10			2	
RMYJXF-5877	Verifiler Plus					
	12,13	17,25	10,11	15,16	12,12	11,20
	7,9	12,13	13,15	17,19.3	8,13	11,11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10,10	8,17	-	9.3,9.3	8,8
	17,19	-	-	-	2	
RXP3PL-5872	VersaPlex_27PY (Familias / DNA View)					
	12,13	17,25	10,11	15,16	12	11,20
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10	8,17		9.3	8
	17,19	10	21	16		
TLX6NT-5872	PowerPlex® Fusion					
	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10	8,17		9.3	8
	17,19	10				
TQEDCR-5872	GlobalFiler™					
	12,13	17,25	10,11	15,16	12,12	
	7,9	12,13	13,15	17,19.3	8,13	11,11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3,9.3	8,8
	17,19	10			2	
U36LAL-5872	GlobalFiler™					
	12,13	17,25	10,11	15,16	12,12	
	7,9	12,13	13,15	17,19.3	8,13	11,11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3,9.3	8,8
	17,19	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

U4WHYE-5877	GlobalFiler™					
	12,13	17,25	10,11	15,16	12	Not Tested
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	Not Tested	Not Tested	15,17	9.3	8
	17,19	10	Not Tested	Not Tested	2	
UDM33R-5872	PowerPlex® Fusion					
	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10	8,17		9.3	8
	17,19	10				
UG29EM-5877	PowerPlex® FUSION 5C					
	12,13	17,25	10,11	15,16	12,12	
	7,9	12,13	13,15	17,19.3	8,13	11,11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10,10	8,17		9.3,9.3	8,8
	17,19	10				
UNMTLE-5877	GlobalFiler™					
	12,13	17,25	10,11	15,16	12,12	
	7,9	12,13	13,15	17,19.3	8,13	11,11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3,9.3	8,8
	17,19	10			2	
VG2ZAE-5872	GlobalFiler™ Express					
	12,13	17,25	10,11	15,16	12,12	
	7,9	12,13	13,15	17,19.3	8,13	11,11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3,9.3	8,8
	17,19	10			2	
VKJKUA-5877	GlobalFiler™ Express					
	12,13	17,25	10,11	15,16	12,12	
	7,9	12,13	13,15	17,19.3	8,13	11,11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3,9.3	8,8
	17,19	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

W2HW3B-5872 GlobalFiler™

	12,13	17,25	10,11	15,16	12,12	
	7,9	12,13	13,15	17,19.3	8,13	11,11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3,9.3	8,8
	17,19	10			2	

W4MPUN-5872 PowerPlex® Promega Fusion 5C

	12,13	17,25	10,11	15,16	12,12	
	7,9	12,13	13,15	17,19.3	8,13	11,11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10,10	8,17		9.3,9.3	8,8
	17,19	10				

W8CR3W-5877 PowerPlex® Fusion 6C (GeneMapper ID-X 1.5)

	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10	8,17	15,17	9.3	8
	17,19	10	21	16		

XT8VGA-5872 PowerPlex® Fusion 6C

	12,13	17,25	10,11	15,16	12,12	
	7,9	12,13	13,15	17,19.3	8,13	11,11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10,10	8,17	15,17	9.3,9.3	8,8
	17,19	10	21	16		

YDQJ3L-5877 GlobalFiler™

	12,13	17,25	10,11	15,16	12,12	
	7,9	12,13	13,15	17,19.3	8,13	11,11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3,9.3	8,8
	17,19	10			2	

YNYU8H-5872 Investigator ESSplex SE QS Kit

	12,13	17,25	10,11	15,16		
		12,13	13,15	17,19.3		11,11
4	14,19	13,14	30,31	12,16	X,Y	
	23,24			15,17	9.3,9.3	
	17,19					

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

YUBA2K-5872	Investigator® 24plex					
	12,13	17,25	10,11	15,16	12	
	7,9	12,13	13,15	17,19.3	8,13	11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24			15,17	9.3	8
	17,19	10				
ZVKEE9-5872	PowerPlex® Fusion 6c					
	12,13	17,25	10,11	15,16	12,12	
	7,9	12,13	13,15	17,19.3	8,13	11,11
4	14,19	13,14	30,31	12,16	X,Y	12,14
	23,24	10,10	8,17	15,17	9.3,9.3	8,8
	17,19	10	21	16		

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

2NZV8E-5872 NIST-STRBASE						
	0.0000	0.0000		0.0000	0.0000	0.0000
	0.0000	0.0000		3.9246	0.0000	3.1807
3PI	0.0000	1.2579	0.0000			0.0000
	0.0000	0.0000	0.0000		0.0000	0.9526
	1.7612					
2RG4VE-5872 FBI PopStats, NIST Population						
	NA	NA	NA	NA	NA	
	NA	NA	NA	3.92	NA	3.18
3PI	NA	1.25	NA	NA		NA
	NA			NA	NA	0.95
	NA					
2U9YK9-5877 local/state database						
	1,24e-007	1,37e-003	1,25e-003	1,33e-003	8,26e-004	
	1,95e-003	1,66e-003	7,08e-004	4,34	7,67e-007	3,12
3PI	7,08e-004	1,15	5,62e-005	4,13e-002		5,11e-004
	3,75e-004			2,54e-005	1,35e-006	0,81
	1,83					
42JZU2-5877 FBI PopStats						
				3.9246		3.1807
3PI		1.2579				
						0.95256
	1.7612					
4P3DJF-5872 NIST 2017						
				3.92		3.18
3PI		1.25				
						0.95
4Z3433-5872 NIST-STRBASE						
	0.0000	0.0000	0.0000	0.0000	0.0000	
	0.0000	0.0000	0.0000	3.9246	0.0000	3.1807
3PI	0.0000	1.2579	0.0000	0.0000		0.0000
	0.0000			0.0000	0.0000	0.9526
	1.7612					
644C7C-5872 NIST-STRBASE						
	0	0		0	0	0
	0	0		3.9246	0	3.1807
3PI	0	1.2579	0			0
	0	0	0		0	0.9526
	1.7612					

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

64KMMW-5872	NIST-STRBASE					
	0.0028	0.0010	0.0028	0.0020	0.0010	-
	0.0020	0.0040	0.0028	3.9246	0.0020	3.1806
3PI	0.0030	1.2578	0.0010	0.0028		0.0030
	0.0041	-	-	0.0064	0.00001	0.9525
	1.7611					
6HMU22-5872	FBI PopStats					
	0.0000	0.0000	0.0000	0.0000	0.0000	
	0.0000	0.0000	0.0000	3.9246	0.0000	3.6550
3PI	0.0000	1.3820	0.0000	0.0000		0.0000
	0.000	0.0000	0.0000		0.0000	0.9141
	1.9026					
6L3NFD-5872	FBI PopStats, NIST Population					
	NA	NA	NA	NA	NA	
	NA	NA	NA	3.92	NA	3.18
3PI	NA	1.25	NA	NA		NA
	NA			NA	NA	0.95
	NA					
74Z4F4-5877	Base de datos especifica del laboratorio					
	0	0.001	0	0	0	
	0	0	0	7.32	0	4.63
3PI	0.003	1.32	0	0		0.002
	0	0	0.001	0	0	0.86
	1.62					
7EX8JX-5872	NIST-STRBASE					
	0.0028	0.0012	0.0028	0.0020	0.0016	-
	0.0016	0.0028	0.0028	3.9246	0.0019	3.1806
3PI	0.0036	1.2578	0.0022	0.0028		0.0022
	0.0048	-	-	0.0064	0.0007	0.9525
	1.7611					
7WXUBW-5872	NIST-STRBASE					
	0.0028	0.0010	0.0028	0.0020	0.0010	
	0.0020	0.0040	0.0028	3.9246	0.0020	3.1806
3PI	0.0030	1.2578	0.0010	0.0028		0.0030
	0.0041			0.0064	0.00001	0.9525
	1.7611					
86M6XX-5877	Laboratory Specific Database					
	0.000	0.000	0.000	0.000	0.000	
	0.000	0.000	0.000	4.808	0.000	3.672
3PI	0.000	1.338	0.000	0.000		0.000
	0.000	0.000	0.000	0.000	0.000	0.914
	1.871					

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

9QLQB9-5872	NIST-STRBASE					
	0	0		0	0	0
	0	0		4.016	0	3.430
3PI	0	1.385	0			0
	0	0	0		0	1.073
	1.908					
A3ACU9-5872	FBI PopStats, NIST POPULATION					
	N/A	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	3.92	N/A	3.18
3PI	N/A	1.25	N/A	N/A		N/A
	N/A			N/A	N/A	.95
	N/A					
A9ZPVW-5872	NIST-STRBASE					
	0.0000	0.0000	0.0000	0.0000	0.0000	
	0.0000	0.0000	0.0000	3.9246	0.0000	3.1807
3PI	0.0000	1.2579	0.0000	0.0000		0.0000
	0.0000			0.0000	0.0000	0.9526
	1.7612					
ADUJTX-5877	NIST-STRBASE					
	3.27e-003	2.59e-003	4.17e-004	1.49e-003	1.06e-003	
	6.08e-003	7.40e-003	1.07e-003	12.09	1.14e-003	7.84
3PI	2.86e-003	7.84	4.00e-003	8.70e-003		1.45e-002
	4.21e-003	1.38e-003	1.69e-002	4.35e-003	1.05e-003	1.68
	2.78					
AJF6MC-5872	NSDS(local/state database)					
		0		0	0	
	0	0			0	2.93
3PI	0	1.47	0			0
	0				0	0.97
	2.07					
B77HQQ-5872	NIST-STRBASE					
	0.0028	0.0010	0.0028	0.0020	0.0010	-
	0.0020	0.0040	0.0028	3.9246	0.0020	3.1806
3PI	0.0030	1.2578	0.0010	0.0028		0.0030
	0.0041	-	-	0.0064	0.00001	0.9525
	1.7611					
D7F4DW-5872	Local Database					
				4.86		3.47
3PI		1.23				
						0.91
	1.69					

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

DDYACP-5872	FBI PopStats, laboratory specific database					
		0.00100		0.00200	0.00100	
	0.00200	0.00400			0.00200	3.65
3PI	0.00300	1.36	0.00100			0.00300
	0.00598	0.00100	0.00100		0.00100	0.917
	1.89					
EHRTD-5872	NIST-STRBASE					
	0.00	0.24	0.10	0.13	0.42	
	0.02	0.48	0.04	3.92	0.00	3.18
3PI	0.07	1.26	0.00			0.04
	0.16	0.10	0.00		0.00	0.95
	1.76					
FH8CBQ-5877	laboratory specific database					
	0.0	0.0	0.0	0.0	0.0	
	0.0	0.0	0.0	3.77	0.0	2.56
3PI	0.0	1.18	0.0	0.0		0.0
	0.0			0.0	0.0	0.89
	1.72					
FP7YZ6-5877	NIST-STRBASE					
	0.000	0.000	0.000	0.000	0.000	
	0.000	0.000	0.000	omitted	0.000	2.93
3PI	0.000	1.22	0.000	0.000		0.000
	0.000			0.000	0.000	0.938
	1.71					
FRCQF8-5872	Local Government Database					
	-	0	-	0	0	-
	0	0	-	-	0	2.93
3PI	0	1.47	0	-		0
	0	-	-	-	0	0.97
	2.07					
GPZ4WP-5872	NIST-STRBASE					
	0.0028	0.001	0.0028	0.0020	0.0010	-
	0.0020	0.004	0.0028	3.9246	0.0020	3.1807
3PI	0.0030	1.2579	0.0010	0.0028		0.003
	0.0041	-	-	0.0064	0.00001	0.9526
	1.7612					
HBJ9GT-5872	NIST-STRBASE					
						3.18
3PI		1.25				
						0.95
	1.76					

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

HEW9DJ-5872	ABI ID Direct PCR Amp. Kit manual					
	0.00			0.00	0.00	
	0.00	0.00			0.00	3.13
3PI	0.00	1.36	0.00			0.00
	0.00				0.00	0.94
	2.04					
HJNFVT-5877	NIST-STRBASE					
	0	0	0	0	0	0
	0	0	0	3.9246	0	3.1807
3PI	0	1.2579	0	0		0
	0	0	0	0	0	0.9526
	1.7612					
HR4YFR-5872	NIST-STRBASE, for HdPlex - local database					
	0.000000	0.002000	0.000000	0.000788	0.000593	
	0.002727	0.002076	0.000000	3.924647	0.000000	3.180662
3PI	0.000205	1.270003	0.000505	0.000000		0.000139
	0.000701	0.003152	0.000007	0.000049	0.000000	0.952562
	1.761184					
KU4AZK-5877	Life Technologies					
		0		0	0	
	0	0			0	3.13
3PI	0	1.36	0			0
	0				0	0.94
	2.04					
M8HUWJ-5872	NIST-STRBASE					
	0.0000	0.0000	0.0000	0.0000	0.0000	
	0.0000	0.0000	0.0000	3.9246	0.0000	3.1807
3PI	0.0000	1.2579	0.0000	0.0000		0.0000
	0.0000			0.0000	0.0000	0.9526
	1.7612					
MR8DNV-5872	FBI PopStats, NIST POPULATION					
	N/A	N/A	N/A	N/A	N/A	
	N/A	N/A	N/A	3.92	N/A	3.18
3PI	N/A	1.25	N/A	N/A		N/A
	N/A			N/A	N/A	0.95
	N/A					
MW6WRF-5872	NIST-STRBASE					
	0.0028	0.0010	0.0028	0.0020	0.0010	
	0.0020	0.0040	0.0028	3.9246	0.0020	3.1806
3PI	0.0030	1.2578	0.0010	0.0028		0.0030
	0.0041			0.0064	0.00001	0.9525
	1.7611					

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

MZZK9M-5877 FBI PopStats, NIST/Promega

3PI				3.97		3.62
	1.36					0.913
	1.89					

NG4H6Q-5872 FBI PopStats

3PI	0	0	0	0	0	0
	0	0	0	4.8077	0	3.6724
	0	1.3376	0	0	0	0
	0			0	0	0.91408
	1.8706					

NJVDUK-5877 FBI PopStats

3PI				3.9246		3.1807
	1.2579					0.95256
	1.7612					

PUMMRD-5877 NIST-STRBASE

3PI	0	0	0	0	0	0
	0	0	0	3.79	0	2.93
	0	1.22	0	0	0	0
	0			0	0	0.938
	1.71					

QFL86P-5872 FBI PopStats, FBI Popstats NIST 2017 data set

3PI				3.92		3.18
	1.25					0.95

RMYJXF-5877 NIST-STRBASE

3PI	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-

RXP3PL-5872 NIST-STRBASE

3PI	0	0	0	0	0	0
	0	0	0	3.92	0	3.18
	0	1.26	0	0	0	0
	0	0	0	0	0	0.953
	1.76					

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

U36LAL-5872	FBI PopStats, NIST population					
	0	0	0	0	0	
	0	0	0	3.92	0	3.18
3PI	0	1.25	0	0		0
	0			N/A	0	0.95
	N/A					
U4WHYE-5877	NIST-STRBASE					
	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
	0.0000	0.0000	0.0000	3.9246	0.0000	3.1807
3PI	0.0000	1.2579	0.0000	0.0000		0.0000
	0.0000	N/A	N/A	0.0000	0.0000	0.9526
	Not Reported					
UG29EM-5877	STRidER					
	no match	no match	no match	no match	no match	
	no match	no match	no match	4.26	no match	3.41
3PI	no match	no match	no match	no match		no match
	no match	no match	6.25		no match	no match
	2.55					
UNMTLE-5877	[Location Identifying Database]					
				5.519		4.013
3PI		1.235				0.904
	2.108					
W2HW3B-5872	NIST-STRBASE					
	0	0	0	0	0	
	0	0	0	27.0011	0	14.1331
3PI	0	6.1666	0	0		0
	0			0	0	2.1169
	4.0978					
W4MPUN-5872	NIST-STRBASE					
	0.00	0.00	0.00	0.00	0.00	
	0.00	0.00	0.00		0.00	3.31
3PI	0.00	1.21	0.00	0.00		0.00
	0.00	0.00	0.00		0.00	0.934
	1.89					
XT8VGA-5872	NIST-STRBASE					
	0	0	0	0	0	
	0	0	0	3.92465	0	3.18066
3PI	0	1.25786	0	0		0
	0	0	0	0	0	0.95256
	1.76118					

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

YDQJ3L-5877	NIST-STRBASE					
		0	0	0	0	0
		0	0	0	3.79	2.93
3PI		0	1.22	0	0	0
		0			0	0.938
		1.71				
YNYU8H-5872	local database					
		0	0	0	0	
			0	0	5.9040	3.5198
3PI		0	1.4135	0	0	
		0			0	0
		1.7354				
YUBA2K-5872	FBI PopStats					
					4.8077	3.6724
3PI			1.3376			
						0.91408
		1.8706				

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

2GLPX3-5872	NIST-STRBASE					
	4.2992	4.878	1.4556	1.8322	2.5786	1.6869
	18.051	2.9833	2.5419	3.9246	4.2992	3.1807
4PI	3.723	1.2579	6.9444	40		51.546
	2.4716	8.6957	35.971	12.438	2.8994	1.9051
	1.7612					
2MPTLF-5872	Popstats NIST 2017					
	4.2992	4.8780	1.4556	1.8322	2.5786	
	18.051	2.9833	2.5419	3.9246	4.2992	3.1807
4PI	3.7230	1.2579	6.9444	40.000		51.546
	2.4716	8.6957	35.971	12.438	2.8994	1.9051
	1.7612					
2NZV8E-5872	NIST-STRBASE					
	4.2992	4.8780		1.8322	2.5786	1.6869
	18.0505	2.9833		3.9246	4.2992	3.1807
4PI	3.7230	1.2579	6.9444			51.5464
	2.4716	8.6957	35.9712		2.8994	1.9051
	1.7612					
2RG4VE-5872	FBI PopStats, NIST Population					
	4.29	4.87	1.45	1.83	2.57	
	18.05	2.98	2.54	3.92	4.29	3.18
4PI	3.72	1.25	6.94	40.00		51.54
	2.47			NA	2.89	1.90
	NA					
2U9YK9-5877	local/state database					
	4,19	3,50	1,41	1,81	2,56	
	21,9	2,99	1,94	4,36	4,86	3,12
4PI	3,19	1,15	5,96	13,4		21,6
	1,94			10,7	2,90	1,59
	1,83					
42JZU2-5877	FBI PopStats					
	4.2992	4.878	1.4556	1.8322	2.5786	
	18.051	2.9833	2.5419	3.9246	4.2992	3.1807
4PI	3.723	1.2579	6.9444	40		51.546
	2.4716			12.438	2.8994	1.9051
	1.7612					
46JBQ2-5877	FBI PopStats					
	4.2088	5.1813	1.6160	2.0202	2.8450	
	28.902	3.5436	2.8852	4.8077	4.4883	3.6724
4PI	2.8458	1.3376	6.9638	40.323		33.557
	2.3485				3.2841	1.8282
	1.8706					

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

4P3DJF-5872	NIST 2017					
	4.29	4.87	1.45	1.83	2.57	
	18.05	2.98	2.54	3.92	4.29	3.18
4PI	3.72	1.25	6.94	40.00		51.54
	2.47				2.89	1.90

4Z3433-5872	NIST-STRBASE					
	4.2992	4.8780	1.4556	1.8322	2.5786	
	18.0505	2.9833	2.5419	3.9246	4.2992	3.1807
4PI	3.7230	1.2579	6.9444	40.0000		51.5464
	2.4716			12.4378	2.8994	1.9051
	1.7612					

644C7C-5872	NIST-STRBASE					
	4.2992	4.8780		1.8322	2.5786	1.6869
	18.0505	2.9833		3.9246	4.2992	3.1807
4PI	3.7230	1.2579	6.9444			51.5464
	2.4716	8.6957	35.9712		2.8994	1.9051
	1.7612					

64KMMW-5872	NIST-STRBASE					
	4.2992	4.8780	1.4556	1.8321	2.5786	-
	18.0505	2.9832	2.5419	3.9246	4.2992	3.1806
4PI	3.7230	1.2578	6.9444	40.0000		51.5463
	2.4715	-	-	12.4378	2.8993	1.9051
	1.7611					

6HMU22-5872	FBI PopStats					
	4.2992	5.2411	1.4556	2.0202	2.8257	
	28.9017	3.4388	2.5419	3.9246	4.5579	3.6550
4PI	2.8818	1.3820	7.0028	40.0000		33.5570
	2.3332	7.6923	26.3158		3.2841	1.8282
	1.9026					

6L3NFD-5872	FBI PopStats, NIST Population					
	4.29	4.87	1.45	1.83	2.57	
	18.05	2.98	2.54	3.92	4.29	3.18
4PI	3.72	1.25	6.94	40.00		51.54
	2.47			NA	2.89	1.90
	NA					

6PHW4D-5872	NIST-STRBASE					
	5.7870	5.9880	1.4693	1.6420	2.8305	
	30.488	3.5236	2.4839	4.0161	4.2992	3.4305
4PI	3.8670	1.3850	6.2422	19.531		54.348
	2.3386	7.8431	7.5643		4.8638	2.1450

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

6XRN7F-5872	FBI PopStats					
		4.2088	5.1813	1.6160	2.0202	2.8450
		28.902	3.5436	2.8852	4.8077	4.4883
4PI		2.8458	1.3376	6.9638	40.323	33.557
		2.3485		11.876	3.2841	1.8282
<hr/>						
74Z4F4-5877	Base de datos especifica del laboratorio					
		6.35	10.8	1.75	1.57	3.33
		23.4	4.21	2.49	7.32	5.14
4PI		3.51	1.32	8.15	37.4	32.3
		1.86	5.3	12.3	12.5	4.68
		1.62				
<hr/>						
76YA9A-5877	NIST-STRBASE					
		4.2992	4.8780	1.4556	1.8322	2.5786
		18.051	2.9833	2.5419	4.2992	3.1807
4PI		3.7230	1.2579	6.9444	40.0	51.546
		2.4716		12.438	2.8994	1.9051
		1.7612				
<hr/>						
7EX8JX-5872	NIST-STRBASE					
		4.2992	4.8780	1.4556	1.8322	2.5786
		18.0505	2.9833	2.5419	3.9246	4.2992
4PI		3.7230	1.2579	6.9444	40.0000	51.5464
		2.4716	-	-	12.4378	2.8994
		1.7612				
<hr/>						
7WXUBW-5872	NIST-STRBASE					
		4.2992	4.8780	1.4556	1.8321	2.5786
		18.0505	2.9832	2.5419	3.9246	4.2992
4PI		3.7230	1.2578	6.9444	40.0000	51.5463
		2.4715		12.4378	2.8993	1.9051
		1.7611				
<hr/>						
86M6XX-5877	Laboratory Specific Database					
		4.209	5.181	1.616	2.020	2.845
		28.902	3.544	2.885	4.808	4.488
4PI		2.846	1.338	6.964	40.323	33.557
		2.349	8.598	28.902	11.876	3.284
		1.871				
<hr/>						
9P7TJ9-5872	FBI PopStats					
		4.2088	5.1813	1.6160	2.0202	2.8450
		28.902	3.5436	2.8852	4.8077	4.4883
4PI		2.8458	1.3376	6.9638	40.323	33.557
		2.3485		11.876	3.2841	1.8282

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

9QLQB9-5872	NIST-STRBASE					
	5.788	5.988		1.642	2.831	2.398
	30.471	3.524		4.016	4.299	3.430
4PI	3.866	1.385	6.241			54.526
	2.339	7.841	7.562		4.864	2.145
	1.908					
A3ACU9-5872	FBI PopStats, NIST POPULATION					
	4.29	4.87	1.45	1.83	2.57	
	18.05	2.98	2.54	3.92	4.29	3.18
4PI	3.72	1.25	6.94	40.00		51.54
	2.47			N/A	2.89	1.90
	N/A					
A8PKH9-5872	Popstats NIST 2017					
	4.2992	4.8780	1.4556	1.8322	2.5786	
	18.051	2.9833	2.5419	3.9246	4.2992	3.1807
4PI	3.7230	1.2579	6.9444	40.000		51.546
	2.4716	8.6957	35.971	12.438	2.8994	1.9051
	1.7612					
A9ZPVW-5872	NIST-STRBASE					
	4.2992	4.8780	1.4556	1.8322	2.5786	
	18.0505	2.9833	2.5419	3.9246	4.2992	3.1807
4PI	3.7230	1.2579	6.9444	40.0000		51.5464
	2.4716			12.4378	2.8994	1.9051
	1.7612					
ADUJTX-5877	NIST-STRBASE					
	22.92	7.12	2.08	5.96	8.52	
	24.31	33.29	4.30	12.09	4.01	7.84
4PI	10.03	7.84	30.02	15.22		21.75
	13.69	16.57	50.91	80.45	7.34	3.36
	2.78					
AJF6MC-5872	NSDS(local/state database)					
		5.31		2.07	2.81	
	28.87	3.25			4.09	2.93
4PI	3.98	1.47	6.79			35.54
	2.38				2.94	1.95
	2.07					
AKPLVA-5872	FBI PopStats					
	4.2088	5.1813	1.6160	2.0202	2.8450	
	28.902	3.5436	2.8852	4.8077	4.4883	3.6724
4PI	2.8458	1.3376	6.9638	40.323		33.557
	2.3485	8.5985	28.902	11.876	3.2841	1.8282
	1.8706					

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

AMZMJT-5872	NIST-STRBASE					
	4.299226139	4.878536587	1.455749636	1.832172957	2.578906653	1.687078273
	18.05054152	2.983293556	2.542450432	3.925431711	4.299226139	3.180343512
4PI	3.723380492	1.257610063	6.944444444	40.00		51.54639175
	2.471824024	8.697391305	35.97482014	12.44278607	2.899681067	1.905315298
	1.761183515					
AVBP6U-5872	NIST-STRBASE					
	4.29	4.87	1.45	1.83	2.57	1.68
	18.05	2.98	2.54	3.92	4.29	3.18
4PI	3.72	1.25	6.94	40.0		51.5
	2.47	8.69	35.97	12.43	2.89	1.90
	1.76					
B77HQQ-5872	NIST-STRBASE					
	4.2992	4.8780	1.4556	1.8321	2.5786	-
	18.0505	2.9832	2.5419	3.9246	4.2992	3.1806
4PI	3.7230	1.2578	6.9444	40.0000		51.5463
	2.4715	-	-	12.4378	2.8993	1.9051
	1.7611					
D2ADAQ-5872	NIST-STRBASE					
	4.30	4.88	1.46	1.83	2.58	
	18.05	2.98	2.54	3.93	4.30	3.18
4PI	3.72	1.26	6.94	40		51.55
	2.47			12.44	2.90	1.91
	1.76					
D7F4DW-5872	Local Database					
	4.25	3.64	1.51	2.00	2.78	
	18.52	3.30	2.15	4.86	5.62	3.47
4PI	3.87	1.23	7.16	10.37		27.47
	3.05	8.62	54.35	11.34	3.05	1.82
	1.69					
DDYACP-5872	FBI PopStats, laboratory specific database					
		5.08		2.01	2.81	
	25.4	3.39			4.47	3.65
4PI	2.85	1.36	6.78			29.1
	2.28	8.41	34.5		3.26	1.83
	1.89					
DER389-5872	NIST-STRBASE					
	4.30	4.88	1.46	1.83	2.58	
	18.1	2.98	2.54		4.30	3.18
4PI	3.72	1.26	6.94	40.0		51.5
	2.47	8.70	36.0		2.90	1.91
	1.76					

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

E9MLBT-5872	FBI PopStats	4.209	5.181	1.616	2.202	2.845	
		28.902	3.544	2.885	4.808	4.488	3.672
	4PI	2.846	1.338	6.964	67.568		33.557
		2.349			11.877	3.284	1.828
		1.871					
EDHJDP-5872	FBI PopStats	4.2088	5.1813	1.6160	2.0202	2.8450	
		28.902	3.5436	2.8852	4.8077	4.4883	3.6724
	4PI	2.8458	1.3376	6.9638	40.323		33.557
		2.3485			11.876	3.2841	1.8282
		1.8706					
EHRTTD-5872	NIST-STRBASE	4.30	4.88	1.46	1.83	2.58	
		18.1	2.98	2.54	3.92	4.30	3.18
	4PI	3.72	1.26	6.94			51.6
		2.47	8.69	36.1		2.90	1.91
		1.76					
FBLJW6-5872	FBI PopStats	4.2088	5.1813	1.6160	2.0202	2.8450	
		28.902	3.5436	2.8852	4.8077	4.4883	3.6724
	4PI	2.8458	1.3376	6.9638	40.323		33.557
		2.3485			11.876	3.2841	1.8282
FF2RK6-5877	FBI PopStats	4.2088	5.1813	1.6160	2.0202	2.8450	
		28.902	3.5436	2.8852	4.8077	4.4883	3.6724
	4PI	2.8458	1.3376	6.9638	40.323		33.557
		2.3485	8.5985	28.902	11.876	3.2841	1.8282
		1.8706					
FH8CBQ-5877	laboratory specific database	3.27	4.09	1.32	1.51	2.63	
		12.3	3.43	2.91	3.77	3.86	2.56
	4PI	3.21	1.18	3.74	12.76		11.10
		1.87			7.81	2.97	1.69
		1.72					
FP7YZ6-5877	NIST-STRBASE	4.12	4.62	1.43	1.72	2.55	
		13.7	2.93	2.52	omitted	4.11	2.93
	4PI	3.60	1.22	5.64	22.9		26.0
		2.24			10.4	2.85	1.84
		1.71					

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 4PI - Paternity Index Results

FRCQF8-5872	Local Government Database					
	-	5.31	-	2.07	2.81	-
	28.87	3.25	-	-	4.09	2.93
4PI	3.98	1.47	6.79	-	-	35.54
	2.38	-	-	-	2.94	1.95
	2.07					
GPZ4WP-5872	NIST-STRBASE					
	4.2992	4.8780	1.4556	1.8322	2.5786	-
	18.0505	2.9833	2.5419	3.9246	4.2992	3.1807
4PI	3.7230	1.2579	6.9444	40.0000	-	51.5464
	2.4716	-	-	12.4378	2.8994	1.9051
	1.7612					
H742TT-5872	NIST-STRBASE					
	4.2992	4.8780	1.4556	1.8321	2.5786	-
	18.0505	2.9832	2.5419	3.9246	4.2992	3.1806
4PI	3.7230	1.2578	6.9444	40.0000	-	51.5463
	2.4715	8.6956	35.9712	-	2.8993	1.9051
	1.7611					
HBJ9GT-5872	NIST-STRBASE					
	-	4.87	-	1.83	2.57	-
	18.05	2.98	-	-	4.29	3.18
4PI	3.72	1.25	6.94	-	-	51.54
	2.47	-	-	-	2.89	1.90
	1.76					
HEW9DJ-5872	ABI ID Direct PCR Amp. Kit manual					
	-	4.72	-	1.97	2.84	-
	38.76	3.56	-	-	4.48	3.13
4PI	2.98	1.36	6.98	-	-	34.97
	2.34	-	-	-	3.44	1.88
	2.04					
HJNFVT-5877	NIST-STRBASE					
	4.2992	4.8780	1.4556	1.8322	2.5786	1.6869
	18.0505	2.9833	2.5419	3.9246	4.2992	3.1807
4PI	3.7230	1.2579	6.9444	40.0000	-	51.5464
	2.4716	8.6957	35.9712	12.4378	2.8994	1.9051
	1.7612					
HR4YFR-5872	NIST-STRBASE, for HdPlex - local database					
	4.299226	4.878049	1.455604	1.832173	2.578649	-
	45.454545	3.295979	2.541942	3.924647	4.299226	3.180662
4PI	3.723008	1.270003	7.163324	10.373444	-	27.472527
	3.088326	8.695652	54.347826	12.437811	2.899391	1.905125
	1.761184					

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

HWEA72-5872	Popstats NIST 2017					
	4.2992	4.8780	1.4556	1.8322	2.5786	
	18.051	2.9833	2.5419	3.9246	4.2992	3.1807
4PI	3.7230	1.2579	6.9444	40.000		51.546
	2.4716	8.6957	35.971	12.438	2.8994	1.9051
	1.7612					
JPATAL-5877	FBI PopStats					
	4.2088	5.1813	1.6160	2.0202	2.8450	
	28.902	3.5436	2.8852	4.8077	4.4883	3.6724
4PI	2.8458	1.3376	6.9638	40.323		33.557
	2.3485				3.2841	1.8282
	1.8706					
KPPCTX-5872	FBI PopStats					
	4.2088	5.1813	1.6160	2.0202	2.8450	
	28.902	3.5436	2.8852	4.8077	4.4883	3.6724
4PI	2.8458	1.3376	6.9638	40.323		33.557
	2.3485			11.876	3.2841	1.8282
KRH9GR-5872	NIST-STRBASE					
	4.2992	4.8780	1.4556	1.8321	2.5786	
	18.0505	2.9832	2.5419	3.9246	4.2992	3.1806
4PI	3.7230	1.2578	6.9444	40.0000		51.5463
	2.4715	8.6956	35.9712		2.8993	1.9051
	1.7611					
KU4AZK-5877	Life Technologies					
		4.72		1.97	2.84	
	38.76	3.56			4.48	3.13
4PI	2.98	1.36	6.98			34.97
	2.34				3.44	1.88
	2.04					
L84BDL-5877	laboratory specific database					
	3,732150988	6,171631424	1,40268446	2,069303099	2,929618768	
	20,02	4,354149069	2,71427602	6,333369222	5,55	3,265626021
4PI	2,829969554	1,546904367	7,464235064	209,0301003		31,25
	2,247314462			17,41667828	4,019227987	1,881355932
	2,111109938					
LHMMNY-5872	NIST-STRBASE					
	4.30	4.88	1.46	1.83	2.58	
	18.1	2.98	2.54		4.30	3.18
4PI	3.72	1.26	6.94	40.0		51.5
	2.47	8.70	36.0		2.90	1.91
	1.76					

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

LKU6MU-5872	Laboratory Specific Database					
	4.4964	4.7125	1.4916	1.8990	2.8620	
	25.0000	3.7453	2.5760	4.6296	4.9801	3.2092
4PI	3.1990	1.2723	5.8685	25.0000		25.0000
	2.3364			13.8889	3.0694	1.8720
	1.9701					
M8HUWJ-5872	NIST-STRBASE					
	4.2992	4.8780	1.4556	1.8322	2.5786	
	18.0505	2.9833	2.5419	3.9246	4.2992	3.1807
4PI	3.7230	1.2579	6.9444	40.0000		51.5464
	2.4716			12.4378	2.8994	1.9051
	1.7612					
MR8DNV-5872	FBI PopStats, NIST POPULATION					
	4.29	4.87	1.45	1.83	2.57	
	18.05	2.98	2.54	3.92	4.29	3.18
4PI	3.72	1.25	6.94	40.00		51.54
	2.47			N/A	2.89	1.90
	N/A					
MW6WRF-5872	NIST-STRBASE					
	4.2992	4.8780	1.4556	1.8321	2.5786	
	18.0505	2.9832	2.5419	3.9246	4.2992	3.1806
4PI	3.7230	1.2578	6.9444	40.0000		51.5463
	2.4715			12.4378	2.8993	1.9051
	1.7611					
MZZK9M-5877	FBI PopStats, NIST/Promega					
	4.51	5.08	1.5	2	2.81	
	25.3	3.39	2.54	3.97	4.47	3.62
4PI	2.85	1.36	6.78	38.4		29.1
	2.28	8.41	42.3		3.26	1.83
	1.89					
NG4H6Q-5872	FBI PopStats					
	4.2088	5.1813	1.6160	2.0202	2.8450	
	28.902	3.5436	2.8852	4.8077	4.4883	3.6724
4PI	2.8458	1.3376	6.9638	40.323		33.557
	2.3485			11.876	3.2841	1.8282
	1.8706					
NJVDUK-5877	FBI PopStats					
	4.2992	4.8780	1.4556	1.8322	2.5786	
	18.051	2.9833	2.5419	3.9246	4.2992	3.1807
4PI	3.7230	1.2579	6.9444	40.000		51.546
	2.4716			12.438	2.8994	1.9051
	1.7612					

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

P2L9GR-5872	FBI PopStats					
	4.2088	5.1813	1.6160	2.0202	2.8450	
	28.902	3.5436	2.8852	4.8077	4.4883	3.6724
4PI	2.8458	1.3376	6.9638	40.323		33.557
	2.3485			11.876	3.2841	1.8282

P4D67L-5872	NIST-STRBASE					
	4.2992	4.8780	1.4556	1.8321	2.5786	
	18.0505	2.9832	2.5419	3.9246	4.2992	3.1806
4PI	3.7230	1.2578	6.9444	40.0000		51.5463
	2.4715	8.6956	35.9712		2.8993	1.9051
	1.7611					

PUMMRD-5877	NIST-STRBASE					
	4.12	4.62	1.43	1.72	2.55	
	13.7	2.93	2.52	omitted	4.11	2.93
4PI	3.60	1.22	5.64	22.9		26.0
	2.24			10.4	2.85	1.84
	1.71					

QCZKC2-5872	NIST-STRBASE					
	4.3	4.88	1.46	1.83	2.58	
	18.1	2.98	2.54	3.92	4.3	3.18
4PI	3.72	1.26	6.94	40.1		51.6
	2.47			12.4	2.9	1.91
	Linked					

QFL86P-5872	FBI PopStats, FBI Popstats NIST 2017 data set					
	4.29	4.87	1.45	1.83	2.57	
	18.05	2.98	2.54	3.92	4.29	3.18
4PI	3.72	1.25	6.94	40.00		51.54
	2.47				2.89	1.90

QU4ZTV-5872	NIST-STRBASE					
	4.30	4.88	1.46	1.83	2.58	
	18.1	2.98	2.54		4.30	3.18
4PI	3.72	1.26	6.94	40.0		51.5
	2.47	8.70	36.0		2.90	1.91
	1.76					

RABJ6T-5872	NIST-STRBASE					
	4.2992	4.8780	1.4556	1.8322	2.5786	
	18.051	2.9833	2.5419		4.2992	3.1807
4PI	3.7230	1.2579	6.9444	40.000		51.546
	2.4716			12.438	2.8994	1.9051

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

RMYJXF-5877	NIST-STRBASE					
	4.299	4.878	1.456	1.832	2.579	1.687
	18.051	2.983	2.542	3.925	4.299	3.181
4PI	3.723	1.258	6.944	40		51.546
	2.472	8.696	35.971		2.899	1.905
	1.761					
RXP3PL-5872	NIST-STRBASE					
	4.30	4.88	1.46	1.83	2.58	1.69
	18.1	2.98	2.54	3.92	4.30	3.18
4PI	3.72	1.26	6.94	40.0		51.5
	2.47	8.70	36.0		2.90	1.91
	1.76					
TLX6NT-5872	NIST-STRBASE					
	4.30	4.88	1.46	1.83	2.58	
	18.1	2.98	2.54		4.30	3.18
4PI	3.72	1.26	6.94	40.0		51.5
	2.47	8.70	36.0		2.90	1.91
	1.76					
TQEDCR-5872	NIST-STRBASE					
	5.7870	5.9880	1.4693	1.6420	2.8305	
	30.4878	3.5236	2.4839	-	4.2992	3.4305
4PI	3.8670	1.3850	6.2422	19.5313		50.0000
	2.3386			13.2979	4.8638	2.1450
	1.9077					
U36LAL-5872	FBI PopStats, NIST population					
	4.29	4.87	1.45	1.83	2.57	
	18.05	2.98	2.54	3.92	4.29	3.18
4PI	3.72	1.25	6.94	40.00		51.54
	2.47			N/A	2.89	1.90
	N/A					
U4WHYE-5877	NIST-STRBASE					
	4.2992	4.8780	1.4556	1.8322	2.5786	N/A
	18.0505	2.9833	2.5419	3.9246	4.2992	3.1807
4PI	3.7230	1.2579	6.9444	40.0000		51.5464
	2.4716	N/A	N/A	12.4378	2.8994	1.9051
	Not Reported					
UDM33R-5872	FBI PopStats					
	4.30	4.88	1.46	1.83	2.58	
	18.1	2.98	2.54		4.30	3.18
4PI	3.72	1.26	6.94	40.0		51.5
	2.47	8.70	36.0		2.90	1.91
	1.76					

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

UG29EM-5877	STRidER					
		4.06	4.03	1.38	1.99	2.76
		25.77	3.64	2.57	4.62	4.97
4PI		3.09	1.38	9.43	26.31	47.61
		2.41	11.23	50.00		3.15
		1.80				1.84
UNMTLE-5877	[Location Identifying Database]					
		17.422	7.353	1.706	1.385	4.535
		66.200	4.869	2.470	5.519	13.228
4PI		2.398	1.235	5.092	66.200	36.765
		1.790			66.200	38.911
		2.108				1.809
VG2ZAE-5872	NIST Caucasian					
		4.298	4.878	1.456	1.832	2.579
		18.05	2.983	2.542	3.924	4.298
4PI		3.722	1.258	6.942	40.11	51.57
		2.473			12.45	2.90
		1.761				1.905
VKJKUA-5877	FBI PopStats					
		4.2088	5.1813	1.6160	2.0202	2.8450
		28.902	3.5436	2.8852	4.8077	4.4883
4PI		2.8458	1.3376	6.9638	40.323	33.557
		2.3485				3.2841
		1.8706				1.8282
W2HW3B-5872	NIST-STRBASE					
		92.9107	12.0648	2.7739	4.7787	13.3617
		80.3624	56.3833	3.4397	26.9943	4.8960
4PI		9.5578	6.1654	40.8563	24.0672	42.0543
		12.3635			172.6304	12.2230
		4.0859				4.2293
W4MPUN-5872	NIST-STRBASE					
		4.21	4.78	1.43	1.80	2.53
		18.8	2.92	2.49		4.57
4PI		3.65	1.21	6.81	72.6	52.0
		2.35	8.53	40.8		2.84
		1.73				1.94
W8CR3W-5877	STRider					
		3,86	4,83	1,48	1,95	2,63
		25,31	3,67	2,43	4,76	5,26
4PI		2,98	1,28	7,03	39,09	67,78
		2,26	9,78	42,79	12,03	3,27
		1,81				1,85

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

XT8VGA-5872	NIST-STRBASE					
	4.29923	4.87805	1.4556	1.83217	2.57865	
	18.05054	2.98329	2.54194	3.92465	4.29923	3.18066
4PI	3.72301	1.25786	6.94444	40.0		51.54639
	2.47158	8.69565	35.97122	12.43781	2.89939	1.90512
	1.76118					
YDQJ3L-5877	NIST-STRBASE					
	4.12	4.62	1.43	1.72	2.55	
	13.7	2.93	2.52	N/A	4.11	2.93
4PI	3.60	1.22	5.64	22.9		26.0
	2.24			10.4	2.85	1.84
	1.71					
YNYU8H-5872	local database					
	3.8361	4.7454	1.7147	1.9179		
		3.6315	2.0541	5.9040		3.5198
4PI	2.9927	1.4135	8.2398	44.9236		
	2.3054			13.5432	3.5118	
	1.7354					
YUBA2K-5872	FBI PopStats					
	4.2088	5.1813	1.6160	2.0202	2.8450	
	28.902	3.5436	2.8852	4.8077	4.4883	3.6724
4PI	2.8458	1.3376	6.9638	40.323		33.557
	2.3485			11.876	3.2841	1.8282
	1.8706					

YSTR Amplification Kit(s) & Results

TABLE 3

WebCode-Test	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									
2GLPX3-5872	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	13
2	16	10	12	20		15	16		25
		11	11	21	16		22	12	10
2U9YK9-5877	Yfiler® Plus								
	37,38	15	13,14	12	28	22	10	11	13
2	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
42JZU2-5877	Yfiler® Plus								
	37,38	15	13,14	12	28	22	10	11	13
2	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
64KMMW-5872	Yfiler®								
	-	15	13,14	12	28	22	10	11	13
2	16	10	12	20	-	15	16	-	-
	-	-	-	-	-	-	22	-	10
6HMU22-5872	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	13
2	16	10	12	20		15	16		25
		11	11	21	16		22	12	10
6XRN7F-5872	Yfiler® Plus								
	37,38	15	13,14	12	28	22	10	11	13
2	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
74Z4F4-5877	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	13
2	16	10	12	20		15	16		25
		11	11	21	16		22	12	10
7EX8JX-5872	Yfiler®								
	-	15	13,14	12	28	22	10	11	13
2	16	10	12	20	-	15	16	-	-
	-	-	-	-	-	-	22	-	10
7WXUBW-5872	Yfiler®								
		15	13,14	12	28	22	10	11	13
2	16	10	12	20		15	16		
							22		10

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										
9P7TJ9-5872		Yfiler® Plus								
		37,38	15	13,14	12	28	22	10	11	13
2		16	10	12	20	26	15	16	11	25
		37	11		21	16	20	22		10
9QLQB9-5872		Yfiler® Plus								
		37,38	15	13,14	12	28	22	10	11	13
2		16	10	12	20	26	15	16	11	25
		37	11		21	16	20	22		10
AMZMJT-5872		PowerPlex® Y 23								
			15	13,14	12	28	22	10	11	13
2		16	10	12	20		15	16		25
			11	11	21	16		22	12	10
AVBP6U-5872		PowerPlex® Y 23								
			15	13,14	12	28	22	10	11	13
2		16	10	12	20		15	16		25
			11	11	21	16		22	12	10
B77HQQ-5872		Yfiler®								
		-	15	13,14	12	28	22	10	11	13
2		16	10	12	20	-	15	16	-	-
		-	-	-	-	-	-	22	-	10
D7F4DW-5872		PowerPlex® Y 23 System								
			15	13,14	12	28	22	10	11	13
2		16	10	12	20		15	16		25
			11	11	21	16		22	12	10
E9MLBT-5872		PowerPlex® Y 23								
			15	13,14	12	28	22	10	11	13
2		16	10	12	20		15	16		25
			11	11	21	16		22	12	10
FBLJW6-5872		Yfiler® Plus								
		37,38	15	13,14	12	28	22	10	11	13
2		16	10	12	20	26	15	16	11	25
		37	11		21	16	20	22		10
GPZ4WP-5872		Yfiler®								
		-	15	13,14	12	28	22	10	11	13
2		16	10	12	20	-	15	16	-	-
		-	-	-	-	-	-	22	-	10
H742TT-5872		Yfiler®								
			15	13,14	12	28	22	10	11	13
2		16	10	12	20		15	16		
								22		10

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									
HBJ9GT-5872	Yfiler®								
		15	13,14	12	28	22	10	11	13
2	16	10	12	20		15	16		
							22		10
HEW9DJ-5872	Yfiler® PLUS								
	37,38	15	13,14	12	28	22	10	11	13
2	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
HJNFVT-5877	Yfiler®								
	37,38	15	13,14	12	28	22	10	11	13
2	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
HMNRRT-5877	Y Filer Plus								
	37,38	15	13,14	12	28	22	10	11	13
2	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
HR4YFR-5872	Yfiler®								
		15	13,14	12	28	22	10	11	13
2	16	10	12	20		15	16		
							22		10
KPPCTX-5872	Yfiler® Plus								
	37,38	15	13,14	12	28	22	10	11	13
2	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
KRH9GR-5872	Yfiler®								
		15	13,14	12	28	22	10	11	13
2	16	10	12	20		15	16		
							22		10
MW6WRF-5872	Yfiler®								
		15	13,14	12	28	22	10	11	13
2	16	10	12	20		15	16		
							22		10
NJVDUK-5877	Yfiler® PLUS								
	37,38	15	13,14	12	28	22	10	11	13
2	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
P2L9GR-5872	Yfiler® Plus								
	37,38	15	13,14	12	28	22	10	11	13
2	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10

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									
P4D67L-5872	Yfiler®								
		15	13,14	12	28	22	10	11	13
2	16	10	12	20		15	16		
							22		10
PUMMRD-5877	Yfiler®								
		15	13,14	12	28	22	10	11	13
2	16	10	12	20		15	16		
							22		10
QCZKC2-5872	Yfiler® Plus								
	37,38	15	13,14	12	28	22	10	11	13
2	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
RMYJXF-5877	Yfiler® Plus								
	37,38	15	13,14	12	28	22	10	11	13
2	16	10	12	20	26	15	16	11	25
	37	11	-	21	16	20	22	-	10
TLX6NT-5872	Yfiler®								
		15	13,14	12	28	22	10	11	13
2	16	10	12	20		15	16		
							22		10
UG29EM-5877	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	13
2	16	10	12	20		15	16		25
		11	11	21	16		22	12	10
UNMTLE-5877	Yfiler® Plus								
	37,38	15	13,14	12	28	22	10	11	13
2	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
VG2ZAE-5872	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	13
2	16	10	12	20		15	16		25
		11	11	21	16		22	12	10
W2HW3B-5872	Yfiler® Plus								
	37,38	15	13,14	12	28	22	10	11	13
2	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
W8CR3W-5877	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	13
2	16	10	12	20		15	16		25
		11	11	21	16		22	12	10

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

XT8VGA-5872	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	13
2	16	10	12	20		15	16		25
		11	11	21	16		22	12	10
YNYU8H-5872	Yfiler®								
		15	13,14	12	28	22	10	11	13
2	16	10	12	20		15	16		
							22		10

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 3 - YSTR Results

2GLPX3-5872		PowerPlex® Y 23							
3		14	12,14	13	29	23	11	13	13
	15	12	12	20		16	16		22
		13	13	17	18		24	10	12
2U9YK9-5877		Yfiler® Plus							
3	35,36	14	12,14	13	29	23	11	13	13
	15	12	12	20	31	16	16	12	22
	40	13		17	18	21	24		12
42JZU2-5877		Yfiler® Plus							
3	35,36	14	12,14	13	29	23	11	13	13
	15	12	12	20	31	16	16	12	22
	40	13		17	18	21	24		12
64KMMW-5872		Yfiler®							
3	-	14	12,14	13	29	23	11	13	13
	15	12	12	20	-	16	16	-	-
	-	-	-	-	-	-	24	-	12
6HMU22-5872		PowerPlex® Y 23							
3		14	12,14	13	29	23	11	13	13
	15	12	12	20		16	16		22
		13	13	17	18		24	10	12
6XRN7F-5872		Yfiler® Plus							
3	35,36	14	12,14	13	29	23	11	13	13
	15	12	12	20	31	16	16	12	22
	40	13		17	18	21	24		12
74Z4F4-5877		PowerPlex® Y 23							
3		14	12,14	13	29	23	11	13	13
	15	12	12	20		16	16		22
		13	13	17	18		24	10	12
7EX8JX-5872		Yfiler®							
3	-	14	12,14	13	29	23	11	13	13
	15	12	12	20	-	16	16	-	-
	-	-	-	-	-	-	24	-	12
7WXUBW-5872		Yfiler®							
3		14	12,14	13	29	23	11	13	13
	15	12	12	20		16	16		
							24		12
9P7TJ9-5872		Yfiler® Plus							
3	35,36	14	12,14	13	29	23	11	13	13
	15	12	12	20	31	16	16	12	22
	40	13		17	18	21	24		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

9QLQB9-5872	Yfiler® Plus								
	35,36	14	12,14	13	29	23	11	13	13
3	15	12	12	20	31	16	16	12	22
	40	13		17	18	21	24		12
AMZMJT-5872	PowerPlex® Y 23								
		14	12,14	13	29	23	11	13	13
3	15	12	12	20		16	16		22
		13	13	17	18		24	10	12
AVBP6U-5872	PowerPlex® Y 23								
		14	12,14	13	29	23	11	13	13
3	15	12	12	20		16	16		22
		13	13	17	18		24	10	12
B77HQQ-5872	Yfiler®								
	-	14	12,14	13	29	23	11	13	13
3	15	12	12	20	-	16	16	-	-
	-	-	-	-	-	-	24	-	12
D7F4DW-5872	PowerPlex® Y 23 System								
		14	12,14	13	29	23	11	13	13
3	15	12	12	20		16	16		22
		13	13	17	18		24	10	12
E9MLBT-5872	PowerPlex® Y 23								
		14	12,14	13	29	23	11	13	13
3	15	12	12	20		16	16		22
		13	13	17	18		24	10	12
FBLJW6-5872	Yfiler® Plus								
	35,36	14	12,14	13	29	23	11	13	13
3	15	12	12	20	31	16	16	12	22
	40	13		17	18	21	24		12
GPZ4WP-5872	Yfiler®								
	-	14	12,14	13	29	23	11	13	13
3	15	12	12	20	-	16	16	-	-
	-	-	-	-	-	-	24	-	12
H742TT-5872	Yfiler®								
		14	12,14	13	29	23	11	13	13
3	15	12	12	20		16	16		
							24		12
HBJ9GT-5872	Yfiler®								
		14	12,14	13	29	23	11	13	13
3	15	12	12	20		16	16		
							24		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 3 - YSTR Results

HEW9DJ-5872		Yfiler® PLUS							
	35,36	14	12,14	13	29	23	11	13	13
3	15	12	12	20	31	16	16	12	22
	40	13		17	18	21	24		12
HJNFVT-5877		Yfiler®							
	35,36	14	12,14	13	29	23	11	13	13
3	15	12	12	20	31	16	16	12	22
	40	13		17	18	21	24		12
HMRNRT-5877		Y Filer Plus							
	35,36	14	12,14	13	29	23	11	13	13
3	15	12	12	20	31	16	16	12	22
	40	13		17	18	21	24		12
HR4YFR-5872		Yfiler®							
		14	12,14	13	29	23	11	13	13
3	15	12	12	20		16	16		
							24		12
KPPCTX-5872		Yfiler® Plus							
	35,36	14	12,14	13	29	23	11	13	13
3	15	12	12	20	31	16	16	12	22
	40	13		17	18	21	24		12
KRH9GR-5872		Yfiler®							
		14	12,14	13	29	23	11	13	13
3	15	12	12	20		16	16		
							24		12
MW6WRF-5872		Yfiler®							
		14	12,14	13	29	23	11	13	13
3	15	12	12	20		16	16		
							24		12
NJVDUK-5877		Yfiler® PLUS							
	35,36	14	12,14	13	29	23	11	13	13
3	15	12	12	20	31	16	16	12	22
	40	13		17	18	21	24		12
P2L9GR-5872		Yfiler® Plus							
	35,36	14	12,14	13	29	23	11	13	13
3	15	12	12	20	31	16	16	12	22
	40	13		17	18	21	24		12
P4D67L-5872		Yfiler®							
		14	12,14	13	29	23	11	13	13
3	15	12	12	20		16	16		
							24		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 3 - YSTR Results									
PUMMRD-5877	Yfiler®								
		14	12,14	13	29	23	11	13	13
3	15	12	12	20		16	16		
							24		12
QCZKC2-5872	Yfiler® Plus								
	35,36	14	12,14	13	29	23	11	13	13
3	15	12	12	20	31	16	16	12	22
	40	13		17	18	21	24		12
RMYJXF-5877	Yfiler® Plus								
	35,36	14	12,14	13	29	23	11	13	13
3	15	12	12	20	31	16	16	12	22
	40	13	-	17	18	21	24	-	12
TLX6NT-5872	Yfiler®								
		14	12,14	13	29	23	11	13	13
3	15	12	12	20		16	16		
							24		12
UG29EM-5877	PowerPlex® Y 23								
		14	12,14	13	29	23	11	13	13
3	15	12	12	20		16	16		22
		13	13	17	18		24	10	12
UNMTLE-5877	Yfiler® Plus								
	35,36	14	12,14	13	29	23	11	13	13
3	15	12	12	20	31	16	16	12	22
	40	13		17	18	21	24		12
VG2ZAE-5872	PowerPlex® Y 23								
		14	12,14	13	29	23	11	13	13
3	15	12	12	20		16	16		22
		13	13	17	18		24	10	12
W2HW3B-5872	Yfiler® Plus								
	35,36	14	12,14	12	29	23	11	13	13
3	15	12	12	20	31	16	16	12	22
	40	13		17	18	21	24		12
W8CR3W-5877	PowerPlex® Y 23								
		14	12,14	13	29	23	11	13	13
3	15	12	12	20		16	16		22
		13	13	17	18		24	10	12
XT8VGA-5872	PowerPlex® Y 23								
		14	12,14	13	29	23	11	13	13
3	15	12	12	20		16	16		22
		13	13	17	18		24	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 3 - YSTR Results

WebCode-Test	Yfiler®								
YNYU8H-5872		14	12,14	13	29	23	11	13	13
3	15	12	12	20		16	16		
							24		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

2GLPX3-5872		PowerPlex® Y 23							
		15	13,14	12	28	22	10	11	13
4	16	10	12	20	15	16	16	25	
		11	11	21	16	22	12	10	
2U9YK9-5877		Yfiler® Plus							
	38	15	13,14	12	28	22	10	11	13
4	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
42JZU2-5877		Yfiler® Plus							
	38	15	13,14	12	28	22	10	11	13
4	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
64KMMW-5872		Yfiler®							
	-	15	13,14	12	28	22	10	11	13
4	16	10	12	20	-	15	16	-	-
	-	-	-	-	-	-	22	-	10
6HMU22-5872		PowerPlex® Y 23							
		15	13,14	12	28	22	10	11	13
4	16	10	12	20	15	16	16	25	
		11	11	21	16	22	12	10	
6XRN7F-5872		Yfiler® Plus							
	38	15	13,14	12	28	22	10	11	13
4	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
74Z4F4-5877		PowerPlex® Y 23							
		15	13,14	12	28	22	10	11	13
4	16	10	12	20	15,15	16	16	25	
		11	11	21	16	22	12	10	
7EX8JX-5872		Yfiler®							
	-	15	13,14	12	28	22	10	11	13
4	16	10	12	20	-	15	16	-	-
	-	-	-	-	-	-	22	-	10
7WXUBW-5872		Yfiler®							
		15	13,14	12	28	22	10	11	13
4	16	10	12	20	15	16	16	25	
						22		10	
9P7TJ9-5872		Yfiler® Plus							
	38	15	13,14	12	28	22	10	11	13
4	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10

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									
9QLQB9-5872	Yfiler® Plus								
	38,38	15	13,14	12	28	22	10	11	13
4	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
AMZMJT-5872	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	13
4	16	10	12	20		15	16		25
		11	11	21	16		22	12	10
AVBP6U-5872	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	13
4	16	10	12	20		15	16		25
		11	11	21	16		22	12	10
B77HQQ-5872	Yfiler®								
	-	15	13,14	12	28	22	10	11	13
4	16	10	12	20	-	15	16	-	-
	-	-	-	-	-	-	22	-	10
D7F4DW-5872	PowerPlex® Y 23 System								
		15	13,14	12	28	22	10	11	13
4	16	10	12	20		15	16		25
		11	11	21	16		22	12	10
E9MLBT-5872	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	13
4	16	10	12	20		15	16		25
		11	11	21	16		22	12	10
FBLJW6-5872	Yfiler® Plus								
	38	15	13,14	12	28	22	10	11	13
4	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
GPZ4WP-5872	Yfiler®								
	-	15	13,14	12	28	22	10	11	13
4	16	10	12	20	-	15	16	-	-
	-	-	-	-	-	-	22	-	10
H742TT-5872	Yfiler®								
		15	13,14	12	28	22	10	11	13
4	16	10	12	20		15	16		
							22		10
HBJ9GT-5872	Yfiler®								
		15	13,14	12	28	22	10	11	13
4	16	10	12	20		15	16		
							22		10

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

HEW9DJ-5872		Yfiler® PLUS							
	38,38	15	13,14	12	28	22	10	11	13
4	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
HJNFVT-5877		Yfiler®							
	38	15	13,14	12	28	22	10	11	13
4	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
HMRNRT-5877		Y Filer Plus							
	38	15	13,14	12	28	22	10	11	13
4	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
HR4YFR-5872		Yfiler®							
		15	13,14	12	28	22	10	11	13
4	16	10	12	20		15	16		
							22		10
KPPCTX-5872		Yfiler® Plus							
	38	15	13,14	12	28	22	10	11	13
4	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
KRH9GR-5872		Yfiler®							
		15	13,14	12	28	22	10	11	13
4	16	10	12	20		15	16		
							22		10
MW6WRF-5872		Yfiler®							
		15	13,14	12	28	22	10	11	13
4	16	10	12	20		15	16		
							22		10
NJVDUK-5877		Yfiler® PLUS							
	38	15	13,14	12	28	22	10	11	13
4	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
P2L9GR-5872		Yfiler® Plus							
	38	15	13,14	12	28	22	10	11	13
4	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
P4D67L-5872		Yfiler®							
		15	13,14	12	28	22	10	11	13
4	16	10	12	20		15	16		
							22		10

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									
PUMMRD-5877	Yfiler®								
		15	13,14	12	28	22	10	11	13
4	16	10	12	20		15	16		
							22		10
QCZKC2-5872	Yfiler® Plus								
	38,38	15	13,14	12	28	22	10	11	13
4	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
RMYJXF-5877	Yfiler® Plus								
	38	15	13,14	12	28	22	10	11	13
4	16	10	12	20	26	15	16	11	25
	37	11	-	21	16	20	22	-	10
TLX6NT-5872	Yfiler®								
		15	13,14	12	28	22	10	11	13
4	16	10	12	20		15	16		
							22		10
UG29EM-5877	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	13
4	16	10	12	20		15	16		25
		11	11	21	16		22	12	10
UNMTLE-5877	Yfiler® Plus								
	38,38	15	13,14	12	28	22	10	11	13
4	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
VG2ZAE-5872	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	13
4	16	10	12	20		15	16		25
		11	11	21	16		22	12	10
W2HW3B-5872	Yfiler® Plus								
	38,38	15	13,14	12	28	22	10	11	13
4	16	10	12	20	26	15	16	11	25
	37	11		21	16	20	22		10
W8CR3W-5877	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	13
4	16	10	12	20		15	16		25
		11	11	21	16		22	12	10
XT8VGA-5872	PowerPlex® Y 23								
		15	13,14	12	28	22	10	11	13
4	16	10	12	20		15	16		25
		11	11	21	16		22	12	10

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

YNYU8H-5872	Yfiler®								
		15	13,14	12	28	22	10	11	13
4	16	10	12	20		15	16		
							22		10

Additional DNA & PI Results

TABLE 4

Locus	WebCode-Test	Item 1	Item 2	Item 3	Item 3 PI	Item 4	Item 4 PI
D10S2325	HR4YFR-5872	8,12	10,12	8,9	0.001761	8,10	3.521127
D21S2055	HR4YFR-5872	19.1,25	19.1,33	19.1,24	0.000000	26,33	7.462687
D2S1360	HR4YFR-5872	22,26	26,29	22,31	0.002083	22,29	41.666667
D3S1744	HR4YFR-5872	17,19	17,19	18	0.001114	17,19	2.227171
D4S2366	HR4YFR-5872	9,11	11,13	9	0.000001	10,13	2.976190
D5S2500	HR4YFR-5872	11,14	11,15	11,14	0.001174	15,17	2.347418
D6S474	HR4YFR-5872	14,15	15,16	13,14	0.000088	14,16	1.754386
D7S1517	HR4YFR-5872	24,25	21,25	21,25	5.050505	21,24	5.050505
D8S1132	HR4YFR-5872	17,18	18,22	19,21	0.001880	20,22	3.759398
F13A01	2GLPX3-5872	6	6	6		6,12	1.4327
	AMZMJT-5872	6	6	6		6,12	1.432664756
	RXP3PL-5872	6	6	6	2.87	6,12	1.43
F13B	2GLPX3-5872	9,10	9,10	6,10		10	1.5731
	AMZMJT-5872	9,10	9,10	6,10		10	1.572911751
	RXP3PL-5872	9,10	9,10	6,10	0.79	10	1.57
FESFPS	2GLPX3-5872	8,10	10,11	10		10,11	1.2154
	AMZMJT-5872	8,10	10,11	10		10,11	1.215362178
	RXP3PL-5872	8,10	10,11	10		10,11	1.22
LPL	2GLPX3-5872	10,12	10,12	10,12		11,12	0.76324
	AMZMJT-5872	10,12	10,12	10,12		11,12	0.7632422531
	RXP3PL-5872	10,12	10,12	10,12	1.53	11,12	0.763
PENTA C	2GLPX3-5872	10,13	12,13	11,13		9,12	2.3753
	AMZMJT-5872	10,13	12,13	11,13		9,12	2.375296912
	RXP3PL-5872	10,13	12,13	11,13		9,12	2.38

Paternity DNA Statistics & Conclusions

TABLE 5

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
2GLPX3-5872	Item 4 - Alleged Father B	5.5667e+016	>0.99999	NIST-STRBASE
2MPTLF-5872	Item 4 - Alleged Father B	6.64 quadrillion	99.99%	Popstats NIST 2017
2NZV8E-5872	Item 4 - Alleged Father B	6.090E+012		NIST-STRBASE
2RG4VE-5872	Item 4 - Alleged Father B	9.69 E+11	99.9999%	FBI PopStats, NIST Population
2U9YK9-5877	Item 4 - Alleged Father B	8,9e+011	>99,999999999%	local/state database
42JZU2-5877	Item 4 - Alleged Father B	82,150,000,000,000	>99.999999999%	FBI PopStats
46JBQ2-5877	Item 4 - Alleged Father B	4.487E+12	99.999999999%	FBI PopStats
4P3DJF-5872	Item 4 - Alleged Father B	969,900,000,000	99.99999999896	NIST 2017
4Z3433-5872	Item 4 - Alleged Father B	21,245,849,637,091.8000	99.9999%	NIST-STRBASE
644C7C-5872	Item 4 - Alleged Father B	6.090E+012		NIST-STRBASE
64KMMW-5872	Item 4 - Alleged Father B	2.12458E+13	99.9999%	NIST-STRBASE
6HMU22-5872	Item 4 - Alleged Father B	624,583,943,555,424.0000	99.9999%	FBI PopStats
6L3NFD-5872	Item 4 - Alleged Father B	969,900,000,000	99.9999%	FBI PopStats, NIST Population
6PHW4D-5872	Item 4 - Alleged Father B	1.9210 e+14		NIST-STRBASE
6XRN7F-5872	Item 4 - Alleged Father B	2.8490E+13	>99.99%	FBI PopStats
74Z4F4-5877	Item 4 - Alleged Father B	2.42e16	99.99999999%	Base de datos especifica del laboratorio
76YA9A-5877	Item 4 - Alleged Father B	5,414,000,000,000	99.9999%	NIST-STRBASE
7EX8JX-5872	Item 4 - Alleged Father B	2.1246E+13	99.9999%	NIST-STRBASE
7WXUBW-5872	Item 4 - Alleged Father B	2.1245E+13	99.9999%	NIST-STRBASE

TABLE 5 - Paternity DNA Statistics & Conclusions

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
86M6XX-5877	Item 4 - Alleged Father B	13 quadrillion	99.99%	Laboratory Specific Database
9P7TJ9-5872	Item 4 - Alleged Father B	2.8490x10 ^{^13}	> 99.99%	FBI PopStats
9QLQB9-5872	Item 4 - Alleged Father B	>100 billion		NIST-STRBASE
A3ACU9-5872	Item 4 - Alleged Father B	969,900,000,000	99.9999%	FBI PopStats, NIST POPULATION
A8PKH9-5872	Item 4 - Alleged Father B	6.64 quadrillion	99.99%	Popstats NIST 2017
A9ZPVW-5872	Item 4 - Alleged Father B	21245849637091.8000	99.9999%	NIST-STRBASE
ADUJTX-5877	Item 4 - Alleged Father B	1.153e+024	99.9999%	NIST-STRBASE
AJF6MC-5872	Item 4 - Alleged Father B	1.4 billion	99.99%	NSDS(local/state database)
AKPLVA-5872	Item 4 - Alleged Father B	1.3240E+16	99.9999999999	FBI PopStats
AMZMJT-5872	Item 4 - Alleged Father B	55751045080000000	99,99999999999999	NIST-STRBASE
AVBP6U-5872	Item 4 - Alleged Father B	1.121045584e+016	99.99999999999999%	NIST-STRBASE
B77HQQ-5872	Item 4 - Alleged Father B	2.1245 E+13	99.9999%	NIST-STRBASE
CEWZ6Y-5872	Item 4 - Alleged Father B		99,9999999999682%	[Location Identifying Database]
D2ADAQ-5872	Item 4 - Alleged Father B	2.1271e+13	99.99999999%	NIST-STRBASE
D7F4DW-5872	Item 4 - Alleged Father B	2,37E+15	>99.999999%	Local Database
DDYACP-5872	Item 4 - Alleged Father B	230,000,000,000	99.99%	FBI PopStats, laboratory specific database
DER389-5872	Item 4 - Alleged Father B	130,000,000,000,000	99.9999%	NIST-STRBASE
E9MLBT-5872	Item 4 - Alleged Father B	9.7*10 ^{^13}	99.99%	FBI PopStats
EDHDJP-5872	Item 4 - Alleged Father B	53,290,000,000,000	99.9999999999%	FBI PopStats
EHRTTD-5872		7314728929153.95	99.99%	NIST-STRBASE

TABLE 5 - Paternity DNA Statistics & Conclusions

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
FBLJW6-5872	Item 4 - Alleged Father B	28.49 trillion	>99.99%	FBI PopStats
FF2RK6-5877	Item 4 - Alleged Father B	7.0790E15	>99.9999999999	FBI PopStats
FFFDWR-5877	Item 4 - Alleged Father B	3.8 e+13	99.999%	[Location Identifying Database]
FH8CBQ-5877	Item 4 - Alleged Father B	8.03e+010	99.999999999%	laboratory specific database
FP7YZ6-5877	Item 4 - Alleged Father B	450,000,000,000		NIST-STRBASE
FRCQF8-5872	Item 4 - Alleged Father B	1.4 billion	99.99%	Local Government Database
GPZ4WP-5872	Item 4 - Alleged Father B	2.1246E+13	99.9999	NIST-STRBASE
H742TT-5872	Item 4 - Alleged Father B	534 trillion	99.9%	NIST-STRBASE
HBJ9GT-5872	Item 4 - Alleged Father B	667,281,307.4	99.999999%	NIST-STRBASE
HEW9DJ-5872	Item 4 - Alleged Father B	1,556,702,930	99.99999994	ABI ID Direct PCR Amp. Kit manual
HJNFVT-5877	Item 4 - Alleged Father B	1.1210E+16	99.9999%	NIST-STRBASE
HMNRRT-5877	Item 4 - Alleged Father B		0.9999970104	Combined via Familias ver. 3.1.9.5
HR4YFR-5872	Item 4 - Alleged Father B	2.85131E21	99.999999999999999999	NIST-STRBASE, for HdPlex - local database
HWEA72-5872	Item 4 - Alleged Father B	6.64 quadrillion	99.99%	Popstats NIST 2017
JPATAL-5877	Item 4 - Alleged Father B	4.4870E+12	>99.9999999999	FBI PopStats
KPPCTX-5872	Item 4 - Alleged Father B	2.8490 x 10 [^] 13	>99.99%	FBI PopStats
KRH9GR-5872	Item 4 - Alleged Father B	534 Trillion	99.9%	NIST-STRBASE
KU4AZK-5877	Item 4 - Alleged Father B	1,556,703,000	99.99%	Life Technologies
L84BDL-5877	Item 4 - Alleged Father B	7,094356804* 10 [^] 14	0,9999999999	laboratory specific database

TABLE 5 - Paternity DNA Statistics & Conclusions

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
LHMMNY-5872	Item 4 - Alleged Father B	130 trillion	99.9999%	NIST-STRBASE
LKU6MU-5872	Item 4 - Alleged Father B	1.681E+13	Not calculated	Laboratory Specific Database
M8HUWJ-5872	Item 4 - Alleged Father B	21,245,849,637,091.8000	99.9999	NIST-STRBASE
MR8DNV-5872	Item 4 - Alleged Father B	969,900,000,000	99.9999%	FBI PopStats, NIST POPULATION
MW6WRF-5872	Item 4 - Alleged Father B	2.12458E+13	99.9999%	NIST-STRBASE
MZZK9M-5877	Item 4 - Alleged Father B	72500000000000	99.99999999%	FBI PopStats, NIST/Promega
NG4H6Q-5872	Item 4 - Alleged Father B	2 E13	99.9999999999	FBI PopStats
NJVDUK-5877	Item 4 - Alleged Father B	82,150,000,000,000	>99.9999999999	FBI PopStats
P2L9GR-5872	Item 4 - Alleged Father B	28.49 trillion	>99.99%	FBI PopStats
P4D67L-5872	Item 4 - Alleged Father B	534 trillion	99.9%	NIST-STRBASE
PUMMRD-5877	Item 4 - Alleged Father B	450 billion		NIST-STRBASE
QCZKC2-5872	Item 4 - Alleged Father B	1.21E13		NIST-STRBASE
QFL86P-5872	Item 4 - Alleged Father B	9.69E+11	99.9999	FBI PopStats, FBI Popstats NIST 2017 data set
QU4ZTV-5872	Item 4 - Alleged Father B	130 trillion Caucasian population	99.9999%	NIST-STRBASE
RABJ6T-5872	Item 4 - Alleged Father B	3.07 trillion	>99.9999999999	NIST-STRBASE
RMJXF-5877	Item 4 - Alleged Father B	901,320,649,600,113.0000	99.99999999 %	NIST-STRBASE
RXP3PL-5872	Item 4 - Alleged Father B	4.48E+15	>99.9999999999%	NIST-STRBASE
TLX6NT-5872	Item 4 - Alleged Father B	130,000,000,000,000	99.9999	NIST-STRBASE
TQEDCR-5872	Item 4 - Alleged Father B	1.8 x 10 ¹³	99.9999	NIST-STRBASE
U36LAL-5872	Item 4 - Alleged Father B	969,900,000,000	99.9999 %	FBI PopStats, NIST population

TABLE 5 - Paternity DNA Statistics & Conclusions

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
U4WHYE-5877	Item 4 - Alleged Father B	12.063 trillion	99.9999%	NIST-STRBASE
UDM33R-5872	Item 4 - Alleged Father B	130 trillion	99.9999	FBI PopStats
UG29EM-5877	Item 4 - Alleged Father B	1721796745314363	99,999999999%	STRidER
UNMTLE-5877	Item 4 - Alleged Father B	206521369237489000	99.99999999999999%	[Location Identifying Database]
VG2ZAE-5872	Item 4 - Alleged Father B	2.1E+13		NIST Caucasian
VKJKUA-5877	Item 4 - Alleged Father B	4.4870E+12	99.999999999%	FBI PopStats
W2HW3B-5872	Item 4 - Alleged Father B	6.3300E+24	>99.9999%	NIST-STRBASE
W4MPUN-5872	Item 4 - Alleged Father B	238 Trillion	99.9%	NIST-STRBASE
W8CR3W-5877	Item 4 - Alleged Father B	99,99999999 %	2,37e+16	STRider
XT8VGA-5872	Item 4 - Alleged Father B	6645558222424720.0	99.99999999999998%	NIST-STRBASE
YDQJ3L-5877	Item 4 - Alleged Father B	450,000,000,000		NIST-STRBASE
YNYU8H-5872	Item 4 - Alleged Father B	2764998604	99.99999996%	local database
YUBA2K-5872	Item 4 - Alleged Father B	5E13		FBI PopStats
ZVKEE9-5872	Item 4 - Alleged Father B			

Paternity DNA Statistics Response Summary		Participants: 92
<i>Which of the alleged fathers cannot be excluded as the biological parent of Item 2?</i>		
Responses	Item 3 - Alleged Father A	0
	Item 4 - Alleged Father B	91
	Inconclusive	0
	No Response	1

Kinship Likelihood Ratio Results

TABLE 6

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D1S1656	2GLPX3-5872	$2p+1/4p$	$p=17$	6.3962
	42JZU2-5877	$(1+2p)/4p$	$p=17$	6.3962
	4Z3433-5872	$((1/4)*(1+2*q))/q$	$q=17$	6.396
	64KMMW-5872	$(1+2p)/4p$	$p=17$	6.3962
	6HMU22-5872	$((1/8)*(1+6*q))/q$	$q=17$	3.6981
	74Z4F4-5877	$(1+2q)/4q$	17	6.3962
	7EX8JX-5872	$(1+2r)/4r$	$r=17$	6.3962
	7WXUBW-5872	$(1+2p)/4p$	$p=17$	6.3962
	9QLQB9-5872	$[Z1/2pa]+Z0$	$a = 17 \ b = 15$	6.396
	A9ZPVW-5872	$(1+2p)/4p$	$p=17$	6.396
	ADUJTX-5877			4.60
	AMZMJT-5872	Calculated infamiliassoftwareversion 3.2.8		6.396226415
	AVBP6U-5872	$((2q)+1)/4q$	$p=15 \ q=17$	6.396
	B77HQQ-5872	$(1+2p)/4p$	$p=17$	6.3962
	D7F4DW-5872	$(1+2p)/4p$	$p=17$	6.3962
	E9MLBT-5872	$1+2p/4p$	$p=17$	6.396
	FFFDWR-5877	$(1+4p)/8p$	$p=17$	3.45
	FP7YZ6-5877			4.613
	GPZ4WP-5872	$(1+2r)/4r$	$r=17$	6.3962
	HBJ9GT-5872	$(1+(1/2p))/2$	$p = 17$	6.396
	HJNFVT-5877	$(1+2p)/4p$	$p=17$	6.396
	HR4YFR-5872	$(1+2p)/4p$	$s=0.0424$	6.396226415
	M8HUWJ-5872	$(1/4)(1+2p)/p$	$p=17$	6.3962

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D1S1656	MW6WRF-5872	$(1+2p)/4p$	$p=17$	6.3962
	MZZK9M-5877	$(1+2r)/4r$	$r = 17$	6.396
	NJVDUK-5877	$(1+2p)/4p$	$p=17$	6.396
	PUMMRD-5877	*	*	4.613
	RXP3PL-5872	$(1+2p)/4p$	$p = 17$	6.395
	TQEDCR-5872	$(1+2p)/(4p)$	$p=17$	6.3962
	UNMTLE-5877	$(1+2p)/4p$	$p=17$	6.396
	VG2ZAE-5872	$(1+2p)/4p$	$p=17$	6.396
	W2HW3B-5872	$(1+2p)/4p$	$p=17$	6.3962
	W4MPUN-5872	$(1+2q)/(4q)$	$p=15 \ q=17$	6.396
	XT8VGA-5872	$(1+2*P[17])/(4*P[17])$	$p=17$	6.3962
	YDQJ3L-5877			4.613
	YNYU8H-5872	$(1+2p)/4p$	$p = 17$	6.3962

Statistical Analysis Summary of D1S1656
Likelihood Ratio Mode: 6.3962

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D2S1338	2GLPX3-5872	$4p+1/8p$	$p=20$	1.4835
	42JZU2-5877	$(1+4p)/8p$	$p=20$	1.4835
	4Z3433-5872	$((1/8)*(1+4*r))/r$	$r=20$	1.483
	64KMMW-5872	$(1+4p)/8p$	$p=20$	1.4834
	6HMU22-5872	$((1/16)*(1+12*r))/r$	$r=20$	1.2417
	74Z4F4-5877	$(1+4p)/8p$	20	1.4835
	7EX8JX-5872	$(1+4s)/8s$	$s=20$	1.4835
	7WXUBW-5872	$(1+4p)/8p$	$p=20$	1.4834
	9QLQB9-5872	$[Z1/4pa]+Z0$	$a = 20 \ b = 18 \ c = 17$	1.483
	A9ZPVW-5872	$(1+4p)/8p$	$p=20$	1.483
	ADUJTX-5877			1.43
	AMZMJT-5872	Calculated infamiliasoftwareversion 3.2.8		1.483477577
	AVBP6U-5872	$((4q)+1)/8q$	$p=17 \ q=20$	1.483
	B77HQQ-5872	$(1+4p)/8p$	$p=20$	1.4834
	D7F4DW-5872	$(1+4p)/8p$	$p=20$	1.4835
	E9MLBT-5872	$1+4p/8p$	$p=20$	1.483
	FFFDWR-5877	$(1+4p)/8p$	$p=20$	1.45
	FP7YZ6-5877			1.439
	GPZ4WP-5872	$(1+4s)/8s$	$s=20$	1.4835
	HBJ9GT-5872	$(1+(1/4p))/2$	$p = 20$	1.483
	HJNFVT-5877	$(1+4p)/8p$	$p=20$	1.483
	HR4YFR-5872	$(1+4p)/8p$	$p=0.1271$	1.483477577
	M8HUWJ-5872	$(1/8)(1+4p)/p$	$p=20$	1.4835
	MW6WRF-5872	$(1+4p)/8p$	$p=20$	1.4834

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D2S1338	MZZK9M-5877	$(1 + 4s)/8s$	s=20	1.484
	NJVDUK-5877	$(1 + 4p)/8p$	p=20	1.483
	PUMMRD-5877	*	*	1.439
	RXP3PL-5872	$(1 + 4p)/8p$	p = 20	1.483
	TQEDCR-5872	$(1 + 4p)/(8p)$	p=20	1.4835
	UNMTLE-5877	$(1 + 4p)/8p$	p=20	1.483
	VG2ZAE-5872	$(1 + 4p)/8p$	p=20	1.483
	W2HW3B-5872	$(1 + 4p)/8p$	p=20	1.4835
	W4MPUN-5872	$(1 + 4r)/(8r)$	p=17 q=18 r=20	1.483
	XT8VGA-5872	$(1 + 4 * P[20]) / (8 * P[20])$	p=20	1.4834
	YDQJ3L-5877			1.439
	YNYU8H-5872	$(1 + 4p)/8p$	p = 20	1.4835

Statistical Analysis Summary of D2S1338
Likelihood Ratio Mode: 1.483

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D2S441	2GLPX3-5872	$2p+1/4p$	$p=10$	1.2421
	42JZU2-5877	$(1+2p)/4p$	$p=10$	1.2421
	4Z3433-5872	$((1/4)*(1+2*p))/p$	$p=10$	1.242
	64KMMW-5872	$(1+2p)/4p$	$p=10$	1.2420
	6HMU22-5872	$((1/8)*(1+6*p))/p$	$p=10$	1.1210
	74Z4F4-5877	$(1+2q)/4q$	10	1.2420
	7EX8JX-5872	$(1+2p)/4p$	$p=10$	1.2421
	7WXUBW-5872	$(1+2p)/4p$	$p=10$	1.2420
	9QLQB9-5872	$[Z1/2pa]+Z0$	$a = 10 \ b = 11$	1.242
	A9ZPVW-5872	$(1+2p)/4p$	$p=10$	1.242
	ADUJTX-5877			1.21
	AMZMJT-5872	Calculated infamiliassoftwareversion 3.2.8		1.242059958
	AVBP6U-5872	$((2p)+1)/4p$	$p=10$	1.242
	B77HQQ-5872	$(1+2p)/4p$	$p=10$	1.2420
	D7F4DW-5872	$(1+2p)/4p$	$p=10$	1.2421
	E9MLBT-5872	$1+2p/4p$	$p=10$	1.242
	FFFDWR-5877	$(1+4p)/8p$	$p=10$	0.87
	FP7YZ6-5877			1.222
	GPZ4WP-5872	$(1+2p)/4p$	$p=10$	1.2420
	HBJ9GT-5872	$(1+(1/2p))/2$	$p = 10$	1.242
	HJNFVT-5877	$(1+2p)/4p$	$p=10$	1.242
	HR4YFR-5872	$(1+2p)/4p$	$s=0.3369$	1.242059958
	M8HUWJ-5872	$(1/4)(1+2p)/p$	$p=10$	1.2421
MW6WRF-5872	$(1+2p)/4p$	$p=10$	1.2420	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D2S441	MZZK9M-5877	$(1+2p)/4p$	$p=10$	1.242
	NJVDUK-5877	$(1+2p)/4p$	$p=10$	1.242
	PUMMRD-5877	*	*	1.222
	RXP3PL-5872	$(1+2p)/4p$	$p=10$	1.242
	TQEDCR-5872	$(1+2p)/(4p)$	$p=10$	1.2421
	UNMTLE-5877	$(1+2p)/4p$	$p=10$	1.242
	VG2ZAE-5872	$(1+2p)/4p$	$p=10$	1.242
	W2HW3B-5872	$(1+2p)/4p$	$p=10$	1.2421
	W4MPUN-5872	$(1+2p)/(4p)$	$p=10$ $q=11$	1.242
	XT8VGA-5872	$(1+2*P[10])/(4*P[10])$	$p=10$	1.2420
	YDQJ3L-5877			1.222
	YNYU8H-5872	$(1+2p)/4p$	$p=10$	1.2421

Statistical Analysis Summary of D2S441
Likelihood Ratio Mode: 1.242

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D3S1358	2GLPX3-5872	$2p+1/4p$	$p=15$	1.2764
	42JZU2-5877	$(1+2p)/4p$	$p=15$	1.2764
	4Z3433-5872	$((1/4)*(1+2*p))/p$	$p=15$	1.276
	64KMMW-5872	$(1+2p)/4p$	$p=15$	1.2763
	6HMU22-5872	$((1/8)*(1+6*p))/p$	$p=15$	1.1382
	74Z4F4-5877	$(1+2q)/4q$	15	1.2764
	7EX8JX-5872	$(1+2p)/4p$	$p=15$	1.2764
	7WXUBW-5872	$(1+2p)/4p$	$p=15$	1.2763
	9QLQB9-5872	$[Z1/2pa]+Z0$	$a = 15 \ b = 17$	1.276
	A9ZPVW-5872	$(1+2p)/4p$	$p=15$	1.276
	ADUJTX-5877			1.24
	AMZMJT-5872	Calculated infamiliasoftwareversion 3.2.8		1.276397516
	AVBP6U-5872	$((2p)+1)/4p$	$p=15 \ q=17$	1.276
	B77HQQ-5872	$(1+2p)/4p$	$p=15$	1.2763
	D7F4DW-5872	$(1+2p)/4p$	$p=15$	1.2764
	E9MLBT-5872	$1+2p/4p$	$p=15$	1.276
	FFFDWR-5877	$(1+4p)/8p$	$p=15$	0.89
	FP7YZ6-5877			1.254
	GPZ4WP-5872	$(1+2p)/4p$	$p=15$	1.2764
	HBJ9GT-5872	$(1+(1/2p))/2$	$p = 15$	1.276
	HJNFVT-5877	$(1+2p)/4p$	$p=15$	1.276
	HR4YFR-5872	$(1+2p)/4p$	$s=0.3220$	1.276397516
	M8HUWJ-5872	$(1/4)(1+2p)/p$	$p=15$	1.2764
MW6WRF-5872	$(1+2p)/4p$	$p=15$	1.2763	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D3S1358	MZZK9M-5877	$(1+2p)/4p$	$p=15$	1.276
	NJVDUK-5877	$(1+2p)/4p$	$p=15$	1.276
	PUMMRD-5877	*	*	1.254
	RXP3PL-5872	$(1+2p)/4p$	$p=15$	1.276
	TQEDCR-5872	$(1+2p)/(4p)$	$p=15$	1.2764
	UNMTLE-5877	$(1+2p)/4p$	$p=15$	1.276
	VG2ZAE-5872	$(1+2p)/4p$	$p=15$	1.276
	W2HW3B-5872	$(1+2p)/4p$	$p=15$	1.2764
	W4MPUN-5872	$(1+2p)/(4p)$	$p=15$ $q=17$	1.276
	XT8VGA-5872	$(1+2*P[15])/(4*P[15])$	$p=15$	1.2763
	YDQJ3L-5877			1.254
	YNYU8H-5872	$(1+2p)/4p$	$p=15$	1.2764

Statistical Analysis Summary of D3S1358
Likelihood Ratio Mode: 1.276

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D5S818	2GLPX3-5872	$4p+1/8p$	$p=12$	0.8687
	42JZU2-5877	$(1+4p)/8p$	$p=12$	0.86873
	4Z3433-5872	$((1/8)*(1+4*q))/q$	$q=12$	0.8687
	64KMMW-5872	$(1+4p)/8p$	$p=12$	0.8687
	6HMU22-5872	$((1/16)*(1+12*q))/q$	$q=12$	0.9344
	74Z4F4-5877	$(1+4p)/8p$	12	0.8687
	7EX8JX-5872	$(1+4u)/8u$	$u=12$	0.8687
	7WXUBW-5872	$(1+4p)/8p$	$p=12$	0.8687
	9QLQB9-5872	$[Z1/4pa]+Z0$	$a = 12 \ b = 7 \ c = 11$	0.8687
	A9ZPVW-5872	$(1+4p)/8p$	$p=12$	0.868
	ADUJTX-5877			0.86
	AMZMJT-5872	Calculated infamiliasoftwareversion 3.2.8		0.8687315634
	AVBP6U-5872	$((4q)+1)/8q$	$p=11 \ q=12$	0.869
	B77HQQ-5872	$(1+4p)/8p$	$p=12$	0.8687
	D7F4DW-5872	$(1+4p)/8p$	$p=12$	0.8687
	E9MLBT-5872	$1+4p/8p$	$p=12$	0.869
	FFFDWR-5877	$(1+4p)/8p$	$p=12$	0.87
	FP7YZ6-5877			0.8694
	GPZ4WP-5872	$(1+4u)/8u$	$u=12$	0.8687
	HBJ9GT-5872	$(1+(1/4p))/2$	$p = 12$	0.8687
	HJNFVT-5877	$(1+4p)/8p$	$p=12$	0.8687
	HR4YFR-5872	$(1+4p)/8p$	$p=0.3390$	0.868731563
	M8HUWJ-5872	$(1/8)(1+4p)/p$	$p=12$	0.8687
MW6WRF-5872	$(1+4p)/8p$	$p=12$	0.8687	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D5S818	MZZK9M-5877	$(1 + 4u)/8u$	$u = 12$	0.869
	NJVDUK-5877	$(1 + 4p)/8p$	$p = 12$	0.8687
	PUMMRD-5877	*	*	0.8694
	RXP3PL-5872	$(1 + 4p)/8p$	$p = 12$	0.869
	TQEDCR-5872	$(1 + 4p)/(8p)$	$p = 12$	0.8687
	UNMTLE-5877	$(1 + 4p)/8p$	$p = 12$	0.8687
	VG2ZAE-5872	$(1 + 4p)/8p$	$p = 12$	0.8687
	W2HW3B-5872	$(1 + 4p)/8p$	$p = 12$	0.86873
	W4MPUN-5872	$(1 + 4q)/(8q)$	$p = 11 \quad q = 12 \quad r = 7$	0.8687
	XT8VGA-5872	$(1 + 4 * P[12]) / (8 * P[12])$	$p = 12$	0.8687
	YDQJ3L-5877			0.8694
	YNYU8H-5872	$(1 + 4p)/8p$	$p = 12$	0.8687

Statistical Analysis Summary of D5S818
Likelihood Ratio Mode: 0.8687

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D7S820	2GLPX3-5872	1/2		0.5000
	42JZU2-5877	0.5		0.5
	4Z3433-5872	1/2		0.5000
	64KMMW-5872	1/2		0.5000
	6HMU22-5872	3/4		.75
	74Z4F4-5877	1/2		0.5
	7EX8JX-5872	1/2		0.5000
	7WXUBW-5872	1/2		0.5000
	9QLQB9-5872	Z0	a = 11 b = 8 c = 10	0.5000
	A9ZPVW-5872	1/2		0.5
	ADUJTX-5877			0.49
	AMZMJT-5872	Calculatedinfamiliassoftwareversion 3.2.8		0.5
	AVBP6U-5872	1/2	p=8 q=10	0.500
	B77HQQ-5872	1/2		0.5
	D7F4DW-5872	1/2		0.5
	E9MLBT-5872	0.5		0.5
	FP7YZ6-5877			0.5000
	GPZ4WP-5872	0.5	-	0.5000
	HBJ9GT-5872	0.5		0.5
	HJNFVT-5877	0.5		0.5
	HR4YFR-5872	1/2		0.5
	M8HUWJ-5872	1/2		0.4999
	MW6WRF-5872	1/2		0.5000
	MZZK9M-5877	1/2		0.5

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D7S820	NJVDUK-5877	1/2		0.5000
	PUMMRD-5877	*	*	0.5000
	RXP3PL-5872	1/2		0.500
	TQEDCR-5872	2/4		0.5000
	UNMTLE-5877	0.5		0.5000
	VG2ZAE-5872	1/2		0.5
	W2HW3B-5872	1/2		0.5
	W4MPUN-5872	1/2		p=10 q=11 r=8 0.5000
	XT8VGA-5872	0.5		0.5
	YDQJ3L-5877			0.5000
	YNYU8H-5872	2/4		0.5

Statistical Analysis Summary of D7S820
Likelihood Ratio Mode: 0.5

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D8S1179	2GLPX3-5872	$4p+1/8p$	$p=15$	1.4675
	42JZU2-5877	$(1+4p)/8p$	$p=15$	1.4675
	4Z3433-5872	$((1/8)*(1+4*r))/r$	$r=15$	1.467
	64KMMW-5872	$(1+4p)/8p$	$p=15$	1.4674
	6HMU22-5872	$((1/16)*(1+12*r))/r$	$r=15$	1.2337
	74Z4F4-5877	$(1+4p)/8p$	15	1.4675
	7EX8JX-5872	$(1+4t)/8t$	$t=15$	1.4675
	7WXUBW-5872	$(1+4p)/8p$	$p=15$	1.4674
	9QLQB9-5872	$[Z1/4pa]+Z0$	$a = 15 \ b = 11 \ c = 13$	1.467
	A9ZPVW-5872	$(1+4p)/8p$	$p=15$	1.467
	ADUJTX-5877			1.42
	AMZMJT-5872	Calculated infamiliassoftware version 3.2.8		1.46749226
	AVBP6U-5872	$((4q)+1)/8q$	$p=13 \ q=15$	1.467
	B77HQQ-5872	$(1+4p)/8p$	$p=15$	1.4674
	D7F4DW-5872	$(1+4p)/8p$	$p=15$	1.4675
	E9MLBT-5872	$1+4p/8p$	$p=15$	1.467
	FFFDWR-5877	$(1+4p)/8p$	$p=15$	1.47
	FP7YZ6-5877			1.425
	GPZ4WP-5872	$(1+4t)/8t$	$t=15$	1.4675
	HBJ9GT-5872	$(1+(1/4p))/2$	$p = 15$	1.467
	HJNFVT-5877	$(1+4p)/8p$	$p=15$	1.467
	HR4YFR-5872	$(1+4p)/8p$	$p=0.1292$	1.46749226
	M8HUWJ-5872	$(1/8)(1+4p)/p$	$p=15$	1.4675
MW6WRF-5872	$(1+4p)/8p$	$p=15$	1.4674	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D8S1179	MZZK9M-5877	$(1 + 4t)/8t$	t=15	1.468
	NJVDUK-5877	$(1 + 4p)/8p$	p=15	1.467
	PUMMRD-5877	*	*	1.425
	RXP3PL-5872	$(1 + 4p)/8p$	p = 15	1.467
	TQEDCR-5872	$(1 + 4p)/(8p)$	p=15	1.4675
	UNMTLE-5877	$(1 + 4p)/8p$	p=15	1.467
	VG2ZAE-5872	$(1 + 4p)/8p$	p=15	1.467
	W2HW3B-5872	$(1 + 4p)/8p$	p=15	1.4675
	W4MPUN-5872	$(1 + 4r)/(8r)$	p=11 q=13 r=15	1.467
	XT8VGA-5872	$(1 + 4 * P[15]) / (8 * P[15])$	p=15	1.4674
	YDQJ3L-5877			1.425
	YNYU8H-5872	$(1 + 4p)/8p$	p = 15	1.4675

Statistical Analysis Summary of D8S1179
Likelihood Ratio Mode: 1.467

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D10S1248	2GLPX3-5872	$p+q+4pq/8pq$	$p=13 \ q=15$	1.5473
	42JZU2-5877	$(p+q+4pq)/8pq$	$p=13 \ q=15$	1.5473
	4Z3433-5872	$((1/8)*(p+q+4*p*q))/p*q$	$p=13 \ q=15$	1.547
	64KMMW-5872	$(p+q+4pq)/8pq$	$p=13 \ q=15$	1.5472
	6HMU22-5872	$((1/16)*(p+q+12*p*q))/p*q$	$p=13 \ q=15$	1.2736
	74Z4F4-5877	$(p+q+4pq)/8pq$	13,15	1.5473
	7EX8JX-5872	$(p+r+4pr)/8pr$	$p=13 \ r=15$	1.5473
	7WXUBW-5872	$(p+q+4pq)/8pq$	$p=13 \ q=15$	1.5472
	9QLQB9-5872	$[(2Z2+Z1(pa+pb))/4pa*pb]+Z0$	$a = 13 \ b = 15$	1.547
	A9ZPVW-5872	$(p+q+4pq)/8pq$	$p=13 \ q=15$	1.547
	ADUJTX-5877			1.52
	AMZMJT-5872	Calculated infamiliassoftwareversion 3.2.8		1.547273747
	AVBP6U-5872	$(p+q+(4pq))/8pq$	$p=13 \ q=15$	1.547
	B77HQQ-5872	$(p+q+4pq)/8pq$	$p=13 \ q=15$	1.5472
	D7F4DW-5872	$(p+q+4pq)/8pq$	$p=13 \ q=15$	1.5473
	E9MLBT-5872	$p+q+4pq/8pq$	$p=13 \ q=15$	1.547
	FFFDWR-5877	$(p+q+4pq)/8pq$	$p=13 \ q=15$	1.55
	FP7YZ6-5877			1.536
	GPZ4WP-5872	$(p+r+4pr)/8pr$	$p=13 \ r=15$	1.5473
	HBJ9GT-5872	$(1+(1/4p)+(1/4q))/2$	$p = 13 \ q = 15$	1.547
	HJNFVT-5877	$(p+q+4pq)/8pq$	$p=13 \ q=15$	1.547
	HR4YFR-5872	$(p+q+4pq)/8pq$	$p=0.2733 \ q=0.2119$	1.547273747
	M8HUWJ-5872	$(1/8)(p+q+4pq)/pq$	$p=13 \ q=15$	1.5473
	MW6WRF-5872	$(p+q+4pq)/8pq$	$p=13 \ q=15$	1.5472

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D10S1248	MZZK9M-5877	$(p+r+4pr)/8pr$	$p=13 \ r=15$	1.547
	NJVDUK-5877	$(p+q+4pq)/8pq$	$p=13 \ q=15$	1.547
	PUMMRD-5877	*	*	1.536
	RXP3PL-5872	$(p+q+4pq)/8pq$	$p = 13 \ q = 15$	1.547
	TQEDCR-5872	$(p+q+4pq)/(8pq)$	$p=13 \ q=15$	1.5473
	UNMTLE-5877	$(p+q+4pq)/8pq$	$p=13 \ q=15$	1.547
	VG2ZAE-5872	$(p+q+4pq)/8pq$	$p=13 \ q=15$	1.547
	W2HW3B-5872	$(p+q+4pq)/8pq$	$p=13 \ q=15$	1.5473
	W4MPUN-5872	$(p+q+4pq)/(8pq)$	$p=13 \ q=15$	1.547
	XT8VGA-5872	$(P[13]+P[15]+(4*P[13]*P[15]))/(8*P[13]*P[15])$	$p=13 \ p=15$	1.5472
	YDQJ3L-5877			1.536
	YNYU8H-5872	$(p+q+4pq)/8pq$	$p = 13 \ q = 15$	1.5473

Statistical Analysis Summary of D10S1248
Likelihood Ratio Mode: 1.547

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D12S391	2GLPX3-5872	1/2		0.5000
	42JZU2-5877	0.5		0.5
	4Z3433-5872	1/2		0.5000
	64KMMW-5872	1/2		0.50000
	6HMU22-5872	3/4		.75
	74Z4F4-5877	1/2		0.5
	7EX8JX-5872	1/2		0.5000
	7WXUBW-5872	1/2		0.5000
	9QLQB9-5872	Z0	a = 19 b = 22 c = 18 d=20	0.5000
	A9ZPVW-5872	1/2		0.5
	ADUJTX-5877			0.49
	AMZMJT-5872	Calculatedinfamiliassoftwareversion 3.2.8		0.5
	AVBP6U-5872	1/2	p= 18 q=20	0.500
	B77HQQ-5872	1/2		0.5
	D7F4DW-5872	1/2		0.5
	E9MLBT-5872	0.5		0.5
	FP7YZ6-5877			0.5000
	GPZ4WP-5872	0.5	-	0.5000
	HJNFVT-5877	0.5		0.5
	HR4YFR-5872	1/2		0.5
	M8HUWJ-5872	1/2		0.5000
	MW6WRF-5872	1/2		0.5000
	MZZK9M-5877	1/2		0.5
	NJVDUK-5877	1/2		0.5000

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D12S391	PUMMRD-5877	*	*	0.5000
	RXP3PL-5872	1/2		0.500
	UNMTLE-5877	0.5		0.5000
	VG2ZAE-5872	1/2		0.5
	W2HW3B-5872	1/2		0.5
	W4MPUN-5872	1/2	p=18 q=19 r=20 s=22	0.5000
	XT8VGA-5872	0.5		0.5
	YDQJ3L-5877			0.5000
	YNYU8H-5872	2/4		0.5

Statistical Analysis Summary of D12S391
Likelihood Ratio Mode: 0.5

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D13S317	2GLPX3-5872	$4p+1/8p$	$p=11$	1.0729
	42JZU2-5877	$(1+4p)/8p$	$p=11$	1.0729
	4Z3433-5872	$((1/8)*(1+4*p))/p$	$p=11$	1.073
	64KMMW-5872	$(1+4p)/8p$	$p=11$	1.0728
	6HMU22-5872	$((1/16)*(1+12*p))/p$	$p=11$	1.0364
	74Z4F4-5877	$(1+4p)/8p$	11	1.0729
	7EX8JX-5872	$(1+4s)/8s$	$s=11$	1.0729
	7WXUBW-5872	$(1+4p)/8p$	$p=11$	1.0728
	9QLQB9-5872	$[Z1/4pa]+Z0$	$a = 11 \ b = 8 \ c = 12$	1.073
	A9ZPVW-5872	$(1+4p)/8p$	$p=11$	1.072
	ADUJTX-5877			1.06
	AMZMJT-5872	Calculated infamiliasoftwareversion 3.2.8		1.072868928
	AVBP6U-5872	$((4p)+1)/8p$	$p=11 \ q=12$	1.073
	B77HQQ-5872	$(1+4p)/8p$	$p=11$	1.0728
	D7F4DW-5872	$(1+4p)/8p$	$p=11$	1.0729
	E9MLBT-5872	$1+4p/8p$	$p=11$	1.073
	FFFDWR-5877	$(1+4p)/8p$	$p=11$	1.07
	FP7YZ6-5877			1.065
	GPZ4WP-5872	$(1+4s)/8s$	$s=11$	1.0729
	HBJ9GT-5872	$(1+(1/4p))/2$	$p = 11$	1.072
	HJNFVT-5877	$(1+4p)/8p$	$p=11$	1.073
	HR4YFR-5872	$(1+4p)/8p$	$p=0.2182$	1.072868928
	M8HUWJ-5872	$(1/8)(1+4p)/p$	$p=11$	1.0729
MW6WRF-5872	$(1+4p)/8p$	$p=11$	1.0728	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D13S317	MZZK9M-5877	$(1 + 4s)/8s$	s=11	1.073
	NJVDUK-5877	$(1 + 4p)/8p$	p=11	1.073
	PUMMRD-5877	*	*	1.065
	RXP3PL-5872	$(1 + 4p)/8p$	p = 11	1.073
	TQEDCR-5872	$(1 + 4p)/(8p)$	p=11	1.0729
	UNMTLE-5877	$(1 + 4p)/8p$	p=11	1.073
	VG2ZAE-5872	$(1 + 4p)/8p$	p=11	1.073
	W2HW3B-5872	$(1 + 4p)/8p$	p=11	1.0729
	W4MPUN-5872	$(1 + 4p)/(8p)$	p=11 q=12 r=8	1.073
	XT8VGA-5872	$(1 + 4 * P[11]) / (8 * P[11])$	p=11	1.0728
	YDQJ3L-5877			1.065
	YNYU8H-5872	$(1 + 4p)/8p$	p = 11	1.0729

Statistical Analysis Summary of D13S317
Likelihood Ratio Mode: 1.073

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D16S539	2GLPX3-5872	$2p+1/4p$	$p=12$	1.4009
	42JZU2-5877	$(1+2p)/4p$	$p=12$	1.4009
	4Z3433-5872	$((1/4)*(1+2*p))/p$	$p=12$	1.401
	64KMMW-5872	$(1+2p)/4p$	$p=12$	1.4009
	6HMU22-5872	$((1/8)*(1+6*p))/p$	$p=12$	1.2005
	74Z4F4-5877	$(1+2q)/4q$	12	1.4009
	7EX8JX-5872	$(1+2p)/4p$	$p=12$	1.4009
	7WXUBW-5872	$(1+2p)/4p$	$p=12$	1.4009
	9QLQB9-5872	$[Z1/2pa]+Z0$	$a = 12 \ b = 13$	1.401
	A9ZPVW-5872	$(1+2p)/4p$	$p=12$	1.400
	ADUJTX-5877			1.36
	AMZMJT-5872	Calculated infamiliassoftwareversion 3.2.8		1.400900901
	AVBP6U-5872	$((2p)+1)/4p$	$p=12 \ q=13$	1.401
	B77HQQ-5872	$(1+2p)/4p$	$p=12$	1.4009
	D7F4DW-5872	$(1+2p)/4p$	$p=12$	1.4009
	E9MLBT-5872	$1+2p/4p$	$p=12$	1.401
	FFFDWR-5877	$(1+4p)/8p$	$p=12$	0.95
	FP7YZ6-5877			1.366
	GPZ4WP-5872	$(1+2p)/4p$	$p=12$	1.4009
	HBJ9GT-5872	$(1+(1/2p))/2$	$p = 12$	1.400
	HJNFVT-5877	$(1+2p)/4p$	$p=12$	1.401
	HR4YFR-5872	$(1+2p)/4p$	$s=0.2775$	1.400900901
	M8HUWJ-5872	$(1/4)(1+2p)/p$	$p=12$	1.4009
MW6WRF-5872	$(1+2p)/4p$	$p=12$	1.4009	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D16S539	MZZK9M-5877	$(1+2p)/4p$	$p=12$	1.401
	NJVDUK-5877	$(1+2p)/4p$	$p=12$	1.401
	PUMMRD-5877	*	*	1.366
	RXP3PL-5872	$(1+2p)/4p$	$p = 12$	1.401
	TQEDCR-5872	$(1+2p)/(4p)$	$p=12$	1.4009
	UNMTLE-5877	$(1+2p)/4p$	$p=12$	1.401
	VG2ZAE-5872	$(1+2p)/4p$	$p=12$	1.401
	W2HW3B-5872	$(1+2p)/4p$	$p=12$	1.4009
	W4MPUN-5872	$(1+2p)/(4p)$	$p=12$ $q=13$	1.401
	XT8VGA-5872	$(1+2*P[12])/(4*P[12])$	$p=12$	1.4009
	YDQJ3L-5877			1.366
	YNYU8H-5872	$(1+2p)/4p$	$p = 12$	1.4009

Statistical Analysis Summary of D16S539
Likelihood Ratio Mode: 1.4009

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D18S51	2GLPX3-5872	$4p+1/8p$	$p=14$	1.2764
	42JZU2-5877	$(1+4p)/8p$	$p=14$	1.2764
	4Z3433-5872	$((1/8)*(1+4*p))/p$	$p=14$	1.276
	64KMMW-5872	$(1+4p)/8p$	$p=14$	1.2763
	6HMU22-5872	$((1/16)*(1+12*p))/p$	$p=14$	1.1382
	74Z4F4-5877	$(1+4p)/8p$	14	1.2764
	7EX8JX-5872	$(1+4p)/8p$	$p=14$	1.2764
	7WXUBW-5872	$(1+4p)/8p$	$p=14$	1.2763
	9QLQB9-5872	$[Z1/4pa]+Z0$	$a = 14 \ b = 15 \ c = 19$	1.276
	A9ZPVW-5872	$(1+4p)/8p$	$p=14$	1.276
	ADUJTX-5877			1.25
	AMZMJT-5872	Calculated in familiassoftware version 3.2.8		1.276397516
	AVBP6U-5872	$((4p)+1)/8p$	$p=14 \ q=19$	1.276
	B77HQQ-5872	$(1+4p)/8p$	$p=14$	1.2763
	D7F4DW-5872	$(1+4p)/8p$	$p=14$	1.2764
	E9MLBT-5872	$1+4p/8p$	$p=14$	1.276
	FFFDWR-5877	$(1+4p)/8p$	$p=14$	1.28
	FP7YZ6-5877			1.254
	GPZ4WP-5872	$(1+4p)/8p$	$p=14$	1.2764
	HBJ9GT-5872	$(1+(1/4p))/2$	$p = 14$	1.276
	HJNFVT-5877	$(1+4p)/8p$	$p=14$	1.276
	HR4YFR-5872	$(1+4p)/8p$	$p=0.1610$	1.276397516
	M8HUWJ-5872	$(1/8)(1+4p)/p$	$p=14$	1.2764
	MW6WRF-5872	$(1+4p)/8p$	$p=14$	1.2763

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D18S51	MZZK9M-5877	$(1 + 4p)/8p$	$p = 14$	1.276
	NJVDUK-5877	$(1 + 4p)/8p$	$p = 14$	1.276
	PUMMRD-5877	*	*	1.254
	RXP3PL-5872	$(1 + 4p)/8p$	$p = 14$	1.276
	TQEDCR-5872	$(1 + 4p)/(8p)$	$p = 14$	1.2764
	UNMTLE-5877	$(1 + 4p)/8p$	$p = 14$	1.276
	VG2ZAE-5872	$(1 + 4p)/8p$	$p = 14$	1.276
	W2HW3B-5872	$(1 + 4p)/8p$	$p = 14$	1.2764
	W4MPUN-5872	$(1 + 4p)/(8p)$	$p = 14$ $q = 15$ $r = 19$	1.276
	XT8VGA-5872	$(1 + 4 * P[14]) / (8 * P[14])$	$p = 14$	1.2763
	YDQJ3L-5877			1.254
	YNYU8H-5872	$(1 + 4p)/8p$	$p = 14$	1.2764

Statistical Analysis Summary of D18S51
Likelihood Ratio Mode: 1.276

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D19S433	2GLPX3-5872	$p+1/2p$	$p=14$	1.9132
	42JZU2-5877	$(1+p)/2p$	$p=14$	1.9132
	4Z3433-5872	$((1/4)*(2+2*p))/p$	$p=14$	1.913
	64KMMW-5872	$(1+p)/2p$	$p=14$	1.9132
	6HMU22-5872	$((1/16)*(4+12*p))/p$	$p=14$	1.4566
	74Z4F4-5877	$2p(1+p)/(2p)^2$	14	1.9132
	7EX8JX-5872	$(1+p)/2p$	$p=14$	1.9132
	7WXUBW-5872	$(1+p)/2p$	$p=14$	1.9132
	9QLQB9-5872	$[Z2/pa*pa]+[Z1/pa]+Z0$	$a=14$	1.913
	A9ZPVW-5872	$(2+2p)/4p$	$p=14$	1.913
	ADUJTX-5877			1.83
	AMZMJT-5872	Calculated infamiliassoftwareversion 3.2.8		1.913227812
	AVBP6U-5872	$(p+1)/2p$	$p=14$	1.913
	B77HQQ-5872	$(1+p)/2p$	$p=14$	1.9132
	D7F4DW-5872	$(1+p)/2p$	$p=14$	1.9132
	E9MLBT-5872	$1+p/2p$	$p=14$	1.913
	FFFDWR-5877	$(p+q+4pq)/8pq$	$p=14 q=14$	1.2
	FP7YZ6-5877			1.843
	GPZ4WP-5872	$(1+p)/2p$	$p=14$	1.9132
	HBJ9GT-5872	$(1+(1/p))/2$	$p=14$	1.913
	HJNFVT-5877	$(1+p)/2p$	$p=14$	1.913
	HR4YFR-5872	$(1+p)/2p$	$u=0.3538$	1.913227812
	M8HUWJ-5872	$(1/4)(1+2p)/p$	$p=14$	1.9132
MW6WRF-5872	$(1+p)/2p$	$p=14$	1.9132	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D19S433	MZZK9M-5877	$(1+p)/2p$	$p=14$	1.913
	NJVDUK-5877	$(1+p)/2p$	$p=14$	1.913
	PUMMRD-5877	*	*	1.843
	RXP3PL-5872	$(1+p)/2p$	$p=14$	1.913
	TQEDCR-5872	$(2p(1+p))/(4pp)$	$p=14$	1.9132
	UNMTLE-5877	$(1+p)/2p$	$p=14$	1.913
	VG2ZAE-5872	$(1+p)/2p$	$p=14$	1.913
	W2HW3B-5872	$(1+p)/2p$	$p=14$	1.9132
	W4MPUN-5872	$(2+2p)/(4p)$	$p=14$	1.913
	XT8VGA-5872	$(1+P[14])/(2*P[14])$	$p=14$	1.9132
	YDQJ3L-5877			1.843
	YNYU8H-5872	$[2p(1+p)]/2p^2$	$p=14$	1.9132

Statistical Analysis Summary of D19S433
Likelihood Ratio Mode: 1.9132

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D21S11	2GLPX3-5872	$4p+1/8p$	$p=29$	1.1021
	42JZU2-5877	$(1+4p)/8p$	$p=29$	1.1021
	4Z3433-5872	$((1/8)*(1+4*p))/p$	$p=29$	1.102
	64KMMW-5872	$(1+4p)/8p$	$p=29$	1.1021
	6HMU22-5872	$((1/16)*(1+12*p))/p$	$p=29$	1.0511
	74Z4F4-5877	$(1+4p)/8p$	29	1.1021
	7EX8JX-5872	$(1+4p)/8p$	$p=29$	1.1021
	7WXUBW-5872	$(1+4p)/8p$	$p=29$	1.1021
	9QLQB9-5872	$[Z1/4pa]+Z0$	$a = 29 \ b = 31 \ c = 32$	1.102
	A9ZPVW-5872	$(1+4p)/8p$	$p=29$	1.102
	ADUJTX-5877			1.09
	AMZMJT-5872	Calculated infamiliasoftwareversion 3.2.8		1.102119461
	AVBP6U-5872	$((4p)+1)/8p$	$p=29 \ q=32$	1.102
	B77HQQ-5872	$(1+4p)/8p$	$p=29$	1.1021
	D7F4DW-5872	$(1+4p)/8p$	$p=29$	1.1021
	E9MLBT-5872	$1+4p/8p$	$p=29$	1.102
	FFFDWR-5877	$(1+4p)/8p$	$p=29$	1.1
	FP7YZ6-5877			1.092
	GPZ4WP-5872	$(1+4p)/8p$	$p=29$	1.1021
	HBJ9GT-5872	$(1+(1/4p))/2$	$p = 29$	1.102
	HJNFVT-5877	$(1+4p)/8p$	$p=29$	1.102
	HR4YFR-5872	$(1+4p)/8p$	$p=0.2076$	1.102119461
	M8HUWJ-5872	$(1/8)(1+4p)/p$	$p=29$	1.1021
	MW6WRF-5872	$(1+4p)/8p$	$p=29$	1.1021

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D21S11	MZZK9M-5877	$(1 + 4p)/8p$	$p=29$	1.102
	NJVDUK-5877	$(1 + 4p)/8p$	$p=29$	1.102
	PUMMRD-5877	*	*	1.092
	RXP3PL-5872	$(1 + 4p)/8p$	$p = 29$	1.102
	TQEDCR-5872	$(1 + 4p)/(8p)$	$p=29$	1.1021
	UNMTLE-5877	$(1 + 4p)/8p$	$p=29$	1.102
	VG2ZAE-5872	$(1 + 4p)/8p$	$p=29$	1.102
	W2HW3B-5872	$(1 + 4p)/8p$	$p=29$	1.1021
	W4MPUN-5872	$(1 + 4p)/(8p)$	$p=29$ $q=31$ $r=32$	1.102
	XT8VGA-5872	$(1 + 4 * P[29]) / (8 * P[29])$	$p=29$	1.1021
	YDQJ3L-5877			1.092
	YNYU8H-5872	$(1 + 4p)/8p$	$p = 29$	1.1021

Statistical Analysis Summary of D21S11
Likelihood Ratio Mode: 1.1021

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D22S1045	2GLPX3-5872	$2p+1/4p$	$p=16$	1.2151
	42JZU2-5877	$(1+2p)/4p$	$p=16$	1.2151
	4Z3433-5872	$((1/4)*(1+2*p))/p$	$p=16$	1.215
	64KMMW-5872	$(1+2p)/4p$	$p=16$	1.2151
	6HMU22-5872	$((1/8)*(1+6*p))/p$	$p=16$	1.1076
	74Z4F4-5877	$(1+2q)/4q$	16	1.2151
	7EX8JX-5872	$(1+2p)/4p$	$p=16$	1.2151
	7WXUBW-5872	$(1+2p)/4p$	$p=16$	1.2151
	9QLQB9-5872	$[Z1/2pa]+Z0$	$a = 16 \ b = 18$	1.215
	A9ZPVW-5872	$(1+2p)/4p$	$p=16$	1.215
	ADUJTX-5877			1.22
	AMZMJT-5872	Calculated in familiassoftware version 3.2.8		1.215102975
	AVBP6U-5872	$((2p)+1)/4p$	$p=16 \ q=18$	1.215
	B77HQQ-5872	$(1+2p)/4p$	$p=16$	1.2151
	D7F4DW-5872	$(1+2p)/4p$	$p=16$	1.2151
	E9MLBT-5872	$1+2p/4p$	$p=16$	1.215
	FFFDWR-5877	$(1+4p)/8p$	$p=16$	0.86
	FP7YZ6-5877			1.198
	GPZ4WP-5872	$(1+2p)/4p$	$p=16$	1.2151
	HBJ9GT-5872	$(1+(1/2p))/2$	$p = 16$	1.215
	HJNFVT-5877	$(1+2p)/4p$	$p=16$	1.215
	HR4YFR-5872	$(1+2p)/4p$	$s=3496$	1.215102975
	M8HUWJ-5872	$(1/4)(1+2p)/p$	$p=16$	1.2151
	MW6WRF-5872	$(1+2p)/4p$	$p=16$	1.2151

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D22S1045	MZZK9M-5877	$(1+2p)/4p$	$p=16$	1.215
	NJVDUK-5877	$(1+2p)/4p$	$p=16$	1.215
	PUMMRD-5877	*	*	1.198
	RXP3PL-5872	$(1+2p)/4p$	$p=16$	1.215
	TQEDCR-5872	$(1+2p)/(4p)$	$p=16$	1.2151
	UNMTLE-5877	$(1+2p)/4p$	$p=16$	1.215
	VG2ZAE-5872	$(1+2p)/4p$	$p=16$	1.215
	W2HW3B-5872	$(1+2p)/4p$	$p=16$	1.2151
	W4MPUN-5872	$(1+2p)/(4p)$	$p=16$ $q=18$	1.215
	XT8VGA-5872	$(1+2*P[16])/(4*P[16])$	$p=16$	1.2151
	YDQJ3L-5877			1.198
	YNYU8H-5872	$(1+2p)/4p$	$p=16$	1.2151

Statistical Analysis Summary of D22S1045
Likelihood Ratio Mode: 1.2151

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
CSF1PO	2GLPX3-5872	$4p+1/8p$	$p=12$	0.8333
	42JZU2-5877	$(1+4p)/8p$	$p=12$	0.83333
	4Z3433-5872	$((1/8)*(1+4*q))/q$	$q=12$	0.8333
	64KMMW-5872	$(1+4p)/8p$	$p=12$	0.8333
	6HMU22-5872	$((1/16)*(1+12*q))/q$	$q=12$	0.9167
	74Z4F4-5877	$(1+4p)/8p$	12	0.8333
	7EX8JX-5872	$(1+4q)/8q$	$q=12$	0.8333
	7WXUBW-5872	$(1+4p)/8p$	$p=12$	0.8333
	9QLQB9-5872	$[Z1/4pa]+Z0$	$a = 12 \ b = 11 \ c = 13$	0.833
	A9ZPVW-5872	$(1+4p)/8p$	$p=12$	0.833
	ADUJTX-5877			0.83
	AMZMJT-5872	Calculated in familiassoftware version 3.2.8		0.8333333333
	AVBP6U-5872	$((4p)+1)/8p$	$p=12 \ q=13$	0.833
	B77HQQ-5872	$(1+4p)/8p$	$p=12$	0.8333
	D7F4DW-5872	$(1+4p)/8p$	$p=12$	0.8333
	E9MLBT-5872	$1+4p/8p$	$p=12$	0.833
	FFFDWR-5877	$(1+4p)/8p$	$p=12$	0.83
	FP7YZ6-5877			0.8349
	GPZ4WP-5872	$(1+4q)/8q$	$q=12$	0.8333
	HBJ9GT-5872	$(1+(1/4p))/2$	$p = 12$	0.8333
	HJNFVT-5877	$(1+4p)/8p$	$p=12$	0.8333
	HR4YFR-5872	$(1+4p)/8p$	$p=0.3750$	0.833333333
	M8HUWJ-5872	$(1/8)(1+4p)/p$	$p=12$	0.8333
	MW6WRF-5872	$(1+4p)/8p$	$p=12$	0.8333

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
CSF1PO	MZZK9M-5877	$(1 + 4q)/8q$	q=12	0.833
	NJVDUK-5877	$(1 + 4p)/8p$	p=12	0.8333
	PUMMRD-5877	*	*	0.8349
	RXP3PL-5872	$(1 + 4p)/8p$	p = 12	0.833
	TQEDCR-5872	$(1 + 4p)/(8p)$	p=12	0.8333
	UNMTLE-5877	$(1 + 4p)/8p$	p=12	0.8333
	VG2ZAE-5872	$(1 + 4p)/8p$	p=12	0.8333
	W2HW3B-5872	$(1 + 4p)/8p$	p=12	0.83333
	W4MPUN-5872	$(1 + 4q)/(8q)$	p=11 q=12 r=13	0.8333
	XT8VGA-5872	$(1 + 4 * P[12]) / (8 * P[12])$	p=12	0.8333
	YDQJ3L-5877			0.8349
	YNYU8H-5872	$(1 + 4p)/8p$	p = 12	0.8333

Statistical Analysis Summary of CSF1PO
Likelihood Ratio Mode: 0.8333

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
FGA	2GLPX3-5872	$4p+1/8p$	$p=21$	1.3197
	42JZU2-5877	$(1+4p)/8p$	$p=21$	1.3197
	4Z3433-5872	$((1/8)*(1+4*p))/p$	$p=21$	1.320
	64KMMW-5872	$(1+4p)/8p$	$p=21$	1.3196
	6HMU22-5872	$((1/16)*(1+12*p))/p$	$p=21$	1.1598
	74Z4F4-5877	$(1+4p)/8p$	21	1.3197
	7EX8JX-5872	$(1+4p)/8p$	$p=21$	1.3197
	7WXUBW-5872	$(1+4p)/8p$	$p=21$	1.3196
	9QLQB9-5872	$[Z1/4pa]+Z0$	$a = 21 \ b = 25 \ c = 22$	1.320
	A9ZPVW-5872	$(1+4p)/8p$	$p=21$	1.319
	ADUJTX-5877			1.28
	AMZMJT-5872	Calculated in familiassoftware version 3.2.8		1.319672131
	AVBP6U-5872	$((4p)+1)/8p$	$p=21 \ q=22$	1.320
	B77HQQ-5872	$(1+4p)/8p$	$p=21$	1.3196
	D7F4DW-5872	$(1+4p)/8p$	$p=21$	1.3197
	E9MLBT-5872	$1+4p/8p$	$p=21$	1.319
	FFFDWR-5877	$(1+4p)/8p$	$p=21$	1.32
	FP7YZ6-5877			1.293
	GPZ4WP-5872	$(1+4p)/8p$	$p=21$	1.3197
	HBJ9GT-5872	$(1+(1/4p))/2$	$p = 21$	1.319
	HJNFVT-5877	$(1+4p)/8p$	$p=21$	1.320
	HR4YFR-5872	$(1+4p)/8p$	$p=0.1525$	1.319672131
	M8HUWJ-5872	$(1/8)(1+4p)/p$	$p=21$	1.3197
	MW6WRF-5872	$(1+4p)/8p$	$p=21$	1.3196

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
FGA	MZZK9M-5877	$(1 + 4p)/8p$	$p=21$	1.320
	NJVDUK-5877	$(1 + 4p)/8p$	$p=21$	1.320
	PUMMRD-5877	*	*	1.293
	RXP3PL-5872	$(1 + 4p)/8p$	$p = 21$	1.319
	TQEDCR-5872	$(1 + 4p)/(8p)$	$p=21$	1.3197
	UNMTLE-5877	$(1 + 4p)/8p$	$p=21$	1.320
	VG2ZAE-5872	$(1 + 4p)/8p$	$p=21$	1.320
	W2HW3B-5872	$(1 + 4p)/8p$	$p=21$	1.3197
	W4MPUN-5872	$(1 + 4p)/(8p)$	$p=21$ $q=22$ $r=25$	1.320
	XT8VGA-5872	$(1 + 4 * P[21]) / (8 * P[21])$	$p=21$	1.3196
	YDQJ3L-5877			1.293
	YNYU8H-5872	$(1 + 4p)/8p$	$p = 21$	1.3197

Statistical Analysis Summary of FGA
Likelihood Ratio Mode: 1.3197

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
PentaD	2GLPX3-5872	$4p+1/8p$	$p=9$	1.0153
	42JZU2-5877	$(1+4p)/8p$	$p=9$	1.0153
	4Z3433-5872	$((1/8)*(1+4*r))/r$	$r=9$	1.015
	64KMMW-5872	$(1+4p)/8p$	$p=9$	1.0152
	6HMU22-5872	$((1/16)*(1+12*r))/r$	$r=9$	1.0076
	74Z4F4-5877	$(1+4p)/8p$	9	1.0152
	7EX8JX-5872	$(1+4p)/8p$	$p=9$	1.0153
	7WXUBW-5872	$(1+4p)/8p$	$p=9$	1.0152
	9QLQB9-5872	$[Z1/4pa]+Z0$	$a = 9 \ b = 11 \ c = 13$	1.015
	A9ZPVW-5872	$(1+4p)/8p$	$p=9$	1.015
	ADUJTX-5877			1.00
	AMZMJT-5872	Calculated in familiassoftware version 3.2.8		1.015251443
	AVBP6U-5872	$((4p)+1)/8p$	$p=9 \ q=13$	1.015
	B77HQQ-5872	$(1+4p)/8p$	$p=9$	1.0152
	D7F4DW-5872	$(1+4p)/8p$	$p=9$	1.0153
	E9MLBT-5872	$1+4p/8p$	$p=9$	1.015
	FFFDWR-5877	$(1+4p)/8p$	$p=9$	1.02
	GPZ4WP-5872	$(1+4p)/8p$	$p=9$	1.0153
	HBJ9GT-5872	$(1+(1/4p))/2$	$p = 9$	1.015
	HJNFVT-5877	$(1+4p)/8p$	$p=9$	1.015
	HR4YFR-5872	$(1+4p)/8p$	$p=02426$	1.015251443
	M8HUWJ-5872	$(1/8)(1+4p)/p$	$p=9$	1.0153
	MW6WRF-5872	$(1+4p)/8p$	$p=9$	1.0152
	MZZK9M-5877	$(1+4p)/8p$	$p=9$	1.015

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
PentaD	NJVDUK-5877	$(1 + 4p)/8p$	$p=9$	1.015
	RXP3PL-5872	$(1 + 4p)/8p$	$p = 9$	1.015
	TQEDCR-5872	$(1 + 4p)/(8p)$	$p=9$	1.0153
	UNMTLE-5877	$(1 + 4p)/8p$	$p=9$	1.015
	VG2ZAE-5872	$(1 + 4p)/8p$	$p=9$	1.015
	W2HW3B-5872	$(1 + 4p)/8p$	$p=9$	1.0153
	W4MPUN-5872	$(1 + 4r)/(8r)$	$p=11 \ q=13 \ r=9$	1.015
	XT8VGA-5872	$(1 + 4 * P[9]) / (8 * P[9])$	$p=9$	1.0152
	YNYU8H-5872	$(1 + 4p)/8p$	$P = 9$	1.0153

Statistical Analysis Summary of PentaD
Likelihood Ratio Mode: 1.015

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
PentaE	2GLPX3-5872	1/2		0.5000
	42JZU2-5877	0.5		0.5
	4Z3433-5872	1/2		0.5000
	64KMMW-5872	1/2		0.50000
	6HMU22-5872	3/4		.75
	74Z4F4-5877	1/2		0.5
	7EX8JX-5872	1/2		0.5000
	7WXUBW-5872	1/2		0.5000
	9QLQB9-5872	Z0	$\alpha = 12 \text{ b} = 7$	0.5000
	A9ZPVW-5872	1/2		0.5
	ADUJTX-5877			0.49
	AMZMJT-5872	Calculated infamiliassoftwareversion 3.2.8		0.5
	AVBP6U-5872	1/2	$p=7$	0.500
	B77HQQ-5872	1/2		0.5
	D7F4DW-5872	1/2		0.5
	E9MLBT-5872	0.5		0.5
	GPZ4WP-5872	0.5	-	0.5000
	HBJ9GT-5872	0.5		0.5
	HJNFVT-5877	0.5		0.5
	HR4YFR-5872	1/2		0.5
	M8HUWJ-5872	1/2		0.5000
	MW6WRF-5872	1/2		0.5000
	MZZK9M-5877	1/2		0.5
NJVDUK-5877	1/2		0.5000	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
PentaE	RXP3PL-5872	1/2		0.500
	TQEDCR-5872	2/4		0.5000
	UNMTLE-5877	0.5		0.5000
	VG2ZAE-5872	1/2		0.5
	W2HW3B-5872	1/2		0.5
	W4MPUN-5872	1/2	p=12 q=7	0.5000
	XT8VGA-5872	0.5		0.5
	YNYU8H-5872	2/4		0.5

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	2GLPX3-5872	$4p+1/8p$	$p=23.2$	5.8648
	42JZU2-5877	$(1+4p)/8p$	$p=23.2$	5.8648
	4Z3433-5872	$((1/8)*(1+4*p))/p$	$p=23.2$	5.865
	64KMMW-5872	$(1+4p)/8p$	$p=23.2$	5.8648
	6HMU22-5872	$((1/16)*(1+12*p))/p$	$p=23.2$	3.4324
	74Z4F4-5877	$(1+4p)/8p$	23.2	5.8648
	7EX8JX-5872	$(1+4p)/8p$	$p=23.2$	5.8648
	7WXUBW-5872	$(1+4p)/8p$	$p=23.2$	5.8648
	9QLQB9-5872	$[Z1/4pa]+Z0$	$a = 23.2$ $b = 26.2$ $c = 28.2$	5.865
	A9ZPVW-5872	$(1+4p)/8p$	$p=23.2$	5.864
	ADUJTX-5877			4.33
	AMZMJT-5872	Calculated in familiassoftware version 3.2.8		5.864806867
	AVBP6U-5872	$((4p)+1)/8p$	$p=23.2$ $q=28.2$	5.865
	B77HQQ-5872	$(1+4p)/8p$	$p=23.2$	5.8648
	D7F4DW-5872	$(1+4p)/8p$	$p=23.2$	5.8648
	E9MLBT-5872	$1+4p/8p$	$p=23.2$	5.865
	FFFDWR-5877	$(1+4p)/8p$	$p=23.2$	5.86
	FP7YZ6-5877			4.354
	GPZ4WP-5872	$(1+4p)/8p$	$p=23.2$	5.8648
	HBJ9GT-5872	$(1+(1/4p))/2$	$p = 23.2$	5.864
	HJNFVT-5877	$(1+4p)/8p$	$p=23.2$	5.865
	HR4YFR-5872	$(1+4p)/8p$	$p=0.0233$	5.864806867
	M8HUWJ-5872	$(1/8)(1+4p)/p$	$p=23.2$	5.8648
	MW6WRF-5872	$(1+4p)/8p$	$p=23.2$	5.8648

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
SE33	MZZK9M-5877	$(1 + 4p)/8p$	$p=23.2$	5.865
	NJVDUK-5877	$(1 + 4p)/8p$	$p=23.2$	5.865
	PUMMRD-5877	*	*	4.354
	RXP3PL-5872	$(1 + 4p)/8p$	$p = 23.2$	5.863
	TQEDCR-5872	$(1 + 4p)/(8p)$	$p=23.2$	5.8648
	UNMTLE-5877	$(1 + 4p)/8p$	$p=23.2$	5.865
	VG2ZAE-5872	$(1 + 4p)/8p$	$p=23.2$	5.865
	W2HW3B-5872	$(1 + 4p)/8p$	$p=23.2$	5.8648
	W4MPUN-5872	$(1 + 4p)/(8p)$	$p=23.2$ $q=26.2$ $r=28.2$	5.865
	XT8VGA-5872	$(1 + 4 * P[23.2]) / (8 * P[23.2])$	$p=23.2$	5.8648
	YDQJ3L-5877			4.354
	YNYU8H-5872	$(1 + 4p)/8p$	$p = 23.2$	5.8648

Statistical Analysis Summary of SE33
Likelihood Ratio Mode: 5.8648

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
TH01	2GLPX3-5872	1/2		0.5000
	42JZU2-5877	0.5		0.5
	4Z3433-5872	1/2		0.5000
	64KMMW-5872	1/2		0.5000
	6HMU22-5872	3/4		.75
	74Z4F4-5877	1/2		0.5
	7EX8JX-5872	1/2		0.5000
	7WXUBW-5872	1/2		0.5000
	9QLQB9-5872	Z0	a = 9 b = 7 c = 9.3	0.5000
	A9ZPVW-5872	1/2		0.5
	ADUJTX-5877			0.49
	AMZMJT-5872	Calculated infamiliasoftwareversion 3.2.8		0.5
	AVBP6U-5872	1/2	p=7 q=9.3	0.500
	B77HQQ-5872	1/2		0.5
	D7F4DW-5872	1/2		0.5
	E9MLBT-5872	0.5		0.5
	FP7YZ6-5877			0.5000
	GPZ4WP-5872	0.5	-	0.5000
	HBJ9GT-5872	0.5		0.5
	HJNFVT-5877	0.5		0.5
	HR4YFR-5872	1/2		0.5
	M8HUWJ-5872	1/2		0.5000
	MW6WRF-5872	1/2		0.5000
	MZZK9M-5877	1/2		0.5

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
TH01	NJVDUK-5877	1/2		0.5000
	PUMMRD-5877	*	*	0.5000
	RXP3PL-5872	1/2		0.500
	TQEDCR-5872	2/4		0.5000
	UNMTLE-5877	0.5		0.5000
	VG2ZAE-5872	1/2		0.5
	W2HW3B-5872	1/2		0.5
	W4MPUN-5872	1/2	p=7 q=9 r=9.3	0.5000
	XT8VGA-5872	0.5		0.5
	YDQJ3L-5877			0.5000
	YNYU8H-5872	2/4		0.5

Statistical Analysis Summary of TH01
Likelihood Ratio Mode: 0.5000

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
TPOX	2GLPX3-5872	$p+1/2p$	$p=8$	1.5305
	42JZU2-5877	$(1+p)/2p$	$p=8$	1.5305
	4Z3433-5872	$((1/4)*(2+2*p))/p$	$p=8$	1.531
	64KMMW-5872	$(1+p)/2p$	$p=8$	1.5305
	6HMU22-5872	$((1/16)*(4+12*p))/p$	$p=8$	1.2653
	74Z4F4-5877	$2p(1+p)/(2p)^2$	8	1.5305
	7EX8JX-5872	$(1+p)/2p$	$p=8$	1.5305
	7WXUBW-5872	$(1+p)/2p$	$p=8$	1.5305
	9QLQB9-5872	$[Z2/pa*pa]+[Z1/pa]+Z0$	$a = 8$	1.531
	A9ZPVW-5872	$(2+2p)/4p$	$p=8$	1.530
	ADUJTX-5877			1.49
	AMZMJT-5872	Calculated infamiliasoftwareversion 3.2.8		1.530502885
	AVBP6U-5872	$(p+1)/2p$	$p=8$	1.531
	B77HQQ-5872	$(1+p)/2p$	$p=8$	1.5305
	D7F4DW-5872	$(1+p)/2p$	$p=8$	1.5305
	E9MLBT-5872	$1+p/2p$	$p=8$	1.531
	FFFDWR-5877	$(p+q+4pq)/8pq$	$p=8 q=8$	1.02
	FP7YZ6-5877			1.501
	GPZ4WP-5872	$(1+p)/2p$	$p=8$	1.5305
	HBJ9GT-5872	$(1+(1/p))/2$	$p = 8$	1.530
	HJNFVT-5877	$(1+p)2p$	$p=8$	1.531
	HR4YFR-5872	$(1+p)/2p$	$u=0.4852$	1.530502885
	M8HUWJ-5872	$(1/4)(2+2P)/p$	$p=8$	1.5305
	MW6WRF-5872	$(1+p)/2p$	$p=8$	1.5305

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
TPOX	MZZK9M-5877	$(1+p)/2p$	$p=8$	1.531
	NJVDUK-5877	$(1+p)/2p$	$p=8$	1.530
	PUMMRD-5877	*	*	1.501
	RXP3PL-5872	$(1+p)/2p$	$p = 8$	1.531
	TQEDCR-5872	$(2p(1+p))/(4pp)$	$p=8$	1.5305
	UNMTLE-5877	$(1+p)/2p$	$p=8$	1.531
	VG2ZAE-5872	$(1+p)/2p$	$p=8$	1.531
	W2HW3B-5872	$(1+p)/2p$	$p=8$	1.5305
	W4MPUN-5872	$(2+2p)/(4p)$	$p=8$	1.531
	XT8VGA-5872	$(1+P[8])/(2*P[8])$	$p=8$	1.5305
	YDQJ3L-5877			1.501
	YNYU8H-5872	$[2p(1+p)]/2p^2$	$p = 8$	1.5305

Statistical Analysis Summary of TPOX
Likelihood Ratio Mode: 1.5305

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
vWA	2GLPX3-5872	$4p+1/8p$	$p=16$	0.9403
	42JZU2-5877	$(1+4p)/8p$	$p=16$	0.9403
	4Z3433-5872	$((1/8)*(1+4*p))/p$	$p=16$	0.9403
	64KMMW-5872	$(1+4p)/8p$	$p=16$	0.9402
	6HMU22-5872	$((1/16)*(1+12*p))/p$	$p=16$	0.9701
	74Z4F4-5877	$(1+4p)/8p$	16	0.9403
	7EX8JX-5872	$(1+4p)/8p$	$p=16$	0.9403
	7WXUBW-5872	$(1+4p)/8p$	$p=16$	0.9402
	9QLQB9-5872	$[Z1/4pa]+Z0$	$a = 16 \ b = 17 \ c = 18$	0.9403
	A9ZPVW-5872	$(1+4p)/8p$	$p=16$	0.940
	ADUJTX-5877			0.93
	AMZMJT-5872	Calculated infamiliassoftwareversion 3.2.8		0.9402958788
	AVBP6U-5872	$((4p)+1)/8p$	$p=16 \ q=18$	0.940
	B77HQQ-5872	$(1+4p)/8p$	$p=16$	0.9402
	D7F4DW-5872	$(1+4p)/8p$	$p=16$	0.9403
	E9MLBT-5872	$1+4p/8p$	$p=16$	0.9403
	FFFDWR-5877	$(1+4p)/8p$	$p=16$	0.94
	GPZ4WP-5872	$(1+4p)/8p$	$p=16$	0.9403
	HBJ9GT-5872	$(1+(1/4p))/2$	$p = 16$	0.9402
	HJNFVT-5877	$(1+4p)/8p$	$p=16$	0.9403
	HR4YFR-5872	$(1+4p)/8p$	$p=0.2839$	0.940295878
	M8HUWJ-5872	$(1/8)(1+4p)/p$	$p=16$	0.9403
	MW6WRF-5872	$(1+4p)/8p$	$p=16$	0.9402
	MZZK9M-5877	$(1+4p)/8p$	$p=16$	0.940

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
vWA	NJVDUK-5877	$(1+4p)/8p$	$p=16$	0.9403
	PUMMRD-5877	*omitted	*	
	RXP3PL-5872	$(1+4p)/8p$	$p = 16$	0.940
	TQEDCR-5872	$(1+4p)/(8p)$	$p=16$	0.9403
	UNMTLE-5877	$(1+4p)/8p$	$p=16$	0.9403
	VG2ZAE-5872	$(1+4p)/8p$	$p=16$	0.9403
	W2HW3B-5872	$(1+4p)/8p$	$p=16$	0.94030
	W4MPUN-5872	$(1+4p)/(8p)$	$p=16$ $q=17$ $r=18$	0.9403
	XT8VGA-5872	$(1+4*P[16])/(8*P[16])$	$p=16$	0.9402
	YNYU8H-5872	$(1+4p)/8p$	$p = 16$	0.09403

Statistical Analysis Summary of vWA
Likelihood Ratio Mode: 0.9403

Kinship DNA Statistics

Is the claim of the following relationship supported by the genetic evidence: **Uncle/Nephew?**

TABLE 7

WebCode-Test	Kinship Index	Claim Supported?
2GLPX3-5872	85.9016	Yes
42JZU2-5877	85.91	Inconclusive
4Z3433-5872	85.87	Yes
64KMMW-5872	85.90159	Yes
6HMU22-5872	30.4090	Yes
74Z4F4-5877	85.9015	No
7EX8JX-5872	85.9016	Yes
7WXUBW-5872	85.90159	Yes
9QLQB9-5872	85.902	Yes
A9ZPVW-5872	85.9015	Yes
ADUJTX-5877	34.58	Yes
AMZMJT-5872	85.90159116	Inconclusive
AVBP6U-5872	85.90159116	Inconclusive
B77HQQ-5872	85.90159	Yes
D7F4DW-5872	85,9065	Inconclusive
E9MLBT-5872	85.7174	Yes
FFDWR-5877	72	Yes
FP7YZ6-5877	75	Yes
GPZ4WP-5872	85.8996	Yes
HBJ9GT-5872	170.99	Yes
HJNFVT-5877	85.9016	Yes
HR4YFR-5872	85.90159112 more likely	Inconclusive
M8HUWJ-5872	85.8972	Yes
MW6WRF-5872	85.90159	Yes
MZZK9M-5877	85.902	Yes
NJVDUK-5877	85.73	Inconclusive
PUMMRD-5877	75	Yes
RXP3PL-5872	8.580E+01	Yes
TQEDCR-5872	1.7 x 10 ²	Yes

TABLE 7 - Kinship DNA Statistics

WebCode-Test	Kinship Index	Claim Supported?
UNMTLE-5877	85.90	Inconclusive
VG2ZAE-5872	86	Yes
W2HW3B-5872	85.902	Inconclusive
W4MPUN-5872	85.90	Yes
XT8VGA-5872	85.8368	Yes
YDQJ3L-5877	75.00	Yes
YNYU8H-5872	85.9016	Inconclusive

Response Summary	Participants: 36
<i>Is the relationship claim of Uncle/Nephew supported?</i>	
Yes	26
No	1
Inconclusive	9

Additional Kinship Statistical Results

TABLE 8

WebCode-Test	Additional Statistical Results and Relationship Conclusions
4Z3433-5872	In a casework scenario, vWA or D12S391 would not be included due to linkage disequilibrium.
64KMMW-5872	There is strong evidence to indicate that the subjects are related as uncle and nephew. The probability of kinship is 98.8492% based on the NIST STRBASE Hispanic Population Database.
6HMU22-5872	vWA is ignored due to linkage with D12S391.
74Z4F4-5877	El índice de parentesco de que los dos perfiles analizados presenten una relación de parentesco biológico del tipo tío-sobrino con respecto a que no estén relacionados genéticamente es de 85.9015 a 1. En términos probabilidad de parentesco biológico (W) tenemos un 0.9884, con base a lo anterior se concluye que no existe evidencia científica suficiente para afirmar la relación biológica tío-sobrino. [Requested translation was not provided by time of publication.]
7EX8JX-5872	There is strong evidence to indicate that the subjects are related as uncle and nephew. The probability of kinship is 98.8492 % based on the NIST STRBASE Hispanic Population Database.
7WXUBW-5872	There is strong evidence to indicate that the subjects are related as uncle and nephew. The probability of kinship is 98.8492% based on the NIST STRBASE Hispanic Population Database.
ADUJTX-5877	The observed genetic results are 34-times more likely to occur under the scenario that the tested man is the uncle of the child, as opposed to the scenario that they are unrelated. (Familias 3.2.8, theta value 0.01)
AMZMJT-5872	Uncle/Nephew kinship relationship scenario is calculated using familias software 3.2.8 , nevertheless, for this kind of scenario is strongly suggested to use lineage markers like X or Y chromosomes relying on gender compatibility.
AVBP6U-5872	Conclusion: Inconclusive. With the genetic information obtained from the Uncle and Nephew, it is not possible to determine the relationship. The probability value calculated is less than the established minimum.
B77HQQ-5872	There is strong evidence to indicate that the subjects are related as uncle and nephew. The probability of kinship is 98.8492% based on the NIST STRBASE Hispanic Population Database.
D2ADAQ-5872	Our lab do not do this type of relationships.
FFFDWR-5877	Weak to moderate support to the supposed relationship uncle/nepheu.
FP7YZ6-5877	The reported values are Kinship Index (KI) values calculated using KIn CALc v6.0 BFS 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 x/N. Due to possible genetic linkage between vWA and D12S391 loci, the KI values from only one of these loci were reported and used to calculate the combined KI. Per laboratory practice, only the GlobalFiler loci are used for the KI calculations, hence no KI's were reported for the Penta D and Penta E loci. For KI calculations using KIn CALc, the following parameters were arbitrarily assigned: a) Nephew was assigned as the "TEST" profile; b) Uncle was assigned as a paternal relative (brother of Nephew's father).
GPZ4WP-5872	There is strong evidence to indicate that the subjects are related as uncle and nephew. The probability of kinship is 98.8492% based on the NIST STRBASE Hispanic Population Database.
HBJ9GT-5872	D12S391 Was not used in calculating the kinship index due to possible linkage with vWA
HJNFVT-5877	Based on AABB standards, these results would be accompanied by the narrative: The genetic evidence supports the relationship of second-degree relatives such as uncle and nephew. 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.)

TABLE 8

WebCode-Test	Additional Statistical Results and Relationship Conclusions
MW6WRF-5872	There is strong evidence to indicate that the subjects are related as uncle and nephew. The probability of kinship is 98.8492% based on the NIST STRBASE Hispanic Population Database.
MZZK9M-5877	Combined full sibship index = 85.902. Probability of full sibship = 98.85% (50% prior probability). 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 full sibling relationship between the tested parties.
NJVDUK-5877	[Laboratory] policy requires a likelihood ration of 1000 times to be conclusive proof of relatedness.
PUMMRD-5877	* The likelihood ratios were calculated with the KinCALc 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 KinCALc software uses the NIST STRBase Population Database. vWA was omitted due to linkage with D12S391. Also we do not test PentaD and PentaE in our laboratory so those loci were not evaluated. The individuals were reported to be Hispanic; therefore only values for Hispanic were reported.
RXP3PL-5872	The Standards for Relationship Testing Laboratories of AABB for two-party comparisons indicates: "Likelihood ratios greater than 10 shall be considered genetic evidence supporting the tested relationship". The Laboratory should have comprehensive validation studies for similar cases like the present, and stablish its own cut-off values.
U4WHYE-5877	Uncle/Nephew relationships not reported.
W2HW3B-5872	Based on the comparison of the genetic profiles, the profiles are 85.902 times more likely to occur considering both persons are related as uncle and nephew than if they are not related. However, this result is inconclusive in regards to the hypothesis that they are related as uncle and nephew.
W4MPUN-5872	The genetic evidence provides limited support of the relationship of Uncle/Nephew.
XT8VGA-5872	Two DNA profiles from the Hispanic uncle and nephew relationship were compared by using the allele frequencies assigned for the test loci. There are likely to be half-sibling relationships because the probability of kinship index is greater than 98.8484%
YDQJ3L-5877	The likelihood ratios shown above were calculated using the KinCALc 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 x/N. The combined KI (Hispanic) shown above does not include vWA. vWA was removed due to genetic linkage with D12. The Penta D and Penta E loci were not calculated as these loci are not tested in this laboratory. The combined KI (Hispanic) is only calculated to 2 significant figures by the KinCALc software.

Additional Comments

TABLE 9

WebCode-Test	Additional Comments
2GLPX3-5872	Our laboratory does not report PI calculations when the alleged father is excluded.
2MPTLF-5872	No statistical analysis performed for Alleged Father A per policy (outright excluded).
2RG4VE-5872	This laboratory does not perform statistics at vWA or SE33. FBI popstats NIST 2017 data set utilized.
2U9YK9-5877	Our laboratory did not take part of Kinship DNA Statistics section (Part III), because it is not applicable to our laboratory.
46JBQ2-5877	SE33 locus not used in the calculation of PI at the [Laboratory].
4P3DJF-5872	The [Laboratory] does not calculate statistics at SE33 since it is a highly mutating locus or vWA because it is linked to D12S391, which stats is calculated for. [Laboratory] also does not perform kinship stats.
64KMMW-5872	1. On comparison to the DNA profiles obtained, I found that the source of bloodstain specimen "Item 4" is the biological father to the source of bloodstain specimen "Item 2" (given that the biological mother is represented by the source of bloodstain specimen "Item 1"). 2. On comparison to the DNA profiles obtained, I found that the source of bloodstain specimen "Item 3" is NOT the biological father to the source of bloodstain specimen "Item 2" (given that the biological mother is represented by the source of bloodstain specimen "Item 1"). 3. 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 (GFE) on PROFLEX PCR System. - Item 2, Item 3 and Item 4 were further amplified using AmpFISTR Y-Filer PCR Amplification kit on 9700 GeneAmp PCR System. 5. Electrophoresis: - Electrophoresis was carried out on Genetic Analyzer 3500xl for Item 1, Item 2, Item 3 and Item 4 (Globalfiler Express). - Electrophoresis was carried out on Genetic Analyzer 3500xl Item 2, Item 3 and Item 4 (Yfiler). 6. Quality Control: - Reagent blank, positive control and negative control were incorporated in the overall analysis and gave designated results. 7. The statistical formula was derived from DNView Statistical Software and calculated using Microsoft Excel. Remark: 'NM' denotes non-male profile
6L3NFD-5872	Our lab does not calculate paternity statistics on vWA or SE33
6PHW4D-5872	Our lab only reports the combined CPI, not a particular ethnic group. If an alleged parent is excluded, we do not calculate stats for that person. We do not include vWA in stats. Our lab only does paternity cases, not any other family relationship.
6XRN7F-5872	For Part III: Our laboratory does not calculate or determine the relationship between uncle and nephew. For the DNA Paternity Statistics: 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.
76YA9A-5877	Due to linkage between vWA and D12, our lab uses vWA as a default in paternity stats. If vWA is not discriminating, then D12 is used instead. PI values were not reported for Item 3 because it is excluded.

TABLE 9

WebCode-Test	Additional Comments
7EX8JX-5872	<p>1) On comparison to the DNA profiles obtained, I found that the source of bloodstained specimen "Item 4" 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 3" 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 punched using 1.2mm size puncher and the FTA disc subjected for direct amplification. 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 and negative control were incorporated in the overall analysis and gave expected results. 7) The statistical formula were derived from DNView Statistical Software and the paternity/kinship index was calculated using Microsoft Office Excel. 8) NM : Non-male profile</p>
7WXUBW-5872	<p>1) On comparison to the DNA profiles obtained, I found that the source of bloodstained specimen "Item 4" 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 3" 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 (GFE) on PROFLEX PCR System. - Item 2, Item 3 and Item 4 were further amplified using AmpFISTR Y-Filer PCR Amplification kit on 9700 GeneAmp PCR System. 5) Electrophoresis: -Electrophoresis were carried out on Genetic Analyzer 3500xl for Item 1, Item 2, Item 3 and Item 4 (Globalfiler Express). -Electrophoresis were carried out on Genetic Analyzer 3500xl for Item 2, Item 3 and Item 4 (Yfiler). 6) Quality Control: -Reagent blank, positive control and negative control were incorporated in the overall analysis and gave designated results. 7) The statistical formula were derived from DNView Statistical Software and calculated using Microsoft Excel. NM: denotes non-male profile</p>
86M6XX-5877	NR-no results
9P7TJ9-5872	<p>Part II: It is our laboratory policy to report the lowest LR of the selected population groups/ethnicities calculated with PopStats. vWA is not used in our statistical kinship calculations. Assuming prior probabilities of 10%, 50%, and 90%, the probability of paternity in this case is greater than 99.99%. Part III: Our laboratory does not evaluate or perform statistical calculations for avuncular relationships.</p>
9QLQB9-5872	<p>Probability of Paternity not used in this laboratory. Combined paternity index is based solely on the autosomal data. Autosomal-STR and Y-STR results are not combined. Probable mutation event noted at DYF387S1, with Alleged father B = 38 and Son = 37,38. Notwithstanding the mutation event, Alleged father B (Sample 4) cannot be excluded as being the biological father of the Child (Sample 2).</p>
A8PKH9-5872	No statistical analysis (PIs) calculated for Alleged Father A per policy due to outright exclusion.
AJF6MC-5872	The laboratory does not usually calculate the PI for paternity exclusions.
AVBP6U-5872	<p>It is observed that the alleged father A does not have all the alleles that the son must inherited from her biological father. According to the protocols established in our laboratory, statistical calculations are not performed for the excluded cases.</p>

TABLE 9

WebCode-Test	Additional Comments
B77HQQ-5872	<p>1. On comparison to the DNA profiles obtained, I found that the source of bloodstain specimen "Item 4" is the biological father to the source of bloodstain specimen "Item 2" (given that the biological mother is represented by the source of bloodstain specimen "Item 1"). 2. On comparison to the DNA profiles obtained, I found that the source of bloodstain specimen "Item 3" is NOT the biological father to the source of bloodstain specimen "Item 2" (given that the biological mother is represented by the source of bloodstain specimen "Item 1"). 3. 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 (GFE) on PROFLEX PCR System. - Item 2, Item 3 and Item 4 were further amplified using AmpFISTR Y-Filer PCR Amplification kit on 9700 GeneAmp PCR System. 5. Electrophoresis: -Electrophoresis was carried out on Genetic Analyzer 3500xl for Item 1, Item 2, Item 3 and Item 4 (Globalfiler Express). -Electrophoresis was carried out on Genetic Analyzer 3500xl for Item 2, Item 3 and Item 4 (Yfiler). 6. Quality Control: -Reagent blank, positive control and negative control were incorporated in the overall analysis and gave designated results. 7. The statistical formula was derived from DNAView Statistical Software and calculated using Microsoft Excel. Remark: 'NM' denotes non-male profile.</p>
DDYACP-5872	<p>Any labeled peaks seen in samples that are likely due to PCR/STR artifacts were not reported and will not be used for conclusions or comparisons. DYS391 is reported as INC for the PowerPlex® Fusion System as per laboratory policy.</p>
DER389-5872	<p>Combined Paternity Index value truncated to 2 significant digits per Lab protocol. The D12S391, DYS391, and Amelogenin loci are not used for statistical purposes per Lab protocol. No locus PI values produced for samples that are eliminated as a biological parent (father). Kinship DNA Statistics Section is not applicable.</p>
EHRSTD-5872	<p>CURRENTLY, THE LABORATORY DOES NOT DO SIBSHIP</p>
FBLJW6-5872	<p>Part II: For the locus and Combined Paternity Index values, the laboratory's policy 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 comparisons. Part III: The laboratory does not evaluate avuncular relationships.</p>
FF2RK6-5877	<p>Combined Paternity Index value excludes vWA due to linkage with D12S391 (both loci listed with per-locus PI) and uses Caucasian database</p>
FP7YZ6-5877	<p>For Part I - PI values at specific loci and Part II - Combined PI value: the reported values are Kinship Index (KI) values calculated using KIn CALc v6.0 BFS 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 x/N. Due to possible genetic linkage between vWA and D12S391 loci, the KI values from only one of these loci were reported and used to calculate the combined KI. For Part II: our laboratory does not report Probabilities of Paternity.</p>

TABLE 9

WebCode-Test	Additional Comments
GPZ4WP-5872	1) On comparison to the DNA profiles obtained, I found that the source of bloodstained specimen "Item 4" 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 3" 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 (GFE) on 9700 GeneAmp PCR System. - Item 2, Item 3 and Item 4 were further amplified using AmpFISTR Y-Filer PCR Amplification kit on 9700 GeneAmp PCR System. 5) Electrophoresis: -Electrophoresis were carried out on Genetic Analyzer 3500xl for Item 1, Item 2, Item 3 and Item 4 (Globalfiler Express). -Electrophoresis were carried out on Genetic Analyzer 3500xl for Item 2, Item 3 and Item 4 (Yfiler). 6) Quality Control: -Reagent blank, positive control and negative control were incorporated in the overall analysis and gave designated results. 7) NM represents non male profile. 8) The statistical formula were derived from DNAView Statistical Software and calculated using Microsoft Excel.
H742TT-5872	NR = No Results. Item 2 is concordant between PowerPlex Fusion and Yfiler at DYS391. Item 3 is concordant between PowerPlex Fusion and Yfiler at DYS391. Item 4 is concordant between PowerPlex Fusion and Yfiler at DYS391.
HEW9DJ-5872	There is a 1-step difference between item 2 and item 4 (child and putative father) at DYF387S1.
HMNRRT-5877	Locus DYF387S1 first analysis for Item 4, detected only "38" allele in the sample. Due to this condition, following our lab procedures, we performed the same analysis using the second swab provided for Item 4. The results this time revealed a strong peak imbalance between "37" and "38" alleles in the sample. According to our lab procedures, making the comparisons between the two described haplotypes, we didn't report 37 allele for Item 4.
HWEA72-5872	Alleged father A was outright excluded, and no statistical analysis was performed per policy.
JPATAL-5877	SE33 not used for statistics in laboratory procedure
KPPCTX-5872	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 PopStats of the selected population groups/ethnicities. The probability of paternity was calculated assuming prior probabilities of 10%, 50%, and 90%. Part III was not completed as our laboratory does not calculate uncle-nephew relationship statistics
KRH9GR-5872	NR = No Result. PowerPlex Fusion and YFiler results are concordant at DYS391 for Item 2. PowerPlex Fusion and YFiler results are concordant at DYS391 for Item 3. PowerPlex Fusion and YFiler results are concordant at DYS391 for Item 4.
LHMMNY-5872	D12S391 is omitted from the final calculation, as per laboratory policy. The CPI is truncated to 2 significant figures, as per laboratory policy. The Probability of Paternity is truncated to 4 digits past the decimal point, as per laboratory policy.
LKU6MU-5872	PI values not calculated for Item 3 due to exclusion. Our reporting scope is paternity calculations, therefore Part III: KINSHIP DNA STATISTICS has not been completed. Part II: PATERNITY DNA STATISTICS - Probability of Paternity not calculated, also not in our reporting scope.

TABLE 9

WebCode-Test	Additional Comments
MW6WRF-5872	1. On comparison to the DNA profiles obtained, I found that the source of bloodstain specimen "Item 4" is the biological father to the source of bloodstain specimen "Item 2" [given that the biological mother is represented by the source of bloodstain specimen "Item 1"]. 2. On comparison to the DNA profiles obtained, I found that the source of bloodstain specimen "Item 3" is NOT the biological father to the source of bloodstain specimen "Item 2" [given that the biological mother is represented by the source of bloodstain specimen "Item 1"]. 3. 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 (GFE) on PROFLEX PCR System. -Item 2, Item 3 and Item 4 were further amplified using AmpFISTR Y-Filer PCR Amplification kit on 9700 GeneAmp PCR System. 5. Electrophoresis: -Electrophoresis was carried out on Genetic Analyzer 3500xl for Item 1, Item 2, Item 3 and Item 4 (Globalfiler Express). -Electrophoresis was carried out on Genetic Analyzer 3500xl for Item 2, Item 3 and Item 4 (Yfiler). 6. Quality Control: -Reagent blank, positive control and negative control were incorporated in the overall analysis and gave designated results. 7. The statistical formula was derived from DNAView Statistical Software and calculated using Microsoft Excel. Remark: 'NM' denotes non-male profile.
NG4H6Q-5872	vWA omitted in Combined Paternity Index.
NJVDUK-5877	A primer binding mutation is suspected in the haplotype of Alleged Father B at the DYF387S1 locus.
P2L9GR-5872	Part I and Part II: For Locus and Combined Paternity Index (CPI) values, our laboratory protocol is to report the lowest CPI calculated in PopStats for the selected populations sub-groups. 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 for statistical calculation purposes: vWA. Part III: Our laboratory does not evaluate uncle/nephew relationships or calculate the respective statistic.
P4D67L-5872	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.
PUMMRD-5877	The paternity indexes 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 1/k instead of just x/N. The KinCALc software uses the NIST STRBase Population Database. D12S391 was omitted due to linkage with VWA. The Individuals were reported to be Caucasian; therefore only values for Caucasian were reported.
QCZKC2-5872	DNA View forensic mathematics software used for kinship calculations. PI not calculated for Item 3 based off on initial kinship screen. D12 and vWA are considered linked loci and only one of these are used for kinship comparisons.
QFL86P-5872	FBI Popstats NIST 2017 data set. SE33 and vWA are not utilized for statistical calculations in this laboratory.
QU4ZTV-5872	D12S391 is omitted from calculations, as per laboratory policy. The CPI is truncated to 2 significant figures, as per laboratory policy. PI values reported as provided from calculations using the NIST 1036 U.S. Population Dataset. Probability of paternity truncated at 4 digits past the decimal point, as per laboratory policy.
RABJ6T-5872	PI is not calculated when an individual is excluded as the biological father of the offspring. Our laboratory does not use vWA and D12S391 when calculating statistics for parentage or kinship cases because analysis of the CEPH pedigree families demonstrated a degree of linkage between vWA and D12S391 that does not support the assumption of independence for kinship analysis. Part III not applicable to our laboratory.

TABLE 9

WebCode-Test	Additional Comments
TLX6NT-5872	Per our laboratory manual, no LR calculations are performed for an alleged father who can be visually eliminated by three or more inconsistencies. So, no statistics were provided for Item 3 (alleged father A). Per our laboratory manual, no statistics were calculated for D12S391 due to potential linkage with vWA for distant relatives. Per our laboratory manual, the combined paternity index value was truncated to 2 significant figures and the probability of paternity truncated to four places after the decimal.
TQEDCR-5872	Part I: 1) The laboratory uses a minimum allele frequency of 0.01. 2) The laboratory does not use D12S391 for paternity DNA statistics. 3) The laboratory excludes the alleged parent as biological parent of the child when there are ≥ 3 loci with genetic inconsistencies; the PI is not calculated. Part II: 1) The laboratory uses the all-ethnicities dataset (n=1036) for paternity DNA statistics. 2) '^' refers to 'to the power of'. 3) The laboratory uses a prior probability of 0.5 to calculate the Probability of Paternity. Part III: 1) The laboratory does not use D12S391 for kinship DNA statistics.
U36LAL-5872	[Laboratory] doesn't calculate statistics on vWA & SE33; however, the loci are still used for comparison.
U4WHYE-5877	vWA and D12S391 are only 6.3 Mb apart and significant linkage disequilibrium has been detected. In this pedigree, the relationship index for each locus is as follows: Items 1,2,3 Comparison: • vWA = 1.7612, • D12S391 = 3.9246. Items 1,2,4 Comparison: • vWA = 1.7612, • D12S391 = 3.9246. As such, D12S391 will be the only locus evaluated (unless a mutation appears in vWA). D12S391 has more alleles in its locus (23 versus 15) and more variation amongst the population statistics for each allele than vWA.
UDM33R-5872	Parts 1 & 2: - D12S391 omitted from Combined Paternity Index calculation, per Department policy. - Combined Paternity Index value truncated to 2 significant figures, per Department policy. - Probability of Paternity truncated at four places past decimal, per Department policy. Part 3: Avuncular Kinship calculations are not performed by the Department.
VKJKUA-5877	SE33 was not used for statistics as per the [Laboratory] procedures.
W2HW3B-5872	- Eventhough, the statistical calculation based on the autosomal STR data strongly supports the hypothesis that donor of Item 4 and donor of Item 2 share a father-son relationship, it was noted that their haplotype at marker DYF387S1 showed to have different alleles between donors: Donor of Item 2 haplotype at DYF387S1 37, 38. Donor of Item 4 haplotype at DYF387S1 38, 38. Following Laboratory policy on paternity test, mutations events were not considered for the statistical calculation between donors of Item 2 and 3 since the number of inconsistent markers is greater than 3.
W4MPUN-5872	In Part I and II, due to the possibility of genetic linkage between the STR loci D12S391 and vWA, the D12S391 focus is omitted from the kinship index calculation.
W8CR3W-5877	LR values were filled in PI rows for Item 4 H1: Alleged Father B (Item 4) is the father of the Known Child. H2: Random, unrelated man from population is the biological father of the Known Child. $LR=H1/H2$. 1. DNA results provide extremely strong support ($LR=2,68e+016$) for the first proposition Alleged Father B is the father of the Known Child rather than the alternative proposition that a random, unrelated man from population is the biological father of the Known Child. 2. The probability of paternity of the Alleged Father A (Item 3) in relation to the Known Child is excluded.

TABLE 9

WebCode-Test	Additional Comments
YDQJ3L-5877	For the paternity statistics, the likelihood ratios entered were calculated using the KinCALc 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 x/N. The combined PI (Caucasian) shown above does not include D12. D12 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. This laboratory does not report probability of paternity so this value was not calculated.
YUBA2K-5872	The most conservative statistic (lowest PI or LR) is included in the report (Caucasian in this instance). The laboratory does not report out the probability of parentage (%) or perform hand calculations for kinship statistics.
ZVKEE9-5872	Blood stain labeled with item 4 is the biological father of the donor of blood stain labeled with item 2

-End of Report-
(Appendix may follow)

Collaborative Testing Services ~ Forensic Testing Program

Test No. 23-5872: DNA Parentage

DATA MUST BE SUBMITTED BY **Oct. 23, 2023, 11:59 p.m. EDT** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A

WebCode: RYPC74

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 DPF3 - FTA Microcards):

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

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

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

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

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 Hispanic Uncle/Nephew relationship. Using the allele frequencies shown for the tested loci, calculate the likelihood ratio for support of the proposed relationship versus being unrelated.

Locus	Uncle	Nephew	Allele Frequencies		Formula Used	Allele Legend	Likelihood Ratio
D1S1656	17,17	15,17	15: 0.1377	17: 0.0424	<input type="text"/>	<input type="text"/>	<input type="text"/>
D2S1338	18,20	17,20	17: 0.1695	18: 0.0805	<input type="text"/>	<input type="text"/>	<input type="text"/>
			20: 0.1271				
D2S441	10,11	10,10	10: 0.3369	11: 0.2987	<input type="text"/>	<input type="text"/>	<input type="text"/>
D3S1358	15,15	15,17	15: 0.3220	17: 0.1843	<input type="text"/>	<input type="text"/>	<input type="text"/>
D5S818	7,12	11,12	7: 0.0339	11: 0.3898	<input type="text"/>	<input type="text"/>	<input type="text"/>
			12: 0.3390				

Locus	Uncle	Nephew	Allele Frequencies		Formula Used	Allele Legend	Likelihood Ratio
D7S820	11,11	8,10	8: 0.1208	10: 0.3072	<input type="text"/>	<input type="text"/>	<input type="text"/>
			11: 0.2775				
D8S1179	11,15	13,15	11: 0.0530	13: 0.2733	<input type="text"/>	<input type="text"/>	<input type="text"/>
			15: 0.1292				
D10S1248	13,15	13,15	13: 0.2733	15: 0.2119	<input type="text"/>	<input type="text"/>	<input type="text"/>
D12S391	19,22	18,20	18: 0.1780	19: 0.1886	<input type="text"/>	<input type="text"/>	<input type="text"/>
			20: 0.1547	22: 0.0678			
D13S317	8,11	11,12	8: 0.1102	11: 0.2182	<input type="text"/>	<input type="text"/>	<input type="text"/>
			12: 0.2352				
D16S539	12,12	12,13	12: 0.2775	13: 0.1335	<input type="text"/>	<input type="text"/>	<input type="text"/>
D18S51	14,15	14,19	14: 0.1610	15: 0.1589	<input type="text"/>	<input type="text"/>	<input type="text"/>
			19: 0.0466				
D19S433	14,14	14,14	14: 0.3538		<input type="text"/>	<input type="text"/>	<input type="text"/>
D21S11	29,31	29,32	29: 0.2076	31: 0.0763	<input type="text"/>	<input type="text"/>	<input type="text"/>
			32: 0.0169				
D22S1045	16,16	16,18	16: 0.3496	18: 0.0064	<input type="text"/>	<input type="text"/>	<input type="text"/>

Locus	Uncle	Nephew	Allele Frequencies		Formula Used	Allele Legend	Likelihood Ratio
CSF1PO	11,12	12,13	11: 0.2797	12: 0.3750	<input type="text"/>	<input type="text"/>	<input type="text"/>
			13: 0.0593				
FGA	21,25	21,22	21: 0.1525	22: 0.1653	<input type="text"/>	<input type="text"/>	<input type="text"/>
			25: 0.1186				
PentaD	9,11	9,13	9: 0.2426	11: 0.1553	<input type="text"/>	<input type="text"/>	<input type="text"/>
			13: 0.1447				
PentaE	12,12	7,7	7: 0.1165	12: 0.1695	<input type="text"/>	<input type="text"/>	<input type="text"/>
SE33	23.2,26.2	23.2,28.2	23.2: 0.0233	26.2: 0.0742	<input type="text"/>	<input type="text"/>	<input type="text"/>
			28.2: 0.0678				
TH01	9,9	7,9.3	7: 0.2966	9: 0.1462	<input type="text"/>	<input type="text"/>	<input type="text"/>
			9.3: 0.2182				
TPOX	8,8	8,8	8: 0.4852		<input type="text"/>	<input type="text"/>	<input type="text"/>
vWA	16,17	16,18	16: 0.2839	17: 0.2458	<input type="text"/>	<input type="text"/>	<input type="text"/>
			18: 0.1801				

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

2. Is the relationship of Uncle/Nephew 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)