



DNA Parentage

Test No. 22-5870/5 Summary Report

Each participant received a sample pack consisting of four blood samples representing a paternity case. Samples were collected from a mother, a son, and two potential fathers. Participants were requested to analyze the samples using their existing protocols. The test also included a paper kinship exercise where participants were requested to evaluate the provided DNA profiles and determine if a full sibling relationship was supported. Data were returned from 67 participants and are compiled into the following tables:

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

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

Manufacturer's Information

Each sample set was a collection of known blood samples, provided on either FTA Microcards or swabs, from four individuals (Items 1-4); a mother, a son, and two potential fathers. 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 of two individuals for comparison. Participants were requested to determine if a full sibling relationship claim was supported following the review of these profiles.

SAMPLE PREPARATION: All stains were prepared from human whole blood which was drawn into EDTA tubes. Item 1 was blood from a female (mother) donor, Item 2 was blood from a male (son) donor, Item 3 was blood from a male donor who was not the biological father of the Item 2 male, and Item 4 was blood from a male donor who was the biological father of the Item 2 male. Each FTA card was spotted with 75uL of blood, while each swab (two swabs per item) was spotted with 100uL of blood. The different 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 February 15th, 2022.

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

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

VERIFICATION: Laboratories that conducted predistribution analysis of the samples reported consistent results and associations.

Key to Test Substrates

5870 - FTA Microcards

5875 - Swabs

Amelogenin and STR Results

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

Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA	DYS391	DYS570	DYS576	Y Indel	
1	14,18.3	19,20	11,14	16,17	12,12	*
	8,12	12,15	14,15	21,22	8,12	11,12
	12,14	13,14	29,30	15,17	X,X	11,12
	24,24	9,13	11,14	22.2,30.2	6,9	8,8
	15,17	NM	NM	NM	NM	
2	14,18.3	19,20	14,15	16,17	12,13	*
	10,12	10,15	13,14	19,22	8,12	11,14
	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24	9,9	14,16	28.2,30.2	9,9.3	8,11
	15,17	11	17	17	2	
3	16.3,17.3	23,24	11,15	15,17	12,12	*
	8,9	13,13	13,16	20,20	11,11	11,12
	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12	19.2,29.2	7,9.3	8,10
	17,18	11	18	17	2	
4	14,15.3	17,20	14,15	16,17	13,13	*
	10,10	10,14	13,14	19,23	12,14	13,14
	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24	9,11	7,16	17,28.2	9.3,9.3	8,11
	15,17	11	17	17	2	

YSTR Results

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

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
2	35,38	14	11,14	13	29	*	11	13	13
	14	12	11	19	29	17	17	11	22
	*	12	13	17	17	21	23	10	11
3	36,37	15	13,16	12	29	24	11	11	14
	15	10	11	19	28	14	17	10	23
	38	10	11	18	17	20	24	13	11
4	35,38	14	11,14	13	29	*	11	13	13
	14	12	11	19	29	17	17	11	22
	*	12	*	17	17	21	23	*	11

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

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

Paternity Indices

Mode 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					

4PI - NIST STRBASE

3.88	1.805	8.389	2.23	7.007	*
3.903	4.878	1.626	4.009	1.28	19.011
3.405	0.811	3.539	2.615	*	0.747
3.723	2.256	9.77	6.561	2.9	1.983
2.569					

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

2.439-4.725	1.442-2.098	4.374-12.904	2.069-2.364	5.111-8.554	*
3.125-4.396	3.844-5.852	1.381-1.835	2.762-5.393	1.148-1.370	10.848-24.208
2.024-5.507	0.758-0.864	2.676-4.810	2.028-3.505	*	0.690-0.837
3.060-4.211	2.011-2.495	6.046-13.338	4.720-8.387	2.482-3.521	1.899-2.061
2.368-2.784					

4PI - FBI Popstats

3.06	1.669	9.615	2.256	6.622	*
3.453	*	1.485	4.6992	1.216	15.528
4.807	0.795	4.297	3.156	*	0.798
*	2.2563	9.765	7.215	3.284	1.96
2.623					

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

0-0.004	0-0.001	6.067-10.912	1.076-1.149	0-0.002	*
0-0.003	0-0.006	1.395-1.792	0-0.004	0-0.003	0-0.006
0-0.005	0-0.001	1.305-2.477	1.033-1.723	*	0-0.005
0-0.007	1.572-3.125	0-0.001	0-0.011	1.243-1.790	0
1.192-1.376					

* 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.

Summary Comments

The 22-5870/5 DNA Parentage test was designed to allow participants to assess their proficiency in the analysis and interpretation of four known blood samples. Item 1 was blood collected from a female donor (mother), Item 2 was blood collected from a male donor (son of the Item 1 female), Item 3 was blood collected from a male donor who is not the biological father of the Item 2 male, and Item 4 was blood collected from a male donor who is the biological father of the Item 2 male. Participants were requested to analyze the samples and provide allelic and statistical results as well as relationship conclusions. The test also included a paper kinship exercise where participants were requested to evaluate the provided DNA profiles and report the kinship index and relationship conclusions (Refer to the Manufacturer's Information for preparation details).

DNA Analysis:

All 67 participants who returned data reported STR results for all four items. For Item 1, all participants reported consistent data. For Item 2, all participants reported consistent data except for one who reported "14,16" at SE33 whereas consensus was "28.2,30.2". For Items 3 and 4, all participants reported consistent data.

For YSTR results, 34 of 36 participants reported consistent data for Items 2-4. The remaining two participants reported inconsistent alleles for a majority of loci.

Paternity DNA Statistics:

All 67 participants reported that the source of Item 4 could not be excluded as the biological father of Item 2. Of the participants that reported probability of paternity values, all reported 99.99% or higher. The most frequently reported population database was NIST STRBASE.

Kinship DNA Statistics:

There were 34 participants who responded for the paper kinship exercise. For the loci likelihood ratio (LR) data, four participants consistently reported lower values than the consensus, however these four participants reported using KinCALc software. Of the 34 participants, 26 (76%) reported a combined Kinship Index (KI) between 1,700,000,000 and 2,300,000,000. The remaining eight participants reported values below this range. All 34 participants reported that the claim of a full sibling relationship was supported.

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

2PPKL7-5875 PowerPlex® Fusion 6C						
	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24	9,13	11,14	22.2,30.2	6,9	8
	15,17	NR	NR	NR		
38NZJB-5875 PowerPlex® Fusion6C, GlobalFiler™ (bs-SEAL)						
	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24	9,13	11,14	22.2,30.2	6,9	8,8
	15,17					
3QF9G7-5875 GlobalFiler™						
	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24			22.2,30.2	6,9	8
	15,17					
3UJJC7-5870 Investigator® 26plex QS						
	14,18.3	19,20	11,14	16,17	12,12	11,18
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24	9,13	11,14	-	6,9	8,8
	15,17	-				
3ZPFV-5870 PowerPlex® 21						
	14,18.3	19,20		16,17	12,12	11,18
	8,12	12,15		21,22	8,12	11,12
1	12,14	13,14	29,30		X,X	11,12
	24,24	9,13	11,14		6,9	8,8
	15,17					
4LJ2B3-5870 PowerPlex® Fusion						
	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24	9,13	11,14		6,9	8
	15,17	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

4PHFYT-5870	GlobalFiler™					
	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24			22.2,30.2	6,9	8,8
	15,17	-			-	
67M4NX-5875	PowerPlex® Fusion 5C					
	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24	9,13	11,14		6,9	8
	15,17					
6XBMGX-5875	GlobalFiler™					
	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24			22.2,30.2	6,9	8,8
	15,17	no result			no result	
7KYYGZ-5870	GlobalFiler™ Express					
	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24			22.2,30.2	6,9	8,8
	15,17					
89L29P-5870	PowerPlex® 21					
	14,18.3	19,20		16,17	12,12	11,18
	8,12	12,15		21,22	8,12	11,12
1	12,14	13,14	29,30		X,X	11,12
	24,24	9,13	11,14		6,9	8,8
	15,17					
8HCKTP-5870	PowerPlex® Fusion					
	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24	9,13	11,14		6,9	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

8HPE9P-5870	GlobalFiler™ Express					
	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24			22.2,30.2	6,9	8
	15,17					
8MJBVV-5870	PowerPlex® Fusion 5C					
	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24	9,13	11,14		6,9	8,8
	15,17					
8W6EYN-5870	GlobalFiler™					
	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24			22.2,30.2	6,9	8,8
	15,17					
8W82HN-5870	PowerPlex® Fusion					
	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24	9,13	11,14		6,9	8
	15,17					
8WRKMV-5870	GlobalFiler™ Express					
	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24			22.2,30.2	6,9	8
	15,17	NM			NM	
8Z7HTW-5875	GlobalFiler™					
	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24			22.2,30.2	6,9	8,8
	15,17	No Results			No Results	

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

9C2VNM-5875 GlobalFiler™

	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24			22.2,30.2	6,9	8,8
	15,17					

9CGAVW-5875 PowerPlex® PP21

	14,18.3	19,20		16,17	12	11,18
	8,12	12,15		21,22	8,12	11,12
1	12,14	13,14	29,30		X	11,12
	24	9,13	11,14		6,9	8
	15,17					

A2ZQCZ-5875 PowerPlex® Fusion

	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24	9,13	11,14		6,9	8,8
	15,17	F,F				

A797LN-5870 PowerPlex® Fusion

	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24	9,13	11,14		6,9	8
	15,17					

AJHPGX-5870 PowerPlex® Fusion 6C System (DNA-View v29.52)

	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24	9,13	11,14	22.2,30.2	6,9	8,8
	15,17					

AL24KX-5870 GlobalFiler™ Express

	14,18.3	19,20	11,14	16,17	12	-
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24	-	-	22.2,30.2	6,9	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

BBZX7Q-5870	GlobalFiler™ Express					
	14,18.3	19,20	11,14	16,17	12	-
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24	-	-	22.2,30.2	6,9	8
	15,17	NM	-	-	NM	
BP2A2P-5875	GlobalFiler™					
	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24			22.2,30.2	6,9	8
	15,17	ND			ND	
CAH7VK-5870	PowerPlex® Fusion 6C					
	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24	9,13	11,14	22.2,30.2	6,9	8,8
	15,17					
CPVEVN-5875	GlobalFiler™					
	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24			22.2,30.2	6,9	8,8
	15,17					
CWV7U-5875	PowerPlex® 5C					
	14,18.3	19,20	11,14	16,17	12	--
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24	9,13	11,14	--	6,9	8
	15,17	--	--	--	--	
D934LR-5875	GlobalFiler™					
	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24			22.2,30.2	6,9	8,8
	15,17	no results			no results	

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

E2WR3Y-5875 Investigator® ESSplex SE QS (GeneMapper Software 5)

	14,18.3	19,20	11,14	16,17		
		12,15	14,15	21,22		11,12
1	12,14	13,14	29,30	15,17	X,X	
	24,24			22.2,30.2	6,9	
	15,17					

EGU2NK-5870 PowerPlex® Fusion

	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24	9,13	11,14		6,9	8
	15,17					

F7RZNK-5870 GlobalFiler™ Express

	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24			22.2,30.2	6,9	8
	15,17	NM			NM	

FAEAP-5870 GlobalFiler™ Express

	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24			22.2,30.2	6,9	8,8
	15,17					

G2RCKJ-5875 GlobalFiler™

	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24			22.2,30.2	6,9	8,8
	15,17					

GPHE2P-5870 PowerPlex® Fusion

	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24	9,13	11,14		6,9	8
	15,17	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

HA2ZXH-5875	GlobalFiler™					
	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24			22.2,30.2	6,9	8
	15,17	ND			ND	
HKGWYE-5870	PowerPlex® 21					
	14,18.3	19,20		16,17	12,12	11,18
	8,12	12,15		21,22	8,12	11,12
1	12,14	13,14	29,30		X,X	11,12
	24,24	9,13	11,14		6,9	8,8
	15,17					
HQ78DJ-5870	PowerPlex® Fusion					
	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24	9,13	11,14		6,9	8
	15,17	Inconclusive				
HXKBZC-5870	PowerPlex® Fusion					
	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24	9,13	11,14		6,9	8
	15,17					
JJ4FJF-5870	PowerPlex® Fusion 5C					
	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24	9,13	11,14		6,9	8
	15,17					
JPA9EB-5870	PowerPlex® Fusion					
	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24	9,13	11,14		6,9	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

KC2T6L-5875	PowerPlex® Fusion6C (Familias3)					
	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24	9,13	11,14	22.2,30.2	6,9	8,8
	15,17					
KT4P4B-5875	PowerPlex® F6C					
	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24	9,13	11,14	22.2,30.2	6,9	8
	15,17					
MBX6EL-5870	Identifiler® Direct					
		19,20		16,17	12	
	8,12	12,15			8,12	11,12
1	12,14	13,14	29,30		X,X	11,12
	24				6,9	8
	15,17					
MWEJWD-5875	GlobalFiler™					
	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24			22.2,30.2	6,9	8,8
	15,17					
N6MFEP-5870	GlobalFiler™, ForenSeq DNA Signature Prep					
	14,18.3	19,20	11,14	16,17	12,12	11,18
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24	9,13	11,14	22.2,30.2	6,9	8,8
	15,17	FEM	NR	NR	FEM	
NLWZCG-5875	GlobalFiler™					
	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24			22.2,30.2	6,9	8,8
	15,17	no results			no results	

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

P9KE48-5870	GlobalFiler™					
	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24			22.2,30.2	6,9	8,8
	15,17	-			-	
PAFW79-5870	PowerPlex® Fusion					
	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24	9,13	11,14		6,9	8
	15,17					
PKWGQ6-5870	PowerPlex® Fusion					
	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24	9,13	11,14		6,9	8
	15,17					
Q22BW6-5870	PowerPlex® Fusion					
	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24	9,13	11,14		6,9	8
	15,17					
Q3CARE-5870	PowerPlex® Fusion					
	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24	9,13	11,14		6,9	8
	15,17	NR				
QB3VXC-5870	GlobalFiler™					
	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24			22.2,30.2	6,9	8,8
	15,17	Not detected			Not detected	

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

QGPN67-5870 GlobalFiler™

	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24			22.2,30.2	6,9	8
	15,17					

QQZPQ7-5870 PowerPlex® 21

	14,18.3	19,20		16,17	12,12	11,18
	8,12	12,15		21,22	8,12	11,12
1	12,14	13,14	29,30		X,X	11,12
	24,24	9,13	11,14		6,9	8,8
	15,17					

RH3FY8-5870 PowerPlex® Fusion 5C

	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24	9,13	11,14		6,9	8
	15,17					

V24UKH-5870 GlobalFiler™

	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24			22.2,30.2	6,9	8,8
	15,17	FEM			FEM	

VAETFE-5870 PowerPlex® Fusion 6C

	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24	9,13	11,14	22.2,30.2	6,9	8,8
	15,17					

VWARH4-5870 PowerPlex® Fusion 6C

	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24	9,13	11,14	22.2,30.2	6,9	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

WB7A82-5870 GlobalFiler™

	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24			22.2,30.2	6,9	8,8
	15,17	-			-	

WCGDEX-5870 PowerPlex® 21

	14,18.3	19,20		16,17	12,12	11,18
	8,12	12,15		21,22	8,12	11,12
1	12,14	13,14	29,30		X,X	11,12
	24,24	9,13	11,14		6,9	8,8
	15,17					

WG9FM4-5870 GlobalFiler™ Express

	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24			22.2,30.2	6,9	8
	15,17	NM			NM	

X77HCA-5875 GlobalFiler™

	14,18.3	19,20	11,14	16,17	12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X	11,12
	24			22.2,30.2	6,9	8
	15,17	No Results			No Results	

XUTHH2-5875 GlobalFiler™

	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24			22.2,30.2	6,9	8,8
	15,17					

ZLXWP9-5875 PowerPlex® 5C

	14,18.3	19,20	11,14	16,17	12,12	
	8,12	12,15	14,15	21,22	8,12	11,12
1	12,14	13,14	29,30	15,17	X,X	11,12
	24,24	9,13	11,14		6,9	8,8
	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 1 - STR Results

ZYZM88-5870 Identifiler® Direct

		19,20		16,17	12	
	8,12	12,15			8,12	11,12
1	12,14	13,14	29,30		X,X	11,12
	24				6,9	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 2 - STR Results

2PPKL7-5875	PowerPlex® Fusion 6C					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24	9	14,16	28.2,30.2	9,9.3	8,11
	15,17	11	17	17		
38NZJB-5875	PowerPlex® Fusion6C, GlobalFiler™ (bsSEAL)					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24	9,9	14,16	28.2,30.2	9,9.3	8,11
	15,17	11	17	17	2	
3QF9G7-5875	GlobalFiler™					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24			28.2,30.2	9,9.3	8,11
	15,17	11			2	
3UEJC7-5870	Investigator® 26plex QS					
	14,18.3	19,20	14,15	16,17	12,13	11,18
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24	9,9	14,16	14,16	9,9.3	8,11
	15,17	11				
3ZPFEV-5870	PowerPlex® 21					
	14,18.3	19,20		16,17	12,13	11,18
	10,12	10,15		19,22	8,12	11,14
2	14,16	13,14	30,30		X,Y	11,12
	24,24	9,9	14,16		9,9.3	8,11
	15,17					
4LJ2B3-5870	PowerPlex® Fusion					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24	9	14,16		9,9.3	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 2 - STR Results

4PHFYT-5870	GlobalFiler™					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24			28.2,30.2	9,9.3	8,11
	15,17	11			2	
67M4NX-5875	PowerPlex® Fusion 5C					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24	9	14,16		9,9.3	8,11
	15,17	11				
6XBMGX-5875	GlobalFiler™					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24			28.2,30.2	9,9.3	8,11
	15,17	11			2	
7KYYGZ-5870	GlobalFiler™ Express					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24			28.2,30.2	9,9.3	8,11
	15,17	11			2	
89L29P-5870	PowerPlex® 21					
	14,18.3	19,20		16,17	12,13	11,18
	10,12	10,15		19,22	8,12	11,14
2	14,16	13,14	30,30		X,Y	11,12
	24,24	9,9	14,16		9,9.3	8,11
	15,17					
8HCKTP-5870	PowerPlex® Fusion					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24	9	14,16		9,9.3	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 2 - STR Results

8HPE9P-5870	GlobalFiler™ Express					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24			28.2,30.2	9,9.3	8,11
	15,17	11			2	
8MJBVV-5870	PowerPlex® Fusion 5C					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24	9,9	14,16		9,9.3	8,11
	15,17	11				
8W6EYN-5870	GlobalFiler™					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24			28.2,30.2	9,9.3	8,11
	15,17	11			2	
8W82HN-5870	PowerPlex® Fusion					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24	9	14,16		9,9.3	8,11
	15,17	11				
8WRKMV-5870	GlobalFiler™ Express					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24			28.2,30.2	9,9.3	8,11
	15,17	11			2	
8Z7HTW-5875	GlobalFiler™					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24			28.2,30.2	9,9.3	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 2 - STR Results

9C2VNM-5875 GlobalFiler™						
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24			28.2,30.2	9,9.3	8,11
	15,17	11			2	
9CGAVW-5875 PowerPlex® PP21						
	14,18.3	19,20		16,17	12,13	11,18
	10,12	10,15		19,22	8,12	11,14
2	14,16	13,14	30		X,Y	11,12
	24	9	14,16		9,9.3	8,11
	15,17					
A2ZQCZ-5875 PowerPlex® Fusion						
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24	9,9	14,16		9,9.3	8,11
	15,17	11,F				
A797LN-5870 PowerPlex® Fusion						
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24	9	14,16		9,9.3	8,11
	15,17	11				
AJHPGX-5870 PowerPlex® Fusion 6C System (DNA-View v29.52)						
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24	9,9	14,16	28.2,30.2	9,9.3	8,11
	15,17	11	17	17		
AL24KX-5870 GlobalFiler™ Express						
	14,18.3	19,20	14,15	16,17	12,13	-
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24	-	-	28.2,30.2	9,9.3	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 2 - STR Results

BBZX7Q-5870	GlobalFiler™ Express					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24			28.2,30.2	9,9.3	8,11
	15,17	11			2	
BP2A2P-5875	GlobalFiler™					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24			28.2,30.2	9,9.3	8,11
	15,17	11			2	
CAH7VK-5870	PowerPlex® Fusion 6C					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24	9,9	14,16	28.2,30.2	9,9.3	8,11
	15,17	11	17	17		
CPVEVN-5875	GlobalFiler™					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24			28.2,30.2	9,9.3	8,11
	15,17	11			2	
CWV7U-5875	PowerPlex® 5C					
	14,18.3	19,20	14,15	16,17	12,13	--
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24	9	14,16	--	9,9.3	8,11
	15,17	11	--	--	--	
D934LR-5875	GlobalFiler™					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24			28.2,30.2	9,9.3	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 2 - STR Results

E2WR3Y-5875 Investigator® ESSplex SE QS (GeneMapper Software 5)

	14,18.3	19,20	14,15	16,17		
		10,15	13,14	19,22		11,14
2	14,16	13,14	30,30	16,17	X,Y	
	24,24			28.2,30.2	9,9.3	
	15,17					

EGU2NK-5870 PowerPlex® Fusion

	14,18.3	19,20	14,15	16,17	12,13	
		10,12	10,15	13,14	19,22	8,12
2	14,16	13,14	30	16,17	X,Y	11,12
	24	9	14,16		9,9.3	8,11
	15,17	11				

F7RZNK-5870 GlobalFiler™ Express

	14,18.3	19,20	14,15	16,17	12,13	
		10,12	10,15	13,14	19,22	8,12
2	14,16	13,14	30	16,17	X,Y	11,12
	24			28.2,30.2	9,9.3	8,11
	15,17	11			2	

FAEAP-5870 GlobalFiler™ Express

	14,18.3	19,20	14,15	16,17	12,13	
		10,12	10,15	13,14	19,22	8,12
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24			28.2,30.2	9,9.3	8,11
	15,17	11			2	

G2RCKJ-5875 GlobalFiler™

	14,18.3	19,20	14,15	16,17	12,13	
		10,12	10,15	13,14	19,22	8,12
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24			28.2,30.2	9,9.3	8,11
	15,17	11			2	

GPHE2P-5870 PowerPlex® Fusion

	14,18.3	19,20	14,15	16,17	12,13	
		10,12	10,15	13,14	19,22	8,12
2	14,16	13,14	30	16,17	X,Y	11,12
	24	9	14,16		9,9.3	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 2 - STR Results

HA2ZXH-5875	GlobalFiler™					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24			28.2,30.2	9,9.3	8,11
	15,17	11			2	
HKGWYE-5870	PowerPlex® 21					
	14,18.3	19,20		16,17	12,13	11,18
	10,12	10,15		19,22	8,12	11,14
2	14,16	13,14	30,30		X,Y	11,12
	24,24	9,9	14,16		9,9.3	8,11
	15,17					
HQ78DJ-5870	PowerPlex® Fusion					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24	9	14,16		9,9.3	8,11
	15,17	Inconclusive				
HXKBZC-5870	PowerPlex® Fusion					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24	9	14,16		9,9.3	8,11
	15,17	11				
JJ4FJF-5870	PowerPlex® Fusion 5C					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24	9	14,16		9,9.3	8,11
	15,17	11				
JPA9EB-5870	PowerPlex® Fusion					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24	9	14,16		9,9.3	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 2 - STR Results

KC2T6L-5875	PowerPlex® Fusion6C (Familias3)					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24	9,9	14,16	28.2,30.2	9,9.3	8,11
	15,17	11	17	17		
KT4P4B-5875	PowerPlex® F6C					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24	9	14,16	28.2,30.2	9,9.3	8,11
	15,17	11	17	17		
MBX6EL-5870	Identifiler® Direct					
		19,20		16,17	12,13	
	10,12	10,15			8,12	11,14
2	14,16	13,14	30		X,Y	11,12
	24				9,9.3	8,11
	15,17					
MWEJWD-5875	GlobalFiler™					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24			28.2,30.2	9,9.3	8,11
	15,17	11			2	
N6MFEP-5870	GlobalFiler™, ForenSeq DNA Signature Prep					
	14,18.3	19,20	14,15	16,17	12,13	11,18
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24	9,9	14,16	28.2,30.2	9,9.3	8,11
	15,17	11	17	17	2	
NLWZCG-5875	GlobalFiler™					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24			28.2,30.2	9,9.3	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 2 - STR Results

P9KE48-5870	GlobalFiler™					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24			28.2,30.2	9,9.3	8,11
	15,17	11			2	
PAFW79-5870	PowerPlex® Fusion					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24	9	14,16		9,9.3	8,11
	15,17	11				
PKWQG6-5870	PowerPlex® Fusion					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24	9	14,16		9,9.3	8,11
	15,17	11				
Q22BW6-5870	PowerPlex® Fusion					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24	9	14,16		9,9.3	8,11
	15,17	11				
Q3CARE-5870	PowerPlex® Fusion					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24	9	14,16		9,9.3	8,11
	15,17	11				
QB3VXC-5870	GlobalFiler™					
	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24			28.2,30.2	9,9.3	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 2 - STR Results

QGPN67-5870 GlobalFiler™ Express

	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24			28.2,30.2	9,9.3	8,11
	15,17	11			2	

QQZPQ7-5870 PowerPlex® 21

	14,18.3	19,20		16,17	12,13	11,18
	10,12	10,15		19,22	8,12	11,14
2	14,16	13,14	30,30		X,Y	11,12
	24,24	9,9	14,16		9,9.3	8,11
	15,17					

RH3FY8-5870 PowerPlex® Fusion 5C

	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24	9	14,16		9,9.3	8,11
	15,17	11				

V24UKH-5870 GlobalFiler™

	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24			28.2,30.2	9,9.3	8,11
	15,17	11			2	

VAETFE-5870 PowerPlex® Fusion 6C

	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24	9,9	14,16	28.2,30.2	9,9.3	8,11
	15,17	11	17	17		

VWARH4-5870 PowerPlex® Fusion 6C

	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24	9	14,16	28.2,30.2	9,9.3	8,11
	15,17	11	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

WB7A82-5870 GlobalFiler™

	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24			28.2,30.2	9,9.3	8,11
	15,17	11			2	

WCGDEX-5870 PowerPlex® 21

	14,18.3	19,20		16,17	12,13	11,18
	10,12	10,15		19,22	8,12	11,14
2	14,16	13,14	30,30		X,Y	11,12
	24,24	9,9	14,16		9,9.3	8,11
	15,17					

WG9FM4-5870 GlobalFiler™ Express

	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24			28.2,30.2	9,9.3	8,11
	15,17	11			2	

X77HCA-5875 GlobalFiler™

	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30	16,17	X,Y	11,12
	24			28.2,30.2	9,9.3	8,11
	15,17	11			2	

XUTHH2-5875 GlobalFiler™

	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24			28.2,30.2	9,9.3	8,11
	15,17	11			2	

ZLXWP9-5875 PowerPlex® 5C

	14,18.3	19,20	14,15	16,17	12,13	
	10,12	10,15	13,14	19,22	8,12	11,14
2	14,16	13,14	30,30	16,17	X,Y	11,12
	24,24	9,9	14,16		9,9.3	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 2 - STR Results

ZYZM88-5870 Identifiler® Direct

		19,20		16,17	12,13	
	10,12	10,15			8,12	11,14
2	14,16	13,14	30		X,Y	11,12
	24				9,9.3	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

2PPKL7-5875	PowerPlex® Fusion 6C					
	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12	19,2,29,2	7,9,3	8,10
	17,18	11	18	17		
38NZJB-5875	PowerPlex® Fusion6C, GlobalFiler™ (bsSEAL)					
	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12	19,2,29,2	7,9,3	8,10
	17,18	11	18	17	2	
3QF9G7-5875	GlobalFiler™					
	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	11			2	
3UEJC7-5870	Investigator® 26plex QS					
	16,3,17,3	23,24	11,15	15,17	12,12	11,11
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12	-	7,9,3	8,10
	17,18	11				
3ZPFEV-5870	PowerPlex® 21					
	16,3,17,3	23,24		15,17	12,12	11,11
	8,9	13,13		20,20	11,11	11,12
3	10,19	12,15	30,31		X,Y	10,13
	20,21	9,12	7,12		7,9,3	8,10
	17,18					
4LJ2B3-5870	PowerPlex® Fusion					
	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12		7,9,3	8,10
	17,18	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

4PHFYT-5870	GlobalFiler™					
	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	11			2	
67M4NX-5875	PowerPlex® Fusion 5C					
	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12		7,9,3	8,10
	17,18	11				
6XBMGX-5875	GlobalFiler™					
	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	11			2	
7KYYGZ-5870	GlobalFiler™ Express					
	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	11			2	
89L29P-5870	PowerPlex® 21 (Kinship (Caucasian))					
	16,3,17,3	23,24		15,17	12,12	11,11
	8,9	13,13		20,20	11,11	11,12
3	10,19	12,15	30,31		X,Y	10,13
	20,21	9,12	7,12		7,9,3	8,10
	17,18					
8HCKTP-5870	PowerPlex® Fusion					
	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12		7,9,3	8,10
	17,18	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

8HPE9P-5870	GlobalFiler™ Express					
	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	11			2	
8MJBVV-5870	PowerPlex® Fusion 5C					
	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12		7,9,3	8,10
	17,18	11				
8W6EYN-5870	GlobalFiler™					
	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	11			2	
8W82HN-5870	PowerPlex® Fusion					
	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12		7,9,3	8,10
	17,18	11				
8WRKMV-5870	GlobalFiler™ Express					
	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	11			2	
8Z7HTW-5875	GlobalFiler™					
	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	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

9C2VNM-5875 GlobalFiler™

	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	11			2	

9CGAVW-5875 PowerPlex® PP21

	16,3,17,3	23,24		15,17	12	11
	8,9	13		20	11	11,12
3	10,19	12,15	30,31		X,Y	10,13
	20,21	9,12	7,12		7,9,3	8,10
	17,18					

A2ZQCZ-5875 PowerPlex® Fusion

	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12		7,9,3	8,10
	17,F	11,F				

A797LN-5870 PowerPlex® Fusion

	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12		7,9,3	8,10
	17,18	11				

AJHPGX-5870 PowerPlex® Fusion 6C System (DNA-View v29.52)

	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12	19,2,29,2	7,9,3	8,10
	17,18	11	18	17		

AL24KX-5870 GlobalFiler™ Express

	16,3,17,3	23,24	11,15	15,17	12	-
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	-	-	19,2,29,2	7,9,3	8,10
	17,18	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

BBZX7Q-5870	GlobalFiler™ Express					
	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	11			2	
BP2A2P-5875	GlobalFiler™					
	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	11			2	
CAH7VK-5870	PowerPlex® Fusion 6C					
	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12	19,2,29,2	7,9,3	8,10
	17,18	11	18	17		
CPVEVN-5875	GlobalFiler™					
	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	11			2	
CWV7U-5875	PowerPlex® 5C					
	16,3,17,3	23,24	11,15	15,17	12	--
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12	--	7,9,3	8,10
	17,18	11	--	--	--	
D934LR-5875	GlobalFiler™					
	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	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

E2WR3Y-5875 Investigator® ESSplex SE QS (GeneMapper Software 5)

	16,3,17,3	23,24	11,15	15,17		
		13,13	13,16	20,20		11,12
3	10,19	12,15	30,31	15,16	X,Y	
	20,21			19.2,29.2	7,9.3	
	17,18					

EGU2NK-5870 PowerPlex® Fusion

	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12		7,9.3	8,10
	17,18	11				

F7RZNK-5870 GlobalFiler™ Express

	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19.2,29.2	7,9.3	8,10
	17,18	11			2	

FAEAP-5870 GlobalFiler™ Express

	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19.2,29.2	7,9.3	8,10
	17,18	11			2	

G2RCKJ-5875 GlobalFiler™

	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19.2,29.2	7,9.3	8,10
	17,18	11			2	

GPHE2P-5870 PowerPlex® Fusion

	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12		7,9.3	8,10
	17,18	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

HA2ZXH-5875	GlobalFiler™					
	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	11			2	
HKGWYE-5870	PowerPlex® 21					
	16,3,17,3	23,24		15,17	12,12	11,11
	8,9	13,13		20,20	11,11	11,12
3	10,19	12,15	30,31		X,Y	10,13
	20,21	9,12	7,12		7,9,3	8,10
	17,18					
HQ78DJ-5870	PowerPlex® Fusion					
	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12		7,9,3	8,10
	17,18	Inconclusive				
HXKBZC-5870	PowerPlex® Fusion					
	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12		7,9,3	8,10
	17,18	11				
JJ4FJF-5870	PowerPlex® Fusion 5C					
	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12		7,9,3	8,10
	17,18	11				
JPA9EB-5870	PowerPlex® Fusion					
	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12		7,9,3	8,10
	17,18	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

KC2T6L-5875	PowerPlex® Fusion6C (Familia3)					
	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12	19,2,29,2	7,9,3	8,10
	17,18	11	18	17		
KT4P4B-5875	PowerPlex® F6C					
	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12	19,2,29,2	7,9,3	8,10
	17,18	11	18	17		
MBX6EL-5870	Identifiler® Direct					
		23,24		15,17	12	
	8,9	13			11	11,12
3	10,19	12,15	30,31		X,Y	10,13
	20,21				7,9,3	8,10
	17,18					
MWEJWD-5875	GlobalFiler™					
	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	11			2	
N6MFEP-5870	GlobalFiler™, ForenSeq DNA Signature Prep					
	16,3,17,3	23,24	11,15	15,17	12,12	11,11
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12	19,2,29,2	7,9,3	8,10
	17,18	11	18	17	2	
NLWZCG-5875	GlobalFiler™					
	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	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

P9KE48-5870		GlobalFiler™					
		16,3,17,3	23,24	11,15	15,17	12,12	
		8,9	13,13	13,16	20,20	11,11	11,12
3		10,19	12,15	30,31	15,16	X,Y	10,13
		20,21			19,2,29,2	7,9,3	8,10
		17,18	11			2	
PAFW79-5870		PowerPlex® Fusion					
		16,3,17,3	23,24	11,15	15,17	12	
		8,9	13	13,16	20	11	11,12
3		10,19	12,15	30,31	15,16	X,Y	10,13
		20,21	9,12	7,12		7,9,3	8,10
		17,18	11				
PKWQG6-5870		PowerPlex® Fusion					
		16,3,17,3	23,24	11,15	15,17	12	
		8,9	13	13,16	20	11	11,12
3		10,19	12,15	30,31	15,16	X,Y	10,13
		20,21	9,12	7,12		7,9,3	8,10
		17,18	11				
Q22BW6-5870		PowerPlex® Fusion					
		16,3,17,3	23,24	11,15	15,17	12	
		8,9	13	13,16	20	11	11,12
3		10,19	12,15	30,31	15,16	X,Y	10,13
		20,21	9,12	7,12		7,9,3	8,10
		17,18	11				
Q3CARE-5870		PowerPlex® Fusion					
		16,3,17,3	23,24	11,15	15,17	12	
		8,9	13	13,16	20	11	11,12
3		10,19	12,15	30,31	15,16	X,Y	10,13
		20,21	9,12	7,12		7,9,3	8,10
		17,18	11				
QB3VXC-5870		GlobalFiler™					
		16,3,17,3	23,24	11,15	15,17	12,12	
		8,9	13,13	13,16	20,20	11,11	11,12
3		10,19	12,15	30,31	15,16	X,Y	10,13
		20,21			19,2,29,2	7,9,3	8,10
		17,18	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

QGPN67-5870 GlobalFiler™ Express

	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	11			2	

QQZPQ7-5870 PowerPlex® 21

	16,3,17,3	23,24		15,17	12,12	11,11
	8,9	13,13		20,20	11,11	11,12
3	10,19	12,15	30,31		X,Y	10,13
	20,21	9,12	7,12		7,9,3	8,10
	17,18					

RH3FY8-5870 PowerPlex® Fusion 5C

	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12		7,9,3	8,10
	17,18	11				

V24UKH-5870 GlobalFiler™

	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	11			2	

VAETFE-5870 PowerPlex® Fusion 6C

	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12	19,2,29,2	7,9,3	8,10
	17,18	11	18	17		

VWARH4-5870 PowerPlex® Fusion 6C

	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12	19,2,29,2	7,9,3	8,10
	17,18	11	18	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

WB7A82-5870 GlobalFiler™

	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	11			2	

WCGDEX-5870 PowerPlex® 21

	16,3,17,3	23,24		15,17	12,12	11,11
	8,9	13,13		20,20	11,11	11,12
3	10,19	12,15	30,31		X,Y	10,13
	20,21	9,12	7,12		7,9,3	8,10
	17,18					

WG9FM4-5870 GlobalFiler™ Express

	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	11			2	

X77HCA-5875 GlobalFiler™

	16,3,17,3	23,24	11,15	15,17	12	
	8,9	13	13,16	20	11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	11			2	

XUTHH2-5875 GlobalFiler™

	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21			19,2,29,2	7,9,3	8,10
	17,18	11			2	

ZLXWP9-5875 PowerPlex® 5C

	16,3,17,3	23,24	11,15	15,17	12,12	
	8,9	13,13	13,16	20,20	11,11	11,12
3	10,19	12,15	30,31	15,16	X,Y	10,13
	20,21	9,12	7,12		7,9,3	8,10
	17,18	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

ZYXM88-5870		Identifiler® Direct				
		23,24		15,17	12	
		8,9	13		11	11,12
3		10,19	12,15	30,31	X,Y	10,13
		20,21			7,9,3	8,10
		17,18				

TABLE 1

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

Item 4 - STR Results

2PPKL7-5875	PowerPlex® Fusion 6C					
	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24	9,11	7,16	17,28.2	9.3	8,11
	15,17	11	17	17		
38NZJB-5875	PowerPlex® Fusion6C, GlobalFiler™ (bsSEAL)					
	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24	9,11	7,16	17,28.2	9.3,9.3	8,11
	15,17	11	17	17	2	
3QF9G7-5875	GlobalFiler™					
	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24			17,28.2	9.3	8,11
	15,17	11			2	
3UEJC7-5870	Investigator® 26plex QS					
	14,15.3	17,20	14,15	16,17	13,13	11,17
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24	9,11	7,16	-	9.3,9.3	8,11
	15,17	11				
3ZPFEV-5870	PowerPlex® 21					
	14,15.3	17,20		16,17	13,13	11,17
	10,10	10,14		19,23	12,14	13,14
4	16,18	14,17	30,30		X,Y	10,11
	22,24	9,11	7,16		9.3,9.3	8,11
	15,17					
4LJ2B3-5870	PowerPlex® Fusion					
	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24	9,11	7,16		9.3	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 4 - STR Results

4PHFYT-5870	GlobalFiler™					
	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24			17,28.2	9.3,9.3	8,11
	15,17	11			2	
67M4NX-5875	PowerPlex® Fusion 5C					
	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24	9,11	7,16		9.3	8,11
	15,17	11				
6XBMGX-5875	GlobalFiler™					
	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24			17,28.2	9.3,9.3	8,11
	15,17	11			2	
7KYYGZ-5870	GlobalFiler™ Express					
	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24			17,28.2	9.3,9.3	8,11
	15,17	11			2	
89L29P-5870	PowerPlex® 21 (Kinship (Caucasian))					
	14,15.3	17,20		16,17	13,13	11,17
	10,10	10,14		19,23	12,14	13,14
4	16,18	14,17	30,30		X,Y	10,11
	22,24	9,11	7,16		9.3,9.3	8,11
	15,17					
8HCKTP-5870	PowerPlex® Fusion					
	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24	9,11	7,16		9.3	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 4 - STR Results

8HPE9P-5870	GlobalFiler™ Express					
	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24			17,28.2	9.3	8,11
	15,17	11			2	
8MJBVV-5870	PowerPlex® Fusion 5C					
	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24	9,11	7,16		9.3,9.3	8,11
	15,17	11				
8W6EYN-5870	GlobalFiler™					
	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24			17,28.2	9.3,9.3	8,11
	15,17	11			2	
8W82HN-5870	PowerPlex® Fusion					
	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24	9,11	7,16		9.3	8,11
	15,17	11				
8WRKMV-5870	GlobalFiler™ Express					
	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24			17,28.2	9.3	8,11
	15,17	11			2	
8Z7HTW-5875	GlobalFiler™					
	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24			17,28.2	9.3,9.3	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 4 - STR Results

9C2VNM-5875 GlobalFiler™						
	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24			17,28.2	9.3,9.3	8,11
	15,17	11			2	
9CGAVW-5875 PowerPlex® PP21						
	14,15.3	17,20		16,17	13	11,17
	10	10,14		19,23	12,14	13,14
4	16,18	14,17	30		X,Y	10,11
	22,24	9,11	7,16		9.3	8,11
	15,17					
A2ZQCZ-5875 PowerPlex® Fusion						
	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24	9,11	7,16		9.3,9.3	8,11
	15,17	11,F				
A797LN-5870 PowerPlex® Fusion						
	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24	9,11	7,16		9.3	8,11
	15,17	11				
AJHPGX-5870 PowerPlex® Fusion 6C System (DNA-View v29.52)						
	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24	9,11	7,16	17,28.2	9.3,9.3	8,11
	15,17	11	17	17		
AL24KX-5870 GlobalFiler™ Express						
	14,15.3	17,20	14,15	16,17	13	-
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24	-	-	17,28.2	9.3	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 4 - STR Results

BBZX7Q-5870	GlobalFiler™ Express					
	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24			17,28.2	9.3	8,11
	15,17	11			2	
BP2A2P-5875	GlobalFiler™					
	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24			17,28.2	9.3	8,11
	15,17	11			2	
CAH7VK-5870	PowerPlex® Fusion 6C					
	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24	9,11	7,16	17,28.2	9.3,9.3	8,11
	15,17	11	17	17		
CPVEVN-5875	GlobalFiler™					
	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24			17,28.2	9.3,9.3	8,11
	15,17	11			2	
CWV7U-5875	PowerPlex® 5C					
	14,15.3	17,20	14,15	16,17	13	--
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24	9,11	7,16	--	9.3	8,11
	15,17	11	--	--	--	
D934LR-5875	GlobalFiler™					
	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24			17,28.2	9.3,9.3	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 4 - STR Results

E2WR3Y-5875 Investigator® ESSplex SE QS (GeneMapper Software 5)

	14,15.3	17,20	14,15	16,17		
		10,14	13,14	19,23		13,14
4	16,18	14,17	30,30	16,16	X,Y	
	22,24			17,28.2	9.3,9.3	
	15,17					

EGU2NK-5870 PowerPlex® Fusion

	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24	9,11	7,16		9.3	8,11
	15,17	11				

F7RZNK-5870 GlobalFiler™ Express

	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24			17,28.2	9.3	8,11
	15,17	11			2	

FAEAP-5870 GlobalFiler™ Express

	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24			17,28.2	9.3,9.3	8,11
	15,17	11			2	

G2RCKJ-5875 GlobalFiler™

	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24			17,28.2	9.3,9.3	8,11
	15,17	11			2	

GPHE2P-5870 PowerPlex® Fusion

	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24	9,11	7,16		9.3	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 4 - STR Results

HA2ZXH-5875	GlobalFiler™					
	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24			17,28.2	9.3	8,11
	15,17	11			2	
HKGWYE-5870	PowerPlex® 21					
	14,15.3	17,20		16,17	13,13	11,17
	10,10	10,14		19,23	12,14	13,14
4	16,18	14,17	30,30		X,Y	10,11
	22,24	9,11	7,16		9.3,9.3	8,11
	15,17					
HQ78DJ-5870	PowerPlex® Fusion					
	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24	9,11	7,16		9.3	8,11
	15,17	Inconclusive				
HXKBZC-5870	PowerPlex® Fusion					
	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24	9,11	7,16		9.3	8,11
	15,17	11				
JJ4FJF-5870	PowerPlex® Fusion 5C					
	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24	9,11	7,16		9.3	8,11
	15,17	11				
JPA9EB-5870	PowerPlex® Fusion					
	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24	9,11	7,16		9.3	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 4 - STR Results

KC2T6L-5875	PowerPlex® Fusion6C (Familias3)					
	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24	9,11	7,16	17,28.2	9.3,9.3	8,11
	15,17	11	17	17		
KT4P4B-5875	PowerPlex® F6C					
	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24	9,11	7,16	17,28.2	9.3	8,11
	15,17	11	17	17		
MBX6EL-5870	Identifiler® Direct					
		17,20		16,17	13	
	10	10,14			12,14	13,14
4	16,18	14,17	30		X,Y	10,11
	22,24				9.3	8,11
	15,17					
MWEJWD-5875	GlobalFiler™					
	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24			17,28.2	9.3,9.3	8,11
	15,17	11			2	
N6MFEP-5870	GlobalFiler™, ForenSeq DNA Signature Prep					
	14,15.3	17,20	14,15	16,17	13,13	11,17
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24	9,11	7,16	17,28.2	9.3,9.3	8,11
	15,17	11	17	17	2	
NLWZCG-5875	GlobalFiler™					
	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24			17,28.2	9.3,9.3	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 4 - STR Results

P9KE48-5870	GlobalFiler™					
	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24			17,28.2	9.3,9.3	8,11
	15,17	11			2	
PAFW79-5870	PowerPlex® Fusion					
	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24	9,11	7,16		9.3	8,11
	15,17	11				
PKWQG6-5870	PowerPlex® Fusion					
	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24	9,11	7,16		9.3	8,11
	15,17	11				
Q22BW6-5870	PowerPlex® Fusion					
	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24	9,11	7,16		9.3	8,11
	15,17	11				
Q3CARE-5870	PowerPlex® Fusion					
	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24	9,11	7,16		9.3	8,11
	15,17	11				
QB3VXC-5870	GlobalFiler™					
	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24			17,28.2	9.3,9.3	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 4 - STR Results

QGPN67-5870 GlobalFiler™

	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24			17,28.2	9.3	8,11
	15,17	11			2	

QQZPQ7-5870 PowerPlex® 21

	14,15.3	17,20		16,17	13,13	11,17
	10,10	10,14		19,23	12,14	13,14
4	16,18	14,17	30,30		X,Y	10,11
	22,24	9,11	7,16		9.3,9.3	8,11
	15,17					

RH3FY8-5870 PowerPlex® Fusion 5C

	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24	9,11	7,16		9.3	8,11
	15,17	11				

V24UKH-5870 GlobalFiler™

	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24			17,28.2	9.3,9.3	8,11
	15,17	11			2	

VAETFE-5870 PowerPlex® Fusion 6C

	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24	9,11	7,16	17,28.2	9.3,9.3	8,11
	15,17	11	17	17		

VWARH4-5870 PowerPlex® Fusion 6C

	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24	9,11	7,16	17,28.2	9.3	8,11
	15,17	11	17	17		

TABLE 1

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

Item 4 - STR Results

WB7A82-5870 GlobalFiler™

	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24			17,28.2	9,3,9.3	8,11
	15,17	11			2	

WCGDEX-5870 PowerPlex® 21

	14,15.3	17,20		16,17	13,13	11,17
	10,10	10,14		19,23	12,14	13,14
4	16,18	14,17	30,30		X,Y	10,11
	22,24	9,11	7,16		9,3,9.3	8,11
	15,17					

WG9FM4-5870 GlobalFiler™ Express

	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24			17,28.2	9,3	8,11
	15,17	11			2	

X77HCA-5875 GlobalFiler™

	14,15.3	17,20	14,15	16,17	13	
	10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30	16	X,Y	10,11
	22,24			17,28.2	9,3	8,11
	15,17	11			2	

XUTHH2-5875 GlobalFiler™

	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24			17,28.2	9,3,9.3	8,11
	15,17	11			2	

ZLXWP9-5875 PowerPlex® 5C

	14,15.3	17,20	14,15	16,17	13,13	
	10,10	10,14	13,14	19,23	12,14	13,14
4	16,18	14,17	30,30	16,16	X,Y	10,11
	22,24	9,11	7,16		9,3,9.3	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 4 - STR Results

ZYZM88-5870 Identifiler® Direct

		17,20		16,17	13	
	10	10,14			12,14	13,14
4	16,18	14,17	30		X,Y	10,11
	22,24				9.3	8,11
	15,17					

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

2PPKL7-5875	Laboratory Specific Database	0.000	0.000	9.615	1.128	0.000	
		0.000	0.000	1.485	0.000	0.000	0.000
3PI		0.000	0.000	2.149	1.578		0.000
		0.000	2.127	0.000	0.000	1.642	0.000
		1.312					
3QF9G7-5875	NIST-STRBASE	0	0	8.3949	1.1142	0	
		0	0	1.6261	0	0	0
3PI		0	0	1.7696	1.3080		0
		0			0	1.4498	0
		1.2847					
3UEJC7-5870	NIST-STRBASE	0	0	8.39	1.11	0	
		0	0	1.63	0	0	0
3PI		0	0	1.77	1.31		0
		0	2.26		-	1.45	0
		1.28					
4PHFYT-5870	FBI PopStats			9.6154	1.1284		
				1.4854			
3PI				2.1487	1.5783		
						1.6420	
		1.3116					
6XBMGX-5875	NIST-STRBASE	0	0	7.46	1.09	0	
		0	0	1.64	0	0	0
3PI		0	0	1.72	1.33		0
		0			0	1.47	0
		1.24					
89L29P-5870	NIST-STRBASE	0	0		1.1143	0	2.5974
		0	0		0	0	0
3PI		0	0	1.7699			0
		0	2.2563	0		1.4497	0
		1.2847					
8HPE9P-5870	FBI PopStats			9.6154	1.1284		
				1.4854			
3PI				2.1487	1.5783		
						1.6420	
		1.3116					

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

8MJBVV-5870	NIST-STRBASE					
	0.00	0.00	8.47	1.10	0.00	
	0.00	0.00	1.59	0.00	0.00	0.00
3PI	0.00	0.00	1.74	1.32		0.00
	0.00	2.21	0.00		1.42	0.00
	1.24					

8W6EYN-5870	[Ethnicity] Pop. Database					
	exc	exc			exc	
	exc	exc		exc	exc	exc
3PI	exc	exc				exc
	exc		exc			exc

8WRKMV-5870	NIST-STRBASE					
	0.0028	0.0010	8.3892	1.1143	0.0010	
	0.0020	0.0040	1.6260	0.0028	0.0020	0.0040
3PI	0.0030	0.0010	1.7699	1.3078		0.0030
	0.0041			0.0064	1.4497	0.0001
	1.2846					

8Z7HTW-5875	NIST-STRBASE					
	0	0	7.46	1.09	0	
	0	0	1.64	0	0	0
3PI	0	0	1.72	1.33		0
	0			0	1.47	0
	1.24					

9CGAWW-5875	Promega					
	0	0		1.1143	0	2.5974
	0	0		0	0	0
3PI	0	0	1.7699			0
	0	2.2563	0		1.4497	0
	1.2847					

AJHPGX-5870	NIST-STRBASE					
	0	0	8.3953	1.1142	0	
	0	0	1.6261	0	0	0
3PI	0	0	1.7696	1.3080		0
	0	2.2563	0	0	1.4498	0
	2.5694					

AL24KX-5870	NIST-STRBASE					
	0.0028	0.0012	8.3892	1.1143	0.0016	-
	0.0016	0.0028	1.6260	0.0028	0.0019	0.0020
3PI	0.0036	0.0011	1.7699	1.3078		0.0022
	0.0048	-	-	0.0064	1.4496	0.0007
	1.2846					

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

BBZX7Q-5870	NIST-STRBASE					
	0.0028	0.0010	8.3892	1.1143	0.0010	
	0.0020	0.0040	1.6260	0.0028	0.0020	0.0040
3PI	0.0030	0.0010	1.7699	1.3078		0.0030
	0.0041			0.0064	1.4497	0.0001
	1.2846					
CWV7U-5875	FBI PopStats, Promega/NIST					
	--	--	8.86	1.12	--	--
	--	--	1.71	--	--	--
3PI	--	--	2.14	1.29		--
	--	2.88	--	--	1.63	--
	1.32					
D934LR-5875	NIST-STRBASE					
	0.00	0.00	7.46	1.09	0.00	
	0.00	0.00	1.64	0.00	0.00	0.00
3PI	0.00	0.00	1.72	1.33		0.00
	0.00			0.00	1.47	0.00
	N/A					
E2WR3Y-5875	Laboratory specific database					
	0	0	8.395	1.061		
		0	1.622	0		
3PI	0	0	2.175	1.308		
	0			0	1.626	
	1.271					
F7RZNK-5870	NIST-STRBASE					
	0.0028	0.0010	8.3892	1.1143	0.0010	
	0.0020	0.0040	1.6260	0.0028	0.0020	0.0040
3PI	0.0030	0.0010	1.7699	1.3078		0.0030
	0.0041			0.0064	1.4497	0.0001
	1.2846					
HQ78DJ-5870	FBI PopStats, Laboratory Specific Database					
		0.00100		1.12	0.00100	
	0.00200	0.00400			0.00200	0.00400
3PI	0.00300	0.00100	2.14			0.00300
	0.00598	2.88	0.00100		1.63	0.000140
	1.32					
KC2T6L-5875	NIST-STRBASE					
	8.3E-06	9.8E-06	6.6E+00	1.1E+00	2.1E-03	
	6.6E-04	2.0E-05	1.6E+00	2.1E-05	7.2E-04	8.6E-04
3PI	6.0E-06	6.1E-05	1.6E+00	1.3E+00		1.7E-03
	2.0E-08	2.1E+00	1.8E-07	8.7E-04	1.4E+00	2.7E-04
	1.2E+00					

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

NLWZCG-5875	NIST-STRBASE					
		0	0	7.46	1.09	0
		0	0	1.64	0	0
3PI		0	0	1.72	1.33	0
		0			0	1.47
		1.24				
P9KE48-5870	FBI PopStats					
			9.61	1.12		
			1.48			
3PI			2.14	1.57		
					1.64	
		1.31				
PKWQG6-5870	FBI PopStats					
			8.3893	1.1143		
			1.6260			
3PI			1.7699	1.3079		
		2.2563			1.4497	
		1.2847				
QGP67-5870	FBI PopStats					
			9.6154	1.1284		
			1.4854			
3PI			2.1487	1.5783		
					1.6420	
		1.3116				
WB7A82-5870	FBI PopStats					
		-	9.615	1.128	-	
		-	1.485	-	-	-
3PI		-	2.149	1.578	-	-
		-			1.642	-
		1.312				
WG9FM4-5870	NIST-STRBASE					
		0.0028	0.0010	8.3892	1.1143	0.0010
		0.0020	0.0040	1.6260	0.0028	0.0020
3PI		0.0030	0.0010	1.7699	1.3078	0.0030
		0.0041			0.0064	1.4497
		1.2846				
ZLXWP9-5875	FBI PopStats					
		0	0	8.3893	1.1284	0
		0	0	1.6260	0	0
3PI		0	0	2.1542	1.3079	0
		0	2.3585	0	1.6420	0
		1.3333				

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					

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ZYZM88-5870	NIST-STRBASE				
		0.0033		1.1143	0.0010
		0.0020	0.0040		0.0020 0.0040
3PI		0.0030	0.0010	1.7699	0.0030
		0.0041			1.4497 0.0001
		1.2847			

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

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2PPKL7-5875	Laboratory Specific Database					
	3.060	1.669	9.615	2.257	6.623	
	3.453	4.591	1.485	4.699	1.217	15.528
4PI	4.808	0.795	4.297	3.157		0.798
	3.608	2.127	11.211	7.215	3.284	1.961
	2.623					
38NZJB-5875	NIST-STRBASE					
	3.54	1.99	1.16	2.17	6.25	
	3.82	6.58	1.82	4.43	1.24	1.77E+01
4PI	3.72	8.56E-01	4.17	2.97		7.79E-01
	3.71	2.40	1.20E+01	6.48	3.27	2.02
	2.66					
3QF9G7-5875	NIST-STRBASE					
	3.8817	1.8050	8.3949	2.2284	7.0097	
	3.9027	4.8785	1.6261	4.0112	1.2847	18.9970
4PI	3.4058	0.8112	3.5392	2.6160		0.7474
	3.7216			6.5634	2.8996	1.9835
	2.5694					
3UEJC7-5870	NIST-STRBASE					
	3.88	1.81	8.39	2.23	7.01	-
	3.90	4.88	1.63	4.01	1.28	19.01
4PI	3.41	0.81	3.54	2.62		0.75
	3.72	2.26	9.77	-	2.90	1.98
	2.57					
4LJ2B3-5870	NIST-STRBASE					
	3.8819	1.8050	8.3892	2.2286	7.0077	
	3.9032	4.8780	1.6260	4.0096	1.2846	19.0114
4PI	3.4059	0.8112	3.5398	2.6157		0.7473
	3.7230	2.2563	9.7656		2.8993	1.9833
	2.5693					
4PHFYT-5870	FBI PopStats					
	3.0600	1.6694	9.6154	2.2568	6.6225	
	3.4530	4.5914	1.4854	4.6992	1.2168	15.528
4PI	4.8077	0.79529	4.2974	3.1566		0.79847
	3.6075			7.2150	3.2841	1.9608
	2.6233					
67M4NX-5875	FBI PopStats					
	3.0600	1.6694	9.6154	2.2568	6.6225	
	3.4530	4.5914	1.4854	4.6992	1.2168	15.528
4PI	4.8077	0.79529	4.2974	3.1566		0.79847
	3.6075	2.1268	11.211		3.2841	1.9608
	2.6233					

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

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6XBMGX-5875	NIST-STRBASE					
	3.27	1.69	7.46	2.13	6.39	
	3.77	4.62	1.64	3.86	1.24	14.22
4PI	3.32	0.81	3.33	2.59		0.74
	3.16			6.03	2.85	1.99
	2.42					
7KYYGZ-5870	NIST-STRBASE					
	3.88	1.81	8.40	2.23	7.01	
	3.90	4.88	1.63	4.01	1.28	19.00
4PI	3.41	0.81	3.54	2.62		0.75
	3.72			6.56	2.90	1.98
	2.57					
89L29P-5870	NIST-STRBASE					
	3.8820	1.8051		2.2287	7.0077	1.2987
	3.9032	4.8780		4.0096	1.2847	19.0114
4PI	3.4060	0.8113	3.5398			0.7474
	3.7230	2.2563	9.7656		2.8994	1.9833
	2.5694					
8HCKTP-5870	FBI PopStats					
	3.8820	1.8051	8.3893	2.2287	7.0077	
	3.9032	4.8780	1.6260		1.2847	19.011
4PI	3.4060	0.81129	3.5398	2.6157		0.74738
	3.7230	2.2563	9.7656		2.8994	1.9833
	2.5694					
8HPE9P-5870	FBI PopStats					
	3.0600	1.6694	9.6154	2.2568	6.6225	
	3.4530	4.5914	1.4854		1.2168	15.528
4PI	4.8077	0.79529	4.2974	3.1566		0.79847
	3.6075			7.2150	3.2841	1.9608
	2.6233					
8MJBVV-5870	NIST-STRBASE					
	3.71	1.76	8.57	2.28	6.87	
	3.83	4.78	1.65	3.93	1.24	18.6
4PI	3.34	0.792	3.59	2.56		0.735
	3.65	2.21	9.57		2.84	2.02
	2.72					
8W6EYN-5870	[Ethnicity] Pop. Database					
	3.394	1.840	10.776	2.242	6.212	
	4.046	4.437	1.714	4.093	1.225	14.667
4PI	4.400	0.829	4.191	3.171		0,813
	3.799			5.029	3.070	2.027
	2.736					

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

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8W82HN-5870	FBI PopStats					
		3.8820	1.8051	8.3893	2.2287	7.0077
		3.9032	4.8780	1.6260		19.011
4PI		3.4060	0.81129	3.5398	2.6157	0.74738
		3.7230	2.2563	9.7656		1.9833
		2.5694				
8WRKMV-5870	NIST-STRBASE					
		3.8819	1.8050	8.3892	2.2286	7.0077
		3.9032	4.8780	1.6260	4.0096	19.0114
4PI		3.4059	0.8112	3.5398	2.6157	0.7473
		3.7230		6.5616	2.8993	1.9833
		2.5693				
8Z7HTW-5875	NIST-STRBASE					
		3.27	1.69	7.46	2.13	6.39
		3.77	4.62	1.64	N/A	14.2
4PI		3.32	0.805	3.33	2.59	0.744
		3.16		6.03	2.85	1.99
		2.42				
9C2VNM-5875	Local Caucasian Database					
		2.9284	1.7220	9.2067	2.1389	5.7422
		3.8914	4.2365	1.7238	3.9332	11.7714
4PI		4.2041	0.8211	3.8685	3.1007	0.8061
		3.2125			4.7493	2.0259
		2.5630				
9CGAWW-5875	Promega					
		3.8820	1.8051		2.2287	7.0077
		3.9032	4.8780		4.0096	19.0114
4PI		3.4060	0.8113	3.5398		0.7474
		3.7230	2.2563	9.7656		1.9833
		2.5694				
A2ZQCZ-5875	NIST-STRBASE					
		3.47	2.03	12.1	2.24	7.00
		3.90	5.10	1.60	4.62	17.2
4PI		3.84	0.84	3.87	2.71	0.747
		3.84	2.25	9.76		1.98
		2.69				
A797LN-5870	NIST-STRBASE					
		3.88	1.81	8.39	2.23	7.01
		3.90	4.88	1.63		19.0
4PI		3.41	0.811	3.54	2.62	0.747
		3.72	2.26	9.77		1.98
		2.57				

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

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AJHPGX-5870	NIST-STRBASE					
	3.8817	1.8050	8.3953	2.2284	7.0097	
	3.9027	4.8784	1.6261	4.0111	1.2847	19.0000
4PI	3.4057	0.8112	3.5392	2.6159		0.7474
	3.7216	2.2563	9.7568	6.5636	2.8996	1.9835
	2.5694					
AL24KX-5870	NIST-STRBASE					
	3.8819	1.8050	8.3892	2.2286	7.0077	-
	3.9032	4.8780	1.6260	4.0096	1.2846	19.0114
4PI	3.4059	0.8112	3.5398	2.6157		0.7473
	3.7230	-	-	6.5616	2.8993	1.9833
	2.5693					
BBZX7Q-5870	NIST-STRBASE					
	3.8819	1.8050	8.3892	2.2286	7.0077	
	3.9032	4.8780	1.6260	4.0096	1.2846	19.0114
4PI	3.4059	0.8112	3.5398	2.6157		0.7473
	3.7230			6.5616	2.8993	1.9833
	2.5693					
BP2A2P-5875	NIST-STRBASE					
	3.8820	1.8051	8.3893	2.2287	7.0077	
	3.9032	4.8780	1.6260		1.2847	19.011
4PI	3.4060	0.81129	3.5398	2.6157		0.74738
	3.7230			6.5617	2.8994	1.9833
	2.5694					
CAH7VK-5870	FBI PopStats					
	3.0600	1.6694	9.6154	2.2568	6.6225	
	3.4530	4.5914	1.4854	4.6992	1.2168	15.528
4PI	4.8077	0.79529	4.2974	3.1566		0.79847
	3.6075	2.1268	11.211	7.2150	3.2841	1.9608
	2.6233					
CPVEVN-5875	FBI PopStats					
	3.0600	1.6694	9.6154	2.2568	6.6225	
	3.4530	4.5914	1.4854		1.2168	15.528
4PI	4.8077	0.79529	4.2974	3.1566		0.79847
	3.6075			7.2150	3.2841	1.9608
	2.6233					
CWV7U-5875	FBI PopStats, Promega/NIST					
	3.81	1.64	8.86	2.24	6.74	--
	3.43	4.79	1.71	4	1.22	14.5
4PI	4.57	0.803	4.27	2.57		0.792
	3.57	2.88	8.13	--	3.26	1.94
	2.64					

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

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D934LR-5875	NIST-STRBASE					
	3.27	1.69	7.46	2.13	6.39	
	3.77	4.62	1.64	N/A	1.24	14.2
4PI	3.32	0.805	3.33	2.59		0.744
	3.16			6.03	2.85	1.99
	2.42					
E2WR3Y-5875	Laboratory specific database					
	3.882	2.045	8.395	2.122		
		8.607	1.622	4.011		18.212
4PI	3.327	0.871	4.351	2.616		
	3.894			6.573	3.252	
	2.542					
EGU2NK-5870	NIST-STRBASE					
	3.88	1.81	8.39	2.23	7.01	
	3.90	4.88	1.63		1.28	19.0
4PI	3.41	0.811	3.54	2.62		0.747
	3.72	2.26	9.77		2.90	1.98
	2.57					
F7RZNK-5870	NIST-STRBASE					
	3.8819	1.8050	8.3892	2.2286	7.0077	
	3.9032	4.8780	1.6260	4.0096	1.2846	19.0114
4PI	3.4059	0.8112	3.5398	2.6157		0.7473
	3.7230			6.5616	2.8993	1.9833
	2.5693					
FAREAP-5870	FBI PopStats					
	3.8820	1.8051	8.3893	2.2287	7.0077	
	3.9032	4.8780	1.6260	4.0096	1.2847	19.011
4PI	3.4060	0.81129	3.5398	2.6157		0.74738
	3.7230			6.5617	2.8994	1.9833
	2.5694					
G2RCKJ-5875	FBI PopStats					
	3.0600	1.6694	9.6154	2.2568	6.6225	
	3.4530	4.5914	1.4854		1.2168	15.528
4PI	4.8077	0.79529	4.2974	3.1566		0.79847
	3.6075			7.2150	3.2841	1.9608
	2.6233					
GPHE2P-5870	NIST-STRBASE					
	3.8819	1.8050	8.3892	2.2286	7.0077	
	3.9032	4.8780	1.6260	4.0096	1.2846	19.0114
4PI	3.4059	0.8112	3.5398	2.6157		0.7473
	3.7230	2.2563	9.7656		2.8993	1.9833
	2.5693					

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

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HA2ZXH-5875	NIST-STRBASE					
	3.8820	1.8051	8.3893	2.2287	7.0077	
	3.9032	4.8780	1.6260		1.2847	19.011
4PI	3.4060	0.81129	3.5398	2.6157		0.74738
	3.7230			6.5617	2.8994	1.9833
	2.5694					
HKGWYE-5870	NIST-STRBASE					
	3.881	1.805		2.228	7.009	1.298
	3.902	4.878		4.011	1.284	19.000
4PI	3.405	0.811	3.539			0.747
	3.721	2.256	9.756		2.899	1.983
	2.569					
HQ78DJ-5870	FBI PopStats, Laboratory Specific Database					
		1.64		2.24	6.74	
	3.42	4.79			1.21	14.5
4PI	4.57	0.803	4.27			0.795
	3.57	2.88	9.58		3.26	1.96
	2.64					
HXKBZC-5870	FBI PopStats					
	3.8820	1.8051	8.3893	2.2287	7.0077	
	3.9032	4.8780	1.6260		1.2847	19.011
4PI	3.4060	0.81129	3.5398	2.6157		0.74738
	3.7230	2.2563	9.7656		2.8994	1.9833
	2.5694					
JJ4FJF-5870	NIST-STRBASE					
	3.88	1.81	8.39	2.23	7.01	
	3.90	4.88	1.63		1.28	19.0
4PI	3.41	0.811	3.54	2.62		0.747
	3.72	2.26	9.77		2.90	1.98
	2.57					
JPA9EB-5870	FBI PopStats					
	3.8820	1.8051	8.3893	2.2287	7.0077	
	3.9032	4.8780	1.6260		1.2847	19.011
4PI	3.4060	0.81129	3.5398	2.6157		0.74738
	3.7230	2.2563	9.7656		2.8994	1.9833
	2.5694					
KC2T6L-5875	NIST-STRBASE					
	3.3E+00	1.7E+00	6.6E+00	2.1E+00	6.5E+00	
	3.8E+00	4.7E+00	1.6E+00	3.9E+00	1.3E+00	1.5E+01
4PI	3.4E+00	8.2E-01	3.3E+00	2.6E+00		7.6E-01
	3.2E+00	2.1E+00	8.6E+00	6.1E+00	2.8E+00	2.0E+00
	2.4E+00					

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

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KT4P4B-5875	FBI PopStats					
		3.3715	1.2742	16.077	2.5484	10.449
		3.2658	5.0968	2.0492	2.0695	1.7416
4PI		4.3554	1.0297	3.0960	2.6969	0.75999
		3.7994	2.5176	4.3554	5.0968	4.1391
		3.3704				
MBX6EL-5870	NIST-STRBASE					
			1.8051		2.2287	7.0077
		3.9032	4.8780			1.2847
4PI		3.4060	0.8113	3.5398		0.7474
		3.7230			2.8994	1.9833
		2.5694				
MWEJWD-5875	FBI PopStats					
		3.0600	1.6694	9.6154	2.2568	6.6225
		3.4530	4.5914	1.4854		1.2168
4PI		4.8077	0.79529	4.2974	3.1566	0.79847
		3.6075			7.2150	3.2841
		2.6233				1.9608
N6MFEP-5870	NIST-STRBASE					
		3.88	1.81	8.4	2.23	7.01
		3.9	4.88	1.63	4.01	1.28
4PI		3.41	0.811	3.54	2.62	0.747
		3.72	N/A	N/A	6.56	2.9
		N/A				1.98
NLWZCG-5875	NIST-STRBASE					
		3.27	1.69	7.46	2.13	6.39
		3.77	4.62	1.64	3.86	1.24
4PI		3.32	0.805	3.33	2.59	0.744
		3.16			6.03	2.85
		2.42				1.99
P9KE48-5870	FBI PopStats					
		3.06	1.66	9.61	2.25	6.62
		3.45	4.59	1.48	4.69	1.21
4PI		4.80	0.795	4.29	3.15	0.798
		3.60			7.21	3.28
		2.62				1.96
PAFW79-5870	NIST-STRBASE					
		3.88	1.81	8.39	2.23	7.01
		3.90	4.88	1.63		1.28
4PI		3.41	.811	3.54	2.62	.747
		3.72	2.26	9.77		2.90
		2.57				1.98

TABLE 2

WebCode-Test	Population Database(s)					
	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
Item	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					

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PKWQG6-5870 FBI PopStats

	3.8820	1.8051	8.3893	2.2287	7.0077	
	3.9032	4.8780	1.6260		1.2847	19.011
4PI	3.4060	0.81129	3.5398	2.6157		0.74738
	3.7230	2.2563	9.7656		2.8994	1.9833
	2.5694					

Q22BW6-5870 NIST-STRBASE

	3.88	1.81	8.39	2.23	7.01	
	3.90	4.88	1.63		1.28	19.0
4PI	3.41	0.811	3.54	2.62		0.747
	3.72	2.26	9.77		2.90	1.98
	2.57					

Q3CARE-5870 NIST-STRBASE

	3.8819	1.8050	8.3892	2.2286	7.0077	
	3.9032	4.8780	1.6260	4.0096	1.2846	19.0114
4PI	3.4059	0.8112	3.5398	2.6157		0.7473
	3.7230	2.2563	9.7656		2.8993	1.9833
	2.5693					

QB3VXC-5870 NIST-STRBASE

	3.8817	1.8050	8.3953	2.2284	7.0097	
	3.9027	4.8784	1.6261	-	1.2847	19.0000
4PI	3.4057	0.8112	3.5392	2.6159		0.7474
	3.7216			6.5636	2.8996	1.9835
	2.5694					

QGP67-5870 FBI PopStats

	3.0600	1.6694	9.6154	2.2568	6.6225	
	3.4530	4.5914	1.4854	4.6992	1.2168	15.528
4PI	4.8077	0.79529	4.2974	3.1566		0.79847
	3.6075			7.2150	3.2841	1.9608
	2.6233					

QQZPQ7-5870 [Ethnicity] Caucasian

	2.65	1.77		2.04	5.22	1.19
	3.46	4.76		3.92	1.15	11.27
4PI	3.38	0.814	3.44			0.795
	2.81	2.12	7.93		2.98	2.00
	2.34					

RH3FY8-5870 NIST-STRBASE

	2.7701	1.7775	12.788	2.0534	6.1312	
	3.3910	6.3532	1.8083	3.3003	1.2453	23.041
4PI	3.3738	0.90711	4.0388	3.3636		0.8088
	3.6470	2.2999	9.8619		4.8638	2.0458

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

V24UKH-5870	NIST-STRBASE	3.88	1.81	8.4	2.23	7.01	
		3.9	4.88	1.63	4.01	1.28	19
4PI		3.41	0.811	3.54	2.62		0.747
		3.72			6.56	2.9	1.98
	N/A						
VAETFE-5870	CAUCASIAN		1.9359		2.13428	7.10588	
		4.10884	4.95082			1.38532	25.1667
4PI		3.59524	0.803191	3.59524			0.755
		3.68293				2.72072	2.05442
		2.55932					
VWARH4-5870	NIST-STRBASE	3.8820	1.8051	8.3893	2.2287	7.0077	
		3.9032	4.8780	1.6260	4.0096	1.2847	19.011
4PI		3.4060	0.81129	3.5398	2.6157		0.74738
		3.723	2.2563	9.7656	6.5617	2.8994	1.9833
		2.5694					
WB7A82-5870	FBI PopStats	3.060	1.669	9.615	2.257	6.623	
		3.453	4.591	1.485	4.699	1.217	15.528
4PI		4.808	0.795	4.297	3.157		0.798
		3.608			7.215	3.284	1.961
		2.623					
WCGDEX-5870	Combined national caucasian database	3.4958	2.0402		2.2336	6.0035	1.2725
		3.6767	5.36		4.2524	1.2185	18.1382
4PI		3.5786	0.8287	3.9559			0.8082
		3.7935	2.3326	10.4626		3.102	2.0041
		2.6258					
WG9FM4-5870	NIST-STRBASE	3.8819	1.8050	8.3892	2.2286	7.0077	
		3.9032	4.8780	1.6260	4.0096	1.2846	19.0114
4PI		3.4059	0.8112	3.5398	2.6157		0.7473
		3.7230			6.5616	2.8993	1.9833
		2.5693					
X77HCA-5875	NIST-STRBASE	3.88	1.81	8.4	2.23	7.01	
		3.9	4.88	1.63	4.01	1.28	19
4PI		3.41	0.811	3.54	2.62		0.747
		3.72			6.56	2.9	1.98
		2.57					

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

XUTHH2-5875	FBI PopStats					
		3.0600	1.6694	9.6154	2.2568	6.6225
		3.4530	4.5914	1.4854		15.528
4PI		4.8077	0.79529	4.2974	3.1566	0.79847
		3.6075			7.2150	3.2841
		2.6233				1.9608
ZLXWP9-5875	FBI PopStats					
		3.8820	1.6706	8.3893	2.2568	6.8399
		3.4530	4.9020	1.6260	4.0096	15.4799
4PI		4.6685	0.8087	4.3085	2.6157	0.7985
		3.6284	2.3585	10.4167		3.2841
		2.6667				1.9608
ZYZM88-5870	NIST-STRBASE					
			1.8051		2.2287	7.0077
		3.9032	4.8780			19.0114
4PI		3.4060	0.8113	3.5398		0.7474
		3.7230				2.8994
		2.5694				1.9833

YSTR Amplification Kit(s) & Results

TABLE 3

WebCode-Test Item	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 2 - YSTR Results									
38NZJB-5875	PowerPlex® Y 23								
		14	11,14	13	29		11	13	13
2	14	12	11	19		17	17		22
		12	13	17	17		23	10	11
3QF9G7-5875	PowerPlex® Y 23								
		14	11,14	13	29		11	13	13
2	14	12	11	19		17	17		22
		12	13	17	17		23	10	11
3UEJC7-5870	PowerPlex® Y 23								
		15	15,15	14	32	23	10	12	15
2	14	10	11	20		14	15		27
		12	12	21	17		22	12	10
4LJ2B3-5870	Yfiler®								
		14	11,14	13	29	NR	11	13	13
2	14	12	11	19		17	17		
							23		11
4PHFYT-5870	Yfiler® Plus								
	35,38	14	11,14	13	29	-	11	13	13
2	14	12	11	19	29	17	17	11	22
	-	12		17	17	21	23		11
67M4NX-5875	Yfiler®								
		14	11,14	13	29		11	13	13
2	14	12	11	19		17	17		
							23		11
6XBMGX-5875	Yfiler®								
		14	11,14	13	29	no result	11	13	13
2	14	12	11	19		17	17		
							23		11
7KYYGZ-5870	PowerPlex® Y 23								
		14	11,14	13	29		11	13	13
2	14	12	11	19		17	17		22
		12	13	17	17		23	10	11
8WRKMV-5870	Yfiler®								
		14	11,14	13	29	ND	11	13	13
2	14	12	11	19		17	17		
							23		11

TABLE 3

WebCode-Test		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 2 - YSTR Results									
9C2VNM-5875	Yfiler® Plus								
	35,38	14	11,14	13	29		11	13	13
2	14	12	11	19	29	17	17	11	22
		12		17	17	21	23		11
9CGAVW-5875	PowerPlex® Y Y23								
		14	11,14	13	29		11	13	13
2	14	12	11	19		17	17		22
		12	13	17	17		23	10	11
A2ZQCZ-5875	PowerPlex® Y								
		14	11,14	13	29		11	13	13
2	14	12	11	19		17	17		22
		12	13	17	17		23	10	11
A797LN-5870	Yfiler®								
		14	11,14	13	29		11	13	13
2	14	12	11	19		17	17		
							23		11
AJHPGX-5870	PowerPlex® Y 23 System								
		14	11,14	13	29	-	11	13	13
2	14	12	11	19		17	17		22
		12	13	17	17		23	10	11
AL24KX-5870	Yfiler®								
	-	14	11,14	13	29	ND	11	13	13
2	14	12	11	19	-	17	17	-	-
	-	-	-	-	-	-	23	-	11
BBZX7Q-5870	Yfiler®								
		14	11,14	13	29	ND	11	13	13
2	14	12	11	19		17	17		
							23		11
E2WR3Y-5875	PowerPlex® Y 23								
		14,14	11,14	13,13	29,29		11,11	13,13	13,13
2	14,14	12,12	11,11	19,19		17,17	17,17		22,22
		12,12	13,13	17,17	17,17		23,23	10,10	11,11
EGU2NK-5870	Yfiler®								
		14	11,14	13	29		11	13	13
2	14	12	11	19		17	17		
							23		11
F7RZNK-5870	Yfiler®								
		14	11,14	13	29	ND	11	13	13
2	14	12	11	19		17	17		
							23		11

TABLE 3

WebCode-Test Item	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 2 - YSTR Results									
FAREAP-5870	Yfiler® Plus								
	35,38	14	11,14	13	29	--	11	13	13
2	14	12	11	19	29	17	17	11	22
	--	12		17	17	21	23		11
GPHE2P-5870	Yfiler®								
		14	11,14	13	29	NR	11	13	13
2	14	12	11	19		17	17		
							23		11
HKGWYE-5870	Yfiler® Plus								
	35,38	14	11,14	13	29	ND	11	13	13
2	14	12	11	19	29	17	17	11	22
	ND	12		17	17	21	23		11
KC2T6L-5875	Yfiler®								
		14	11,14	13	29		11	13	13
2	14	12	11	19		17	17		
							23		11
MBX6EL-5870	Yfiler®								
		14	11,14	13	29	ND	11	13	13
2	14	12	11	19		17	17		
							23		11
N6MFEP-5870	Yfiler® Plus, ForenSeq								
	35,38	14	11,14	13	29	NR	11	13	13
2	14	12	11	19	29	17	17	11	22
	NR	12	13	17	17	21	23	10	11
P9KE48-5870	Yfiler® Plus								
	35,38	14	11,14	13	29		11	13	13
2	14	12	11	19	29	17	17	11	22
		12		17	17	21	23		11
PAFW79-5870	Yfiler®								
		14	11,14	13	29		11	13	13
2	14	12	11	19		17	17		
							23		11
Q3CARE-5870	Yfiler®								
		14	11,14	13	29	NR	11	13	13
2	14	12	11	19		17	17		
							23		11
QGPN67-5870	Yfiler® Plus								
	35,38	14	11,14	13	29		11	13	13
2	14	12	11	19	29	17	17	11	22
		12		17	17	21	23		11

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
Item	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4

Item 2 - YSTR Results

V24UKH-5870	Yfiler®								
	35,38	14	11,14	13	29	NR	11	13	13
2	14	12	11	19	29	17	17	11	22
	NR	12		17	17	21	23		11
VAETFE-5870	PowerPlex® Y 23								
		14	11,14	13	29	F	11	13	13
2	14	12	11	19		17	17		22
		12	13	17	17		23	10	11
VWARH4-5870	Yfiler® Plus								
	35,38	14	11,14	13	29		11	13	13
2	14	12	11	19	29	17	17	11	22
		12		17	17	21	23		11
WB7A82-5870	Yfiler® Plus								
	35,38	14	11,14	13	29	-	11	13	13
2	14	12	11	19	29	17	17	11	22
	-	12		17	17	21	23		11
WG9FM4-5870	Yfiler®								
		14	11,14	13	29	ND	11	13	13
2	14	12	11	19		17	17		
							23		11
ZLXWP9-5875	PowerPlex® Y 23								
		14	11,14	13	29		11	13	13
2	14	12	11	19		17	17		22
		12	13	17	17		23	10	11
ZYZM88-5870	Yfiler®								
		14	11,14	13	29	ND	11	13	13
2	14	12	11	19		17	17		
							23		11

TABLE 3

WebCode-Test		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3 - YSTR Results									
38NZJB-5875	PowerPlex® Y 23								
		15	13,16	12	29	24	11	11	14
3	15	10	11	19		14	17		23
		10	11	18	17		24	13	11
3QF9G7-5875	PowerPlex® Y 23								
		15	13,16	12	29	24	11	11	14
3	15	10	11	19		14	17		23
		10	11	18	17		24	13	11
3UEJC7-5870	PowerPlex® Y 23								
		15	15,15	14	32	23	10	12	15
3	14	10	11	20		14	15		27
		12	12	21	17		22	12	10
4LJ2B3-5870	Yfiler®								
		15	13,16	12	29	24	11	11	14
3	15	10	11	19		14	17		
							24		11
4PHFYT-5870	Yfiler® Plus								
	36,37	15	13,16	12	29	24	11	11	14
3	15	10	11	19	28	14	17	10	23
	38	10		18	17	20	24		11
67M4NX-5875	Yfiler®								
		15	13,16	12	29	24	11	11	14
3	15	10	11	19		14	17		
							24		11
6XBMGX-5875	Yfiler®								
		15	13,16	12	29	24	11	11	14
3	15	10	11	19		14	17		
							24		11
7KYYGZ-5870	PowerPlex® Y 23								
		15	13,16	12	29	24	11	11	14
3	15	10	11	19		14	17		23
		10	11	18	17		24	13	11
8WRKMV-5870	Yfiler®								
		15	13,16	12	29	24	11	11	14
3	15	10	11	19		14	17		
							24		11
9C2VNM-5875	Yfiler® Plus								
	36,37	15	13,16	12	29	24	11	11	14
3	15	10	11	19	28	14	17	10	23
	38	10		18	17	20	24		11

TABLE 3

WebCode-Test		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3 - YSTR Results									
9CGAVW-5875	PowerPlex® Y Y23								
		15	13,16	12	29	24	11	11	14
3	15	10	11	19		14	17		23
		10	11	18	17		24	13	11
A2ZQCZ-5875	PowerPlex® Y								
		15	13,16	12	29	24	11	11	14
3	15	10	11	19		14	17		23
		10	11	18	17		24	13	11
A797LN-5870	Yfiler®								
		15	13,16	12	29	24	11	11	14
3	15	10	11	19		14	17		
							24		11
AJHPGX-5870	PowerPlex® Y 23 System								
		15	13,16	12	29	24	11	11	14
3	15	10	11	19		14	17		23
		10	11	18	17		24	13	11
AL24KX-5870	Yfiler®								
	-	15	13,16	12	29	24	11	11	14
3	15	10	11	19	-	14	17	-	-
	-	-	-	-	-	-	24	-	11
BBZX7Q-5870	Yfiler®								
		15	13,16	12	29	24	11	11	14
3	15	10	11	19		14	17		
							24		11
E2WR3Y-5875	PowerPlex® Y 23								
		15,15	13,16	12,12	29,29	24,24	11,11	11,11	14,14
3	15,15	10,10	11,11	19,19		14,14	17,17		23,23
		10,10	11,11	18,18	17,17		24,24	13,13	11,11
EGU2NK-5870	Yfiler®								
		15	13,16	12	29	24	11	11	14
3	15	10	11	19		14	17		
							24		11
F7RZNK-5870	Yfiler®								
		15	13,16	12	29	24	11	11	14
3	15	10	11	19		14	17		
							24		11
FAEAP-5870	Yfiler® Plus								
	36,37	15	13,16	12	29	24	11	11	14
3	15	10	11	19	28	14	17	10	23
	38	10		18	17	20	24		11

TABLE 3

WebCode-Test Item	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3 - YSTR Results									
GPHE2P-5870	Yfiler®								
	15	13,16	12	29	24	11	11	14	
3	15	10	11	19	14	17	24	11	
HKGWYE-5870	Yfiler® Plus								
	36,37	15	13,16	12	29	24	11	11	14
3	15	10	11	19	28	14	17	10	23
	38	10		18	17	20	24		11
KC2T6L-5875	Yfiler®								
	15	13,16	12	29	24	11	11	14	
3	15	10	11	19	14	17	24		11
MBX6EL-5870	Yfiler®								
	15	13,16	12	29	24	11	11	14	
3	15	10	11	19	14	17	24		11
N6MFEP-5870	Yfiler® Plus, ForenSeq								
	36,37	15	13,16	12	29	24	11	11	14
3	15	10	11	19	28	14	17	10	23
	38	10	11	18	17	20	24	13	11
P9KE48-5870	Yfiler® Plus								
	36,37	15	13,16	12	29	24	11	11	14
3	15	10	11	19	28	14	17	10	23
	38	10		18	17	20	24		11
PAFW79-5870	Yfiler®								
	15	13,16	12	29	24	11	11	14	
3	15	10	11	19	14	17	24		11
Q3CARE-5870	Yfiler®								
	15	13,16	12	29	24	11	11	14	
3	15	10	11	19	14	17	24		11
QGPN67-5870	Yfiler® Plus								
	36,37	15	13,16	12	29	24	11	11	14
3	15	10	11	19	28	14	17	10	23
	38	10		18	17	20	24		11
V24UKH-5870	Yfiler®								
	36,37	15	13,16	12	29	24	11	11	14
3	15	10	11	19	28	14	17	10	23
	38	10		18	17	20	24		11

TABLE 3

WebCode-Test Item	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 3 - YSTR Results									
VAETFE-5870	PowerPlex® Y Y23								
		15	13,16	12	29	24	11	11	14
3	15	10	11	19		14	17		23
		10	11	18	17		24	13	11
VWARH4-5870	Yfiler® Plus								
	36,37	15	13,16	12	29	24	11	11	14
3	15	10	11	19	28	14	17	10	23
	38	10		18	17	20	24		11
WB7A82-5870	Yfiler® Plus								
	36,37	15	13,16	12	29	24	11	11	14
3	15	10	11	19	28	14	17	10	23
	38	10		18	17	20	24		11
WG9FM4-5870	Yfiler®								
		15	13,16	12	29	24	11	11	14
3	15	10	11	19		14	17		
							24		11
ZLXWP9-5875	PowerPlex® Y 23								
		15	13,16	12	29	24	11	11	14
3	15	10	11	19		14	17		23
		10	11	18	17		24	13	11
ZYZM88-5870	Yfiler®								
		15	13,16	12	29	24	11	11	14
3	15	10	11	19		14	17		
							24		11

TABLE 3

WebCode-Test Item	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4 - YSTR Results									
38NZJB-5875	PowerPlex® Y 23								
		14	11,14	13	29		11	13	13
4	14	12	11	19		17	17		22
		12	13	17	17		23	10	11
3UEJC7-5870	PowerPlex® Y 23								
		15	15,15	14	32	23	10	12	15
4	14	10	11	20		14	15		27
		12	12	21	17		22	12	10
4LJ2B3-5870	Yfiler®								
		14	11,14	13	29	NR	11	13	13
4	14	12	11	19		17	17		
							23		11
4PHFYT-5870	Yfiler® Plus								
	35,38	14	11,14	13	29	-	11	13	13
4	14	12	11	19	29	17	17	11	22
	-	12		17	17	21	23		11
67M4NX-5875	Yfiler®								
		14	11,14	13	29		11	13	13
4	14	12	11	19		17	17		
							23		11
6XBMGX-5875	Yfiler®								
		14	11,14	13	29	no result	11	13	13
4	14	12	11	19		17	17		
							23		11
7KYYGZ-5870	PowerPlex® Y 23								
		14	11,14	13	29		11	13	13
4	14	12	11	19		17	17		22
		12	13	17	17		23	10	11
8WRKMV-5870	Yfiler®								
		14	11,14	13	29	ND	11	13	13
4	14	12	11	19		17	17		
							23		11
9C2VNM-5875	Yfiler® Plus								
	35,38	14	11,14	13	29		11	13	13
4	14	12	11	19	29	17	17	11	22
		12		17	17	21	23		11
9CGAVW-5875	PowerPlex® Y Y23								
		14	11,14	13	29		11	13	13
4	14	12	11	19		17	17		22
		12	13	17	17		23	10	11

TABLE 3

WebCode-Test Item	Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4 - YSTR Results									
A2ZQCZ-5875	PowerPlex® Y								
		14	11,14	13	29		11	13	13
4	14	12	11	19		17	17		22
		12	13	17	17		23	10	11
A797LN-5870	Yfiler®								
		14	11,14	13	29		11	13	13
4	14	12	11	19		17	17		
							23		11
AJHPGX-5870	PowerPlex® Y 23 System								
		14	11,14	13	29	-	11	13	13
4	14	12	11	19		17	17		22
		12	13	17	17		23	10	11
AL24KX-5870	Yfiler®								
	-	14	11,14	13	29	ND	11	13	13
4	14	12	11	19	-	17	17	-	-
	-	-	-	-	-	-	23	-	11
BBZX7Q-5870	Yfiler®								
		14	11,14	13	29	ND	11	13	13
4	14	12	11	19		17	17		
							23		11
E2WR3Y-5875	PowerPlex® Y 23								
		14,14	11,14	13,13	29,29		11,11	13,13	13,13
4	14,14	12,12	11,11	19,19		17,17	17,17		22,22
		12,12	13,13	17,17	17,17		23,23	10,10	11,11
EGU2NK-5870	Yfiler®								
		14	11,14	13	29		11	13	13
4	14	12	11	19		17	17		
							23		11
F7RZNK-5870	Yfiler®								
		14	11,14	13	29	ND	11	13	13
4	14	12	11	19		17	17		
							23		11
FAEAP-5870	Yfiler® Plus								
	35,38	14	11,14	13	29	--	11	13	13
4	14	12	11	19	29	17	17	11	22
	--	12		17	17	21	23		11
GPHE2P-5870	Yfiler®								
		14	11,14	13	29	NR	11	13	13
4	14	12	11	19		17	17		
							23		11

TABLE 3

WebCode-Test		Amplification Kit							
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
Item 4 - YSTR Results									
HKGWYE-5870		Yfiler® Plus							
	35,38	14	11,14	13	29	ND	11	13	13
4	14	12	11	19	29	17	17	11	22
	ND	12		17	17	21	23		11
KC2T6L-5875		Yfiler®							
		14	11,14	13	29		11	13	13
4	14	12	11	19		17	17		
							23		11
MBX6EL-5870		Yfiler®							
		14	11,14	13	29	ND	11	13	13
4	14	12	11	19		17	17		
							23		11
N6MFEP-5870		Yfiler® Plus, ForenSeq							
	35,38	14	11,14	13	29	NR	11	13	13
4	14	12	11	19	29	17	17	11	22
	NR	12	13	17	17	21	23	10	11
P9KE48-5870		Yfiler® Plus							
	35,38	14	11,14	13	29		11	13	13
4	14	12	11	19	29	17	17	11	22
		12		17	17	21	23		11
PAFW79-5870		Yfiler®							
		14	11,14	13	29		11	13	13
4	14	12	11	19		17	17		
							23		11
Q3CARE-5870		Yfiler®							
		14	11,14	13	29	NR	11	13	13
4	14	12	11	19		17	17		
							23		11
QGPN67-5870		Yfiler® Plus							
	35,38	14	11,14	13	29		11	13	13
4	14	12	11	19	29	17	17	11	22
		12		17	17	21	23		11
V24UKH-5870		Yfiler®							
	35,38	14	11,14	13	29	NR	11	13	13
4	14	12	11	19	29	17	17	11	22
	NR	12		17	17	21	23		11
VAETFE-5870		PowerPlex® Y 23							
		14	11,14	13	29	F	11	13	13
4	14	12	11	19		17	17		22
		12	13	17	17		23	10	11

TABLE 3

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

Item 4 - YSTR Results

VWARH4-5870	Yfiler® Plus								
	35,38	14	11,14	13	29		11	13	13
4	14	12	11	19	29	17	17	11	22
		12		17	17	21	23		11
WB7A82-5870	Yfiler® Plus								
	35,38	14	11,14	13	29	-	11	13	13
4	14	12	11	19	29	17	17	11	22
	-	12		17	17	21	23		11
WG9FM4-5870	Yfiler®								
		14	11,14	13	29	ND	11	13	13
4	14	12	11	19		17	17		
							23		11
ZLXWP9-5875	PowerPlex® Y 23								
		14	11,14	13	29		11	13	13
4	14	12	11	19		17	17		22
		12	13	17	17		23	10	11
ZYZM88-5870	Yfiler®								
		14	11,14	13	29	ND	11	13	13
4	14	12	11	19		17	17		
							23		11

Additional DNA & PI Results

TABLE 4

Locus	WebCode-Test	Item 1	Item 2	Item 3	Item 3 PI	Item 4	Item 4 PI
F13A01	9CGAVW-5875	6,7	6	3,2,7	0	6	2.8539
F13B	9CGAVW-5875	8,10	8,9	10	0	9,10	2.0284
FESFPS	9CGAVW-5875	11	11	11	2.4307	10,11	1.2154
LPL	9CGAVW-5875	12	11,12	10,12	0	11,13	1.9099
PENTA C	9CGAVW-5875	10,12	12,13	11	0	11,13	3.5039

Paternity DNA Statistics & Conclusions

TABLE 5

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
2PPKL7-5875	Item 4 - Alleged Father B	660 billion	99.99%	Laboratory Specific Database
38NZJB-5875	Item 4 - Alleged Father B	1.85E+12	0.99999	NIST-STRBASE
3QF9G7-5875	Item 4 - Alleged Father B	19,216,873,100.2332	>99.9999%	NIST-STRBASE
3UEJC7-5870	Item 4 - Alleged Father B	64,514,134,534.6955	99.9999999984	NIST-STRBASE
3ZPFEV-5870	Item 4 - Alleged Father B	2.3 billion	99.99999996%	NIST-STRBASE
4LJ2B3-5870	Item 4 - Alleged Father B	64.5 billion	99.9%	NIST-STRBASE
4PHFYT-5870	Item 4 - Alleged Father B	27,950,000,000	99.999999996422	FBI PopStats
67M4NX-5875	Item 4 - Alleged Father B	92,370,000,000	99.999999998917%	FBI PopStats
6XBMGX-5875	Item 4 - Alleged Father B	1.3 billion	N/A	NIST-STRBASE
7KYYGZ-5870	Item 4 - Alleged Father B	1.9E+10		NIST-STRBASE
89L29P-5870	Item 4 - Alleged Father B	2.348E+009	N/A	NIST-STRBASE
8HCKTP-5870	Item 4 - Alleged Father B	16,090,000,000	99.999999993785	FBI PopStats
8HPE9P-5870	Item 4 - Alleged Father B	5,948,000,000	99.99999998319%	FBI PopStats
8MJBVV-5870	Item 4 - Alleged Father B	51.9 billion	99.9999%	NIST-STRBASE
8W6EYN-5870	Item 4 - Alleged Father B	27,165,805,240	100%; reported as greater [Ethnicity] Pop. than 99.99%	Database
8W82HN-5870	Item 4 - Alleged Father B	16,090,000,000	99.999999993785	FBI PopStats
8WRKMV-5870	Item 4 - Alleged Father B	1.9212E+10	99.9999%	NIST-STRBASE
8Z7HTW-5875	Item 4 - Alleged Father B	1,300,000,000	N/A	NIST-STRBASE
9C2VNM-5875	Item 4 - Alleged Father B	1.8 billion		Local Caucasian Database
9CGAVW-5875	Item 4 - Alleged Father B	110,552,694,236.9000	99.9999%	Promega

TABLE 5 - Paternity DNA Statistics & Conclusions

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
A2ZQCZ-5875	Item 4 - Alleged Father B	1 billion	99.999	NIST-STRBASE
A797LN-5870	Item 4 - Alleged Father B	16 billion	99.9999%	NIST-STRBASE
AJHPGX-5870	Item 4 - Alleged Father B	423,124,023,673.82	99.9999999997637	NIST-STRBASE
AL24KX-5870	Item 4 - Alleged Father B	1.9212E+10	99.9999%	NIST-STRBASE
BBZX7Q-5870	Item 4 - Alleged Father B	1.9212E+10	99.9999%	NIST-STRBASE
BP2A2P-5875	Item 4 - Alleged Father B	4,791,000,000	99.9999%	NIST-STRBASE
CAH7VK-5870	Item 4 - Alleged Father B	666,400,000,000	99.999999998499	FBI PopStats
CPVEVN-5875	Item 4 - Alleged Father B	5,948,000,000	99.9999998319	FBI PopStats
CWV7U-5875	Item 4 - Alleged Father B	73700000000	99.9999999	FBI PopStats, Promega/NIST
D934LR-5875	Item 4 - Alleged Father B	1.3 billion	N/A	NIST-STRBASE
E2WR3Y-5875	Item 4 - Alleged Father B	1003503998	99.999999901 %	Laboratory specific database
EGU2NK-5870	Item 4 - Alleged Father B	16 billion	99.9999%	NIST-STRBASE
F7RZNK-5870	Item 4 - Alleged Father B	1.9212E+10	99.9999%	NIST-STRBASE
FAREAP-5870	Item 4 - Alleged Father B	19,210,000,000	99.99999994794	FBI PopStats
G2RCKJ-5875	Item 4 - Alleged Father B	5,948,000,000	99.9999998319	FBI PopStats
GPHE2P-5870	Item 4 - Alleged Father B	64.5 billion	99.9%	NIST-STRBASE
HA2ZXH-5875	Item 4 - Alleged Father B	4,791,000,000	99.9999	NIST-STRBASE
HKGWYE-5870	Item 4 - Alleged Father B	2.3 billion		NIST-STRBASE
HQ78DJ-5870	Item 4 - Alleged Father B	140,000,000	99.99%	FBI PopStats, Laboratory Specific Database
HXKBZC-5870	Item 4 - Alleged Father B	16,090,000,000	99.99999993785	FBI PopStats

TABLE 5 - Paternity DNA Statistics & Conclusions

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
JJ4FJF-5870	Item 4 - Alleged Father B	16 billion	99.9999%	NIST-STRBASE
JPA9EB-5870	Item 4 - Alleged Father B	16,090,000,000	99.999999993785%	FBI PopStats
KC2T6L-5875	Item 4 - Alleged Father B	9.8E+10	99.9999%	NIST-STRBASE
KT4P4B-5875	Item 4 - Alleged Father B	216 billion		FBI PopStats
MBX6EL-5870	Item 4 - Alleged Father B	5.2718E+06	99.9999%	NIST-STRBASE
MWEJWD-5875	Item 4 - Alleged Father B	5,948,000,000	99.99999998319	FBI PopStats
N6MFEP-5870	Item 4 - Alleged Father B	7.48E+9	N/A	NIST-STRBASE
NLWZCG-5875	Item 4 - Alleged Father B	1.3 billion	n/a	NIST-STRBASE
P9KE48-5870	Item 4 - Alleged Father B	27,950,000,000	99.99999996422%	FBI PopStats
PAFW79-5870	Item 4 - Alleged Father B	16 billion	99.9999%	NIST-STRBASE
PKWQG6-5870	Item 4 - Alleged Father B	16,090,000,000	99.999999993785	FBI PopStats
Q22BW6-5870	Item 4 - Alleged Father B	16 billion	99.9999%	NIST-STRBASE
Q3CARE-5870	Item 4 - Alleged Father B	6.45E+10	99.9	NIST-STRBASE
QB3VXC-5870	Item 4 - Alleged Father B	4,791,928,114	99.9999%	NIST-STRBASE
QGPN67-5870	Item 4 - Alleged Father B	27950000000	99.99999996422	FBI PopStats
QQZPQ7-5870	Item 4 - Alleged Father B	2.45E+08	N/A	[Ethnicity] Caucasian
RH3FY8-5870	Item 4 - Alleged Father B	80,940,000,000		NIST-STRBASE
V24UKH-5870	Item 4 - Alleged Father B	7.48E+09	N/A	NIST-STRBASE
VAETFE-5870	Item 4 - Alleged Father B			CAUCASIAN
VWARH4-5870	Item 4 - Alleged Father B	423 Billion	99.99%	NIST-STRBASE
WB7A82-5870	Item 4 - Alleged Father B	27,950,000,000	99.99999996422	FBI PopStats

TABLE 5 - Paternity DNA Statistics & Conclusions

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
WCGDEX-5870	Item 4 - Alleged Father B	approximately 3.2 billion	99.9999%	Combined national caucasian database
WG9FM4-5870	Item 4 - Alleged Father B	1.9212E+10	99.9999%	NIST-STRBASE
X77HCA-5875	Item 4 - Alleged Father B	>19 billion	>99.99999999%	NIST-STRBASE
XUTHH2-5875	Item 4 - Alleged Father B	5,948,000,000	99.99999998319	FBI PopStats
ZLXWP9-5875	Item 4 - Alleged Father B	91,971,877,279.5262	99.9999%	FBI PopStats
ZYZM88-5870	Item 4 - Alleged Father B	5.2718E+06	99.9999%	NIST-STRBASE

Response Summary		Participants: 67
<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	67
	Inconclusive	0
	No Response	0

Kinship Likelihood Ratio Results

TABLE 6

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D1S1656	3QF9G7-5875	$(1+p+q+2pq)/8pq$	p=14 q=15	4.6043
	4PHFYT-5870	$(0.25+0.25a+0.25b+0.5ab)/2ab$	A=14 B=15	4.6042
	6XBMGX-5875	*	*	4.43
	7KYGGZ-5870	$1+p+q+2pq/8pq$	p=14, q=15	4.60
	8MJBVV-5870	$(1+p+q+2pq)/8pq$	p = 14 q = 15	4.604
	8WRKMY-5870	$(1+p+q+2pq)/8pq$	p = 14 q = 15	4.6041
	8Z7HTW-5875	N/A	N/A	4.429
	9CGAVW-5875	$(1+p+q+2pq)/8pq$	p=14 q=15	4.6042
	A2ZQCZ-5875			4.604
	A797LN-5870	$(1+p+q+2pq)/8pq$	p=14 q=15	4.604
	AJHPGX-5870	$(1+p+q+2pq)/8pq$	P=14 Q=15	4.6042
	AL24KX-5870	$(1+p+q+2pq)/8pq$	p=14 q=15	4.6042
	BBZX7Q-5870	$(1+p+q+2pq)/8pq$	p=14 q=15	4.6041
	CWVV7U-5875	$(1+p+q+2pq)/8pq$	p=14 q=15	4.6042
	D934LR-5875	N/A	N/A	4.429
	EGU2NK-5870	$(1+p+q+2pq)/8pq$	p = 14 q = 15	4.604
	F7RZNK-5870	$(1+p+q+2pq)/8pq$	p=14 q=15	4.6041
	FAREAP-5870	$((1*0.25)+(((a+b)/2)*0.5)+((2ab)*0.25))/2ab$	a=14 b=15	4.604175369
	HKGWYE-5870	$2Z2+Z1(pa+pb)/4papb+Z0$	a = 14 b = 15	4.604
	JJ4FJF-5870	$(1+p+q+2pq)/8pq$	p=14 q=15	4.604
	KC2T6L-5875	$1+p+q+2pq/8pq$	p = 14 q = 15	4.6
	MBX6EL-5870	$(1+p+q+2pq)/8pq$	p=14 q=15	4.6042
	NLWZCG-5875	*	*	4.429

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D1S1656	P9KE48-5870	$(0.25+0.25a+0.25b+0.5ab)/2ab$	a=14 b=15	4.604
	PAFW79-5870	$(1+a+b+2ab)/8ab$	a = 14 b = 15	4.604
	Q22BW6-5870	$(1+q+p+2pq)/8pq$	p=14 q=15	4.604
	QB3VXC-5870	$(1+p+q+2pq)/8pq$	p = 14 q = 15	4.6042
	QQZPQ7-5870	$(1+p+q+2pq)/(8pq)$	p = 14 q = 15	4.604
	WB7A82-5870	$(0.25+0.25a+0.25b+0.5ab)/2ab$	a=14 b=15	4.60417
	WCGDEX-5870	$(1+p+q+2pq)/8pq$	p=14 q=15	4.6042
	WG9FM4-5870	$(1+p+q+2pq)/8pq$	p=14 q=15	4.6041
	X77HCA-5875	$(1+p+q+2pq)/8pq$	p=14 q=15	4.604
	ZLXWP9-5875	$(1+p+q+2pq)/8pq$	p=14 q=15	4.6042
	ZYZM88-5870	$(1+p+q+2pq)/8pq$	p = 14 q = 15	4.6042

Statistical Analysis Summary of D1S1656
Likelihood Ratio Mode: 4.604

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D2S1338	3QF9G7-5875	$(1+2p)/8p$	p=16	2.4998
	4PHFYT-5870	$(0.25b+0.5ab)/2ab$	A=16 B=17	2.4982
	6XBMGX-5875	*	*	2.21
	7KYYGZ-5870	$1+2p/8p$	p=16	2.50
	8MJBWV-5870	$(1+2p)/8p$	p = 16 q = 17 r = 22	2.498
	8WRKMV-5870	$(1+2p)/8p$	p=16	2.4982
	8Z7HTW-5875	N/A	N/A	2.211
	9CGAVW-5875	$(1+2p)/8p$	p=16	2.4982
	A2ZQCZ-5875			2.500
	A797LN-5870	$(1+2p)/8p$	p=16	2.498
	AJHPGX-5870	$(1+2p)/8p$	P=16	2.4982
	AL24KX-5870	$(1+2p)/8p$	p=16	2.4982
	BBZX7Q-5870	$(1+2p)/8p$	p=16	2.4982
	CWV7U-5875	$(1+2p)/8p$	p=16	2.4982
	D934LR-5875	N/A	N/A	2.211
	EGU2NK-5870	$(1+2p)/8p$	p = 16	2.498
	F7RZNK-5870	$(1+2p)/8p$	p=16	2.4982
	FAREAP-5870	$((0*0.25)+((c/2*0.5)+((2ac)*0.25))/2ac$	a=16 b=17 c=22	2.498201439
	HKGWYE-5870	$Z1/4pa+Z0$	a = 16	2.498
	JJ4FJF-5870	$(1+2p)/8p$	p=16	2.498
	KC2T6L-5875	$1+2p/8p$	p=16	2.5
	MBX6EL-5870	$(1+2p)/8p$	p=16	2.4982
	NLWZCG-5875	*	*	2.211
	P9KE48-5870	$(0.25b+0.5ab)/2ab$	a=16 b=17	2.498

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D2S1338	PAFW79-5870	$(1+2a)/8a$	a = 16	2.498
	Q22BW6-5870	$(1+2p)/8p$	p=16	2.498
	QB3VXC-5870	$(1+2p)/8p$	p = 16	2.4982
	QQZPQ7-5870	$(1+2p)/(8p)$	p = 16	2.498
	WB7A82-5870	$(0.25b+0.5ab)/2ab$	a=16 b=17 c=22	2.49820
	WCGDEX-5870	$(1+2p)/8p$	p=16	2.4982
	WG9FM4-5870	$(1+2p)/8p$	p=16	2.4982
	X77HCA-5875	$(1+2p)/8p$	p=16	2.497
	ZLXWP9-5875	$(1+2p)/8p$	p=16	2.4982
	ZYZM88-5870	$(1+2p)/8p$	p = 16	2.4982

Statistical Analysis Summary of D2S1338
Likelihood Ratio Mode: 2.4982

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D2S441	3QF9G7-5875	$(1+2p)/8p$	$p=12$	1.0067
	4PHFYT-5870	$(0.25b+0.5ab)/2ab$	A=12 B=14	1.0067
	6XBMGX-5875	*	*	0.99
	7KYYGZ-5870	$1+2p/8p$	$p=12$	1.01
	8MJBWV-5870	$(1+2q)/8q$	$p = 11 \quad q = 12 \quad r = 14$	1.007
	8WRKMV-5870	$(1+2q)/8q$	$q=12$	1.0066
	8Z7HTW-5875	N/A	N/A	0.9851
	9CGAVW-5875	$(1+2p)/8p$	$p=12$	1.0067
	A2ZQCZ-5875			1.006
	A797LN-5870	$(1+2p)/8p$	$p=12$	1.007
	AJHPGX-5870	$(1+2p)/8p$	$P=12$	1.0067
	AL24KX-5870	$(1+2p)/8p$	$p=12$	1.0067
	BBZX7Q-5870	$(1+2p)/8p$	$p=12$	1.0066
	CWV7U-5875	$(1+2q)/8q$	$q=12$	1.0067
	D934LR-5875	N/A	N/A	0.9851
	EGU2NK-5870	$(1+2p)/8p$	$p = 12$	1.007
	F7RZNK-5870	$(1+2p)/8p$	$p=12$	1.0066
	FAREAP-5870	$((0*0.25)+((c/2*0.5)+((2ac)*0.25))/2ac$	$a=12 \quad b=14 \quad c=11$	1.006658596
	HKGWYE-5870	$Z1/4pa+Z0$	$a = 12$	1.007
	JJ4FJF-5870	$(1+2p)/8p$	$p=12$	1.007
	KC2T6L-5875	$1+2p/8p$	$p=12$	1.0
	MBX6EL-5870	$(1+2q)/8q$	$q=12$	1.0067
	NLWZCG-5875	*	*	0.9851
P9KE48-5870	$(0.25b+0.5ab)/2ab$	$a=12 \quad b=14$	1.006	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D2S441	PAFW79-5870	$(1+2a)/8a$	a = 12	1.007
	Q22BW6-5870	$(1+2q)/8q$	q=12	1.007
	QB3VXC-5870	$(1+2p)/8p$	p = 12	1.0067
	QQZPQ7-5870	$(1+2p)/(8p)$	p = 12	1.007
	WB7A82-5870	$(0.25b+0.5ab)/2ab$	a=12 b=14 c=11	1.00665
	WCGDEX-5870	$(1+2p)/8p$	p=12	1.0067
	WG9FM4-5870	$(1+2p)/8p$	p=12	1.0066
	X77HCA-5875	$(1+2q)/8q$	q=12	1.007
	ZLXWP9-5875	$(1+2p)/8p$	p=12	1.0067
	ZYZM88-5870	$(1+2p)/8p$	p = 12	1.0067

Statistical Analysis Summary of D2S441
Likelihood Ratio Mode: 1.0067

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D3S1358	3QF9G7-5875	$(1+2p+pp)/4pp$	$p=16$	4.2800
	4PHFYT-5870	$(0.25+0.5a+0.25a^2)/a^2$	$A=16$	4.2802
	6XBMGX-5875	*	*	3.95
	7KYGGZ-5870	$(1+P)^2/4P^2$	$p=16$	4.28
	8MJBWV-5870	$(8p^2+4(2+4p))/32p^2$	$p=16$	4.280
	8WRKMV-5870	$(1+2p+pp)/4pp$	$p=16$	4.2802
	8Z7HTW-5875	N/A	N/A	3.953
	9CGAVW-5875	$(1+2p+pp)/4pp$	$p=16$	4.2802
	A2ZQCZ-5875			4.280
	A797LN-5870	$[(1+p)^2]/4p^2$	$p=16$	4.280
	AJHPGX-5870	$(1+2p+pp)/4pp$	$P=16$	4.2802
	AL24KX-5870	$(1+2p+pp)/4pp$	$p=16$	4.2802
	BBZX7Q-5870	$(1+2p+pp)/4pp$	$p=16$	4.2802
	CWV7U-5875	$(1+2p+pp)/4pp$	$p=16$	4.2802
	D934LR-5875	N/A	N/A	3.953
	EGU2NK-5870	$(1+p)^2/4p^2$	$p=16$	4.280
	F7RZNK-5870	$(1+2p+pp)/4pp$	$p=16$	4.2802
	FAREAP-5870	$((1*0.25)+(a*0.5)+((a*a)*0.25))/a*a$	$a=16$	4.280237761
	HKGWYE-5870	$Z^2/pa^2+Z1/pa+Z0$	$a=16$	4.280
	JJ4FJF-5870	$(1+p)^2/4p^2$	$p=16$	4.280
	KC2T6L-5875	$(1+p)^2/(2p)^2$	$p=16$	4.3
	MBX6EL-5870	$(1+2p+pp)/4pp$	$p=16$	4.2802
	NLWZCG-5875	*	*	3.953
P9KE48-5870	$(0.25+0.5a+0.25a^2)/a^2$	$a=16$	4.280	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D3S1358	PAFW79-5870	$(1+a)^2/4a^2$	$a = 16$	4.280
	Q22BW6-5870	$(1+p)(1+p)/4(p)(p)$	$p = 16$	4.280
	QB3VXC-5870	$(1+p)^2/4p^2$	$p = 16$	4.2802
	QQZPQ7-5870	$(1+p)^2/(4p^2)$	$p = 16$	4.280
	WB7A82-5870	$(0.25+0.5a+0.25a^2)/a^2$	$a = 16$	4.28023
	WCGDEX-5870	$(1+p)^2/4p^2$	$p = 16$	4.2802
	WG9FM4-5870	$(1+2p+pp)/4pp$	$p = 16$	4.2802
	X77HCA-5875	$[(1+p)(1+p)]/[(2p)(2p)]$	$p = 16$	4.280
	ZLXWP9-5875	$(1+2p+pp)/4pp$	$p = 16$	4.2802
	ZYZM88-5870	$(1+2p+pp)/4pp$	$p = 16$	4.2802

Statistical Analysis Summary of D3S1358
Likelihood Ratio Mode: 4.2802

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D5S818	3QF9G7-5875	$(1+2p+pp)/4pp$	$p=11$	6.9563
	4PHFYT-5870	$(0.25+0.5a+0.25a^2)/a^2$	$A=11$	6.9573
	6XBMGX-5875	*	*	6.12
	7KYGGZ-5870	$(1+P)^2/4P^2$	$p=11$	6.96
	8MJBWV-5870	$(8p^2+4(2+4p))/32p^2$	$p=11$	6.957
	8WRKMV-5870	$(1+2p+pp)/4pp$	$p=11$	6.9572
	8Z7HTW-5875	N/A	N/A	6.120
	9CGAVW-5875	$(1+2p+pp)/4pp$	$p=11$	6.9573
	A2ZQCZ-5875			6.956
	A797LN-5870	$[(1+p)^2]/4p^2$	$p=11$	6.957
	AJHPGX-5870	$(1+2p+pp)/4pp$	$P=11$	6.9573
	AL24KX-5870	$(1+2p+pp)/4pp$	$p=11$	6.9572
	BBZX7Q-5870	$(1+2p+pp)/4pp$	$p=11$	6.9572
	CWV7U-5875	$(1+2p+pp)/4pp$	$p=11$	6.9573
	D934LR-5875	N/A	N/A	6.120
	EGU2NK-5870	$(1+p)^2/4p^2$	$p=11$	6.957
	F7RZNK-5870	$(1+2p+pp)/4pp$	$p=11$	6.9572
	FAEAP-5870	$((1*0.25)+(a*0.5)+((a*a)*0.25))/a*a$	$a=11$	6.957280182
	HKGWYE-5870	$Z^2/pa^2+Z1/pa+Z0$	$a=11$	6.957
	JJ4FJF-5870	$(1+p)^2/4p^2$	$p=11$	6.957
	KC2T6L-5875	$(1+p)^2/(2p)^2$	$p=11$	7.0
	MBX6EL-5870	$(1+2p+pp)/4pp$	$p=11$	6.9573
	NLWZCG-5875	*	*	6.120
	P9KE48-5870	$(0.25+0.5a+0.25a^2)/a^2$	$a=11$	6.957

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D5S818	PAFW79-5870	$(1+a)^2/4a^2$	$a = 11$	6.957
	Q22BW6-5870	$(1+p)(1+p)/4(p)(p)$	$p=11$	6.957
	QB3VXC-5870	$(1+p)^2/4p^2$	$p = 11$	6.9573
	QQZPQ7-5870	$(1+p)^2/(4p^2)$	$p = 11$	6.957
	WB7A82-5870	$(0.25+0.5a+0.25a^2)/a^2$	$a=11$	6.95728
	WCGDEX-5870	$(1+p)^2/4p^2$	$p=11$	6.9573
	WG9FM4-5870	$(1+2p+pp)/4pp$	$p=11$	6.9572
	X77HCA-5875	$[(1+p)(1+p)]/[(2p)(2p)]$	$p=11$	
	ZLXWP9-5875	$(1+2p+pp)/4pp$	$p=11$	6.9573
	ZYZM88-5870	$(1+2p+pp)/4pp$	$p = 11$	6.9573

Statistical Analysis Summary of D5S818
Likelihood Ratio Mode: 6.957

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D7S820	3QF9G7-5875	$(1+p)/4p$	$p=10$	0.9935
	4PHFYT-5870	$(0.25a+0.25a^2)/a^2$	$A=10$	0.99338
	6XBMGX-5875	*	*	0.97
	7KYYGZ-5870	$1+p/4p$	$p=10$	0.99
	8MJBWV-5870	$(1+p)/4p$	$p = 10 \quad q = 11$	0.9934
	8WRKMV-5870	$(1+p)/4p$	$p=10$	0.9933
	8Z7HTW-5875	N/A	N/A	0.9733
	9CGAVW-5875	$(1+p)/4p$	$p=10$	0.9934
	A2ZQCZ-5875			0.9935
	A797LN-5870	$(1+p)/4p$	$p=10$	0.9934
	AJHPGX-5870	$(1+p)/4p$	$P=10$	0.9934
	AL24KX-5870	$(1+p)/4p$	$p=10$	0.9933
	BBZX7Q-5870	$(1+p)/4p$	$p=10$	0.9933
	CWV7U-5875	$(1+p)/4p$	$p=10$	0.9934
	D934LR-5875	N/A	N/A	0.9733
	EGU2NK-5870	$(1+p)/4p$	$p=10$	0.9934
	F7RZNK-5870	$(1+p)/4p$	$p=10$	0.9933
	FAREAP-5870	$((0*0.25)+(b*0.5)+((2ab)*0.25))/2ab$	$a=10 \quad b=11$	0.993383883
	HKGWYE-5870	$Z1/2pa+Z0$	$a = 10$	0.993
	JJ4FJF-5870	$(1+p)/4p$	$p=10$	0.9934
	KC2T6L-5875	$1+p/4p$	$p=10$	1
	MBX6EL-5870	$(1+p)/4p$	$p=10$	0.9934
	NLWZCG-5875	*	*	0.9733
P9KE48-5870	$(0.25a+0.25a^2)/a^2$	$a=10$	0.9933	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D7S820	PAFW79-5870	$(1+a)/4a$	$a = 10$.9934
	Q22BW6-5870	$(1+p)/4p$	$p=10$	0.9934
	QB3VXC-5870	$(1+p)/4p$	$p = 10$	0.9934
	QQZPQ7-5870	$(1+p)/(4p)$	$p = 10$	0.9934
	WB7A82-5870	$(0.25a+0.25a^2)/a^2$	$a=10 \ b=11$	0.99338
	WCGDEX-5870	$(1+p)/4p$	$p = 10$	0.9934
	WG9FM4-5870	$(1+p)/4p$	$p=10$	0.9933
	X77HCA-5875	$(1+p)/4p$	$p=10$	0.9934
	ZLXWP9-5875	$(1+p)/4p$	$p=10$	0.9934
	ZYZM88-5870	$(1+p)/4p$	$p = 10$	0.9934

Statistical Analysis Summary of D7S820
Likelihood Ratio Mode: 0.9934

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D8S1179	3QF9G7-5875	$(1+p+q+2pq)/8pq$	p=12 q=14	4.9051
	4PHFYT-5870	$(0.25+0.25a+0.25b+0.5ab)/2ab$	A=12 B=14	4.9053
	6XBMGX-5875	*	*	4.68
	7KYGGZ-5870	$1+p+q+2pq/8pq$	p=12, q=14	4.91
	8MJBVV-5870	$(1+p+q+2pq)/8pq$	p = 12 q = 14	4.905
	8WRKMY-5870	$(1+p+r+2pr)/8pr$	p=12 r=14	4.9052
	8Z7HTW-5875	N/A	N/A	4.680
	9CGAVW-5875	$(1+p+q+2pq)/8pq$	p=12 q=14	4.9053
	A2ZQCZ-5875			4.905
	A797LN-5870	$(1+p+q+2pq)/8pq$	p=12 q=14	4.905
	AJHPGX-5870	$(1+p+q+2pq)/8pq$	P=12 Q=14	4.9053
	AL24KX-5870	$(1+p+q+2pq)/8pq$	p=12 q=14	4.9052
	BBZX7Q-5870	$(1+p+q+2pq)/8pq$	p=12 q=14	4.9052
	CWV7U-5875	$(1+p+r+2pr)/8pr$	p=12 r=14	4.9053
	D934LR-5875	N/A	N/A	4.680
	EGU2NK-5870	$(1+p+q+2pq)/8pq$	p = 12 q = 14	4.905
	F7RZNK-5870	$(1+p+q+2pq)/8pq$	p=12 q=14	4.9052
	FAEAP-5870	$((1*0.25)+(((a+b)/2)*0.5)+((2ab)*0.25))/2ab$	a=12 b=14	4.905251189
	HKGWYE-5870	$2Z2+Z1(pa+pb)/4papb+Z0$	a = 12 b = 14	4.905
	JJ4FJF-5870	$(1+p+q+2pq)/8pq$	p=12 q=14	4.905
KC2T6L-5875	$1+p+q+2pq/8pq$	p=12 q=14	4.9	
MBX6EL-5870	$(1+p+q+2pq)/8pq$	p=12 q=14	4.9053	
NLWZCG-5875	*	*	4.680	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D8S1179	P9KE48-5870	$(0.25+0.25a+0.25b+0.5ab)/2ab$	a=12 b=14	4.905
	PAFW79-5870	$(1+a+b+2ab)/8ab$	a = 12 b = 14	4.905
	Q22BW6-5870	$(1+q+p+2pq)/8pq$	p=12 q=14	4.905
	QB3VXC-5870	$(1+p+q+2pq)/8pq$	p = 12 q = 14	4.9053
	QQZPQ7-5870	$(1+p+q+2pq)/(8pq)$	p = 12 q = 14	4.905
	WB7A82-5870	$(0.25+0.25a+0.25b+0.5ab)/2ab$	a=12 b=14	4.90525
	WCGDEX-5870	$(1+p+q+2pq)/8pq$	p = 12 q = 14	4.9053
	WG9FM4-5870	$(1+p+q+2pq)/8pq$	p=12 q=14	4.9052
	X77HCA-5875	$(1+p+q+2pq)/8pq$	p=12 q=14	4.905
	ZLXWP9-5875	$(1+p+q+2pq)/8pq$	p=12 q=14	4.9053
	ZYZM88-5870	$(1+p+q+2pq)/8pq$	p = 12 q = 14	4.9053

Statistical Analysis Summary of D8S1179
Likelihood Ratio Mode: 4.905

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D10S1248	3QF9G7-5875	$(1+2p)/8p$	$p=12$	1.2107
	4PHFYT-5870	$(0.25b+0.5ab)/2ab$	A=12 B=13	1.2108
	6XBMGX-5875	*	*	1.17
	7KYYGZ-5870	$1+2p/8p$	$p=12$	1.21
	8MJBWV-5870	$(1+2p)/8p$	$p = 12 \quad p = 13 \quad r = 15$	1.211
	8WRKMV-5870	$(1+2p)/8p$	$p=12$	1.2108
	8Z7HTW-5875	N/A	N/A	1.169
	9CGAVW-5875	$(1+2p)/8p$	$p=12$	1.2108
	A2ZQCZ-5875			1.210
	A797LN-5870	$(1+2p)/8p$	$p=12$	1.211
	AJHPGX-5870	$(1+2p)/8p$	$P=12$	1.2108
	AL24KX-5870	$(1+2p)/8p$	$p=12$	1.2107
	BBZX7Q-5870	$(1+2p)/8p$	$p=12$	1.2108
	CWV7U-5875	$(1+2p)/8p$	$p=12$	1.2108
	D934LR-5875	N/A	N/A	1.169
	EGU2NK-5870	$(1+2p)/8p$	$p = 12$	1.211
	F7RZNK-5870	$(1+2p)/8p$	$p=12$	1.2108
	FAREAP-5870	$((0*0.25)+((c/2*0.5)+((2ac)*0.25))/2ac$	a=12 b=13 c=15	1.210799385
	HKGWYE-5870	$Z1/4pa+Z0$	a = 12	1.211
	JJ4FJF-5870	$(1+2p)/8p$	$p=12$	1.211
	KC2T6L-5875	$1+2p/8p$	$p=12$	1.2
	MBX6EL-5870	$(1+2p)/8p$	$p=12$	1.2108
	NLWZCG-5875	*	*	1.169
	P9KE48-5870	$(0.25b+0.5ab)/2ab$	a=12 b=13	1.210

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D10S1248	PAFW79-5870	$(1+2a)/8a$	a = 12	1.211
	Q22BW6-5870	$(1+2p)/8p$	p=12	1.211
	QB3VXC-5870	$(1+2p)/8p$	p = 12	1.2108
	QQZPQ7-5870	$(1+2p)/(8p)$	p = 12	1.211
	WB7A82-5870	$(0.25b+0.5ab)/2ab$	a=12 b=13 c=15	1.21079
	WCGDEX-5870	$(1+2p)/8p$	p = 12	1.2108
	WG9FM4-5870	$(1+2p)/8p$	p=12	1.2108
	X77HCA-5875	$(1+2p)/8p$	p=12	1.211
	ZLXWP9-5875	$(1+2p)/8p$	p=12	1.2108
	ZYZM88-5870	$(1+2p)/8p$	p = 12	1.2108

Statistical Analysis Summary of D10S1248
Likelihood Ratio Mode: 1.2108

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D12S391	3QF9G7-5875	$(1+2q)/8q$	q=18	0.7442
	4PHFYT-5870	$(0.25b+0.5ab)/2ab$	A=18 B=16	0.74427
	6XBMGX-5875	*	*	0.74
	7KYYGZ-5870	$1+2p/8p$	p=18	0.74
	8MJBWV-5870	$(1+2q)/8q$	p = 16 q = 18 r = 20	0.7443
	8WRKMV-5870	$(1+2r)/8r$	r=18	0.7442
	8Z7HTW-5875	N/A	N/A	0.7402
	9CGAVW-5875	$(1+2q)/8q$	q=18	0.7443
	A2ZQCZ-5875			0.744
	A797LN-5870	$(1+2p)/8p$	p=18	0.7443
	AJHPGX-5870	$(1+2p)/8p$	P=18	0.7443
	AL24KX-5870	$(1+2p)/8p$	p=18	0.7442
	BBZX7Q-5870	$(1+2p)/8p$	p=18	0.7442
	CWV7U-5875	$(1+2r)/8r$	r=18	0.7443
	D934LR-5875	N/A	N/A	0.7402
	EGU2NK-5870	$(1+2p)/8p$	p = 18	0.7443
	F7RZNK-5870	$(1+2p)/8p$	p=18	0.7442
	FAREAP-5870	$((0*0.25)+((c/2)*0.5)+((2bc)*0.25))/2bc$	a=16 b=18 c=20	0.744266509
	HKGWYE-5870	$Z1/4pa+Z0$	a = 18	0.744
	JJ4FJF-5870	$(1+2p)/8p$	p=18	0.7443
	KC2T6L-5875	$1+2p/8p$	p=18	0.7
	MBX6EL-5870	$(1+2p)/8p$	p=18	0.7443
	NLWZCG-5875	*	*	0.7402
P9KE48-5870	$(0.25b+0.5ab)/2ab$	a=18 b=20	0.7442	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D12S391	PAFW79-5870	$(1+2a)/8a$	a = 18	.7443
	Q22BW6-5870	$(1+2p)/8p$	p=18	0.7443
	QB3VXC-5870	N.A.	N.A.	
	QQZPQ7-5870	$(1+2p)/(8p)$	p = 18	0.7443
	WB7A82-5870	$(0.25b+0.5ab)/2ab$	a=18 b=16 c=20	0.74426
	WCGDEX-5870	$(1+2p)/8p$	p = 18	0.7443
	WG9FM4-5870	$(1+2p)/8p$	p=18	0.7442
	X77HCA-5875	$(1+2q)/8q$	q=18	0.7443
	ZLXWP9-5875	$(1+2q)/8q$	q=18	0.7443
	ZYZM88-5870	$(1+2p)/8p$	p = 18	0.7443

Statistical Analysis Summary of D12S391
Likelihood Ratio Mode: 0.7443

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D13S317	3QF9G7-5875	$(1+q)/(4q)$	q=12	0.8479
	4PHFYT-5870	$(0.5a+0.5ab)/2ab$	A=11 B=12	0.84794
	6XBMGX-5875	*	*	0.84
	7KYYGZ-5870	$1+p/4p$	p=12	0.85
	8MJBWV-5870	$(1+q)/4q$	p = 11 q = 12	0.8479
	8WRKMV-5870	$(1+q)/4q$	q=12	0.8479
	8Z7HTW-5875	N/A	N/A	0.8382
	9CGAVW-5875	$(1+q)/4q$	q=12	0.8479
	A2ZQCZ-5875			0.847
	A797LN-5870	$(1+p)/4p$	p=12	0.8479
	AJHPGX-5870	$(1+p)/4p$	P=12	0.8479
	AL24KX-5870	$(1+p)/4p$	p=12	0.8479
	BBZX7Q-5870	$(1+p)/4p$	p=12	0.8479
	CWV7U-5875	$(1+q)/4q$	q=12	0.8479
	D934LR-5875	N/A	N/A	0.8382
	EGU2NK-5870	$(1+p)/4p$	p = 12	0.8479
	F7RZNK-5870	$(1+p)/4p$	p=12	0.8479
	FAREAP-5870	$((0*0.25)+((b/2)*0.5)+((b*b)*0.25))/b*b$	a=11 b=12	0.847943076
	HKGWYE-5870	$Z1/2pa+Z0$	a = 12	0.848
	JJ4FJF-5870	$(1+p)/4p$	p=12	0.8479
	KC2T6L-5875	$1+p/4p$	p=12	0.8
	MBX6EL-5870	$(1+p)/4p$	p=12	0.8479
	NLWZCG-5875	*	*	0.8382
P9KE48-5870	$(0.25a+0.25a^2)/a^2$	a=12	0.8479	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D13S317	PAFW79-5870	$(1+a)/4a$	$a = 12$.8479
	Q22BW6-5870	$(1+p)/4p$	$p=12$	0.8479
	QB3VXC-5870	$(1+p)/4p$	$p = 12$	0.8479
	QQZPQ7-5870	$(1+p)/(4p)$	$p = 12$	0.8479
	WB7A82-5870	$(0.25a+0.25a^2)/a^2$	$a=12 \ b=11$	0.84794
	WCGDEX-5870	$(1+p)/4p$	$p = 12$	0.8479
	WG9FM4-5870	$(1+p)/4p$	$p=12$	0.8479
	X77HCA-5875	$(1+p)/4p$	$p=12$	0.8479
	ZLXWP9-5875	$(1+q)/(4q)$	$q=12$	0.8479
	ZYZM88-5870	$(1+p)/4p$	$p = 12$	0.8479

Statistical Analysis Summary of D13S317
Likelihood Ratio Mode: 0.8479

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D16S539	3QF9G7-5875	$(1+2p+pp)/4pp$	$p=11$	4.3710
	4PHFYT-5870	$(0.25+0.5a+0.25a^2)/a^2$	$A=11$	4.3716
	6XBMGX-5875	*	*	4.03
	7KYYGZ-5870	$(1+P)^2/4P^2$	$p=11$	4.37
	8MJBWV-5870	$(8p^2+4(2+4p))/32p^2$	$p=11$	4.372
	8WRKMV-5870	$(1+2p+pp)/4pp$	$p=11$	4.3716
	8Z7HTW-5875	N/A	N/A	4.029
	9CGAVW-5875	$(1+2p+pp)/4pp$	$p=11$	4.3716
	A2ZQCZ-5875			4.371
	A797LN-5870	$[(1+p)^2]/4p^2$	$p=11$	4.372
	AJHPGX-5870	$(1+2p+pp)/4pp$	$P=11$	4.3716
	AL24KX-5870	$(1+2p+pp)/4pp$	$p=11$	4.3715
	BBZX7Q-5870	$(1+2p+pp)/4pp$	$p=11$	4.3716
	CWV7U-5875	$(1+2p+pp)/4pp$	$p=11$	4.3716
	D934LR-5875	N/A	N/A	4.029
	EGU2NK-5870	$(1+p)^2/4p^2$	$p=11$	4.372
	F7RZNK-5870	$(1+2p+pp)/4pp$	$p=11$	4.3716
	FAREAP-5870	$((1*0.25)+(a*0.5)+((a*a)*0.25))/a*a$	$a=11$	4.371598441
	HKGWYE-5870	$Z^2/pa^2+Z1/pa+Z0$	$a=11$	4.372
	JJ4FJF-5870	$(1+p)^2/4p^2$	$p=11$	4.372
	KC2T6L-5875	$(1+p)^2/(2p)^2$	$p=11$	4.4
	MBX6EL-5870	$(1+2p+pp)/4pp$	$p=11$	4.3716
	NLWZCG-5875	*	*	4.029
P9KE48-5870	$(0.25+0.5a+0.25a^2)/a^2$	$a=11$	4.371	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D16S539	PAFW79-5870	$(1+a)^2/4a^2$	$a = 11$	4.372
	Q22BW6-5870	$(1+p)(1+p)/4(p)(p)$	$p=11$	4.372
	QB3VXC-5870	$(1+p)^2/4p^2$	$p = 11$	4.3716
	QQZPQ7-5870	$(1+p)^2/(4p^2)$	$p = 11$	4.372
	WB7A82-5870	$(0.25+0.5a+0.25a^2)/a^2$	$a=11$	4.37159
	WCGDEX-5870	$(1+p)^2/4p^2$	$p = 11$	4.3716
	WG9FM4-5870	$(1+2p+pp)/4pp$	$p=11$	4.3716
	X77HCA-5875	$[(1+p)(1+p)]/[(2p)(2p)]$	$p=11$	4.372
	ZLXWP9-5875	$(1+2p+pp)/4pp$	$p=11$	4.3716
	ZYZM88-5870	$(1+2p+pp)/4pp$	$p = 11$	4.3716

Statistical Analysis Summary of D16S539
Likelihood Ratio Mode: 4.3716

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D18S51	3QF9G7-5875	$(1+2p)/8p$	$p=12$	1.8943
	4PHFYT-5870	$(0.25b+0.5ab)/2ab$	A=12 B=20	1.8947
	6XBMGX-5875	*	*	1.75
	7KYYGZ-5870	$1+2p/8p$	$p=12$	1.89
	8MJBWV-5870	$(1+2p)/8p$	$p=12 \quad q=20 \quad r=21$	1.895
	8WRKMV-5870	$(1+2p)/8p$	$p=12$	1.8947
	8Z7HTW-5875	N/A	N/A	1.746
	9CGAVW-5875	$(1+2p)/8p$	$p=12$	1.8947
	A2ZQCZ-5875			1.894
	A797LN-5870	$(1+2p)/8p$	$p=12$	1.895
	AJHPGX-5870	$(1+2p)/8p$	$P=12$	1.8947
	AL24KX-5870	$(1+2p)/8p$	$p=12$	1.8947
	BBZX7Q-5870	$(1+2p)/8p$	$p=12$	1.8947
	CWV7U-5875	$(1+2p)/8p$	$p=12$	1.8947
	D934LR-5875	N/A	N/A	1.746
	EGU2NK-5870	$(1+2p)/8p$	$p=12$	1.895
	F7RZNK-5870	$(1+2p)/8p$	$p=12$	1.8947
	FAREAP-5870	$((0*0.25)+((c/2*0.5)+((2ac)*0.25))/2ac$	$a=12 \quad b=20 \quad c=21$	1.894736842
	HKGWYE-5870	$Z1/4pa+Z0$	$a=12$	1.895
	JJ4FJF-5870	$(1+2p)/8p$	$p=12$	1.895
	KC2T6L-5875	$1+2p/8p$	$p=12$	1.9
	MBX6EL-5870	$(1+2p)/8p$	$p=12$	1.8947
	NLWZCG-5875	*	*	1.746
P9KE48-5870	$(0.25b+0.5ab)/2ab$	$a=12 \quad b=20$	1.894	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D18S51	PAFW79-5870	$(1+2a)/8a$	a = 12	1.895
	Q22BW6-5870	$(1+2p)/8p$	p=12	1.895
	QB3VXC-5870	$(1+2p)/8p$	p = 12	1.8947
	QQZPQ7-5870	$(1+2p)/(8p)$	p = 12	1.895
	WB7A82-5870	$(0.25b+0.5ab)/2ab$	a=12 b=20 c=21	1.89473
	WCGDEX-5870	$(1+2p)/8p$	p = 12	1.8947
	WG9FM4-5870	$(1+2p)/8p$	p=12	1.8947
	X77HCA-5875	$(1+2p)/8p$	p=12	1.895
	ZLXWP9-5875	$(1+2p)/8p$	p=12	1.8947
	ZYZM88-5870	$(1+2p)/8p$	p = 12	1.8947

Statistical Analysis Summary of D18S51
Likelihood Ratio Mode: 1.8947

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D19S433	3QF9G7-5875	$(1+2p)/8p$	$p=11$	2.2382
	4PHFYT-5870	$(0.25b+0.5ab)/2ab$	A=11 B=14	2.2373
	6XBMGX-5875	*	*	2.02
	7KYYGZ-5870	$1+2p/8p$	$p=11$	2.24
	8MJBWV-5870	$(1+2p)/8p$	$p = 11 \quad q = 13 \quad r = 14$	2.237
	8WRKMV-5870	$(1+2p)/8p$	$p=11$	2.2372
	8Z7HTW-5875	N/A	N/A	2.015
	9CGAVW-5875	$(1+2p)/8p$	$p=11$	2.2373
	A2ZQCZ-5875			2.238
	A797LN-5870	$(1+2p)/8p$	$p=11$	2.237
	AJHPGX-5870	$(1+2p)/8p$	$P=11$	2.2373
	AL24KX-5870	$(1+2p)/8p$	$p=11$	2.2372
	BBZX7Q-5870	$(1+2p)/8p$	$p=11$	2.2372
	CWV7U-5875	$(1+2p)/8p$	$p=11$	2.2373
	D934LR-5875	N/A	N/A	2.015
	EGU2NK-5870	$(1+2p)/8p$	$p = 11$	2.237
	F7RZNK-5870	$(1+2p)/8p$	$p=11$	2.2372
	FAREAP-5870	$((0*0.25)+((c/2*0.5)+((2ac)*0.25))/2ac$	$a=11 \quad b=14 \quad c=13$	2.237281399
	HKGWYE-5870	$Z1/4pa+Z0$	$a = 11$	2.237
	JJ4FJF-5870	$(1+2p)/8p$	$p=11$	2.237
	KC2T6L-5875	$1+2p/8p$	$p=11$	2.2
	MBX6EL-5870	$(1+2p)/8p$	$p=11$	2.2373
	NLWZCG-5875	*	*	2.015
P9KE48-5870	$(0.25b+0.5ab)/2ab$	$a=11 \quad b=13$	2.237	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D19S433	PAFW79-5870	$(1+2a)/8a$	a = 11	2.237
	Q22BW6-5870	$(1+2p)/8p$	p=11	2.237
	QB3VXC-5870	$(1+2p)/8p$	p = 11	2.2373
	QQZPQ7-5870	$(1+2p)/(8p)$	p = 11	2.237
	WB7A82-5870	$(0.25b+0.5ab)/2ab$	a=11 b=14 c=13	2.23728
	WCGDEX-5870	$(1+2p)/8p$	p = 11	2.2373
	WG9FM4-5870	$(1+2p)/8p$	p=11	2.2372
	X77HCA-5875	$(1+2p)/8p$	p=11	2.237
	ZLXWP9-5875	$(1+2p)/8p$	p=11	2.2373
	ZYZM88-5870	$(1+2p)/8p$	p = 11	2.2373

Statistical Analysis Summary of D19S433
Likelihood Ratio Mode: 2.237

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D21S11	3QF9G7-5875	$(1+p+q+2pq)/8pq$	$p=29 \quad q=30$	5.1989
	4PHFYT-5870	$(0.25+0.25a+0.25b+0.5ab)/2ab$	A=29 B=30	5.1982
	6XBMGX-5875	*	*	4.98
	7KYGGZ-5870	$1+p+q+2pq/8pq$	$p=29, q=30$	5.20
	8MJBVV-5870	$(1+p+q+2pq)/8pq$	$p = 29 \quad q = 30$	5.198
	8WRKMY-5870	$(1+p+q+2pq)/8pq$	$p=29 \quad q=30$	5.1982
	8Z7HTW-5875	N/A	N/A	4.979
	9CGAVW-5875	$(1+p+q+2pq)/8pq$	$p=29 \quad q=30$	5.1982
	A2ZQCZ-5875			5.198
	A797LN-5870	$(1+p+q+2pq)/8pq$	$p=29 \quad q=30$	5.198
	AJHPGX-5870	$(1+p+q+2pq)/8pq$	P=29 Q=30	5.1982
	AL24KX-5870	$(1+p+q+2pq)/8pq$	$p=29 \quad q=30$	5.1982
	BBZX7Q-5870	$(1+p+q+2pq)/8pq$	$p=29 \quad q=30$	5.1982
	CWV7U-5875	$(1+p+q+2pq)/8pq$	$p=29 \quad q=30$	5.1982
	D934LR-5875	N/A	N/A	4.979
	EGU2NK-5870	$(1+p+q+2pq)/8pq$	$p = 29 \quad q = 30$	5.198
	F7RZNK-5870	$(1+p+q+2pq)/8pq$	$p=29 \quad q=30$	5.1982
	FAEAP-5870	$((1*0.25)+(((a+b)/2)*0.5)+((2ab)*0.25))/2ab$	a=29 b=30	5.198207109
	HKGWYE-5870	$2Z2+Z1(pa+pb)/4papb+Z0$	a = 29 b = 30	5.198
	JJ4FJF-5870	$(1+p+q+2pq)/8pq$	$p=29 \quad q=30$	5.198
KC2T6L-5875	$1+p+q+2pq/8pq$	$p=29 \quad l=30$	5.2	
MBX6EL-5870	$(1+p+q+2pq)/8pq$	$p=29 \quad q=30$	5.1982	
NLWZCG-5875	*	*	4.979	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D21S11	P9KE48-5870	$(0.25+0.25a+0.25b+0.5ab)/2ab$	a=29 b=30	5.198
	PAFW79-5870	$(1+a+b+2ab)/8ab$	a = 29 b = 30	5.198
	Q22BW6-5870	$(1+q+p+2pq)/8pq$	p=29 q=30	5.198
	QB3VXC-5870	$(1+p+q+2pq)/8pq$	p = 29 q = 30	5.1982
	QQZPQ7-5870	$(1+p+q+2pq)/(8pq)$	p = 29 q = 30	5.198
	WB7A82-5870	$(0.25+0.25a+0.25b+0.5ab)/2ab$	a=29 b=30	5.19820
	WCGDEX-5870	$(1+p+q+2pq)/8pq$	p = 29 q = 30	5.1982
	WG9FM4-5870	$(1+p+q+2pq)/8pq$	p=29 q=30	5.1982
	X77HCA-5875	$(1+p+q+2pq)/8pq$	p=29 q=30	5.198
	ZLXWP9-5875	$(1+p+q+2pq)/8pq$	p=29 q=30	5.1982
	ZYZM88-5870	$(1+p+q+2pq)/8pq$	p = 29 q = 30	5.1982

Statistical Analysis Summary of D21S11
Likelihood Ratio Mode: 5.1982

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D22S1045	3QF9G7-5875	$(1+p)/4p$	$p=11$	1.9772
	4PHFYT-5870	$(0.25a+0.25a^2)/a^2$	$A=11$	1.9777
	6XBMGX-5875	*	*	1.81
	7KYYGZ-5870	$1+p/4p$	$p=11$	1.98
	8MJBWV-5870	$(1+p)/4p$	$p = 11 \quad q = 17$	1.978
	8WRKMV-5870	$(1+p)/4p$	$p=11$	1.9777
	8Z7HTW-5875	N/A	N/A	1.812
	9CGAVW-5875	$(1+p)/4p$	$p=11$	1.9777
	A2ZQCZ-5875			1.977
	A797LN-5870	$(1+p)/4p$	$p=11$	1.978
	AJHPGX-5870	$(1+p)/4p$	$P=11$	1.9777
	AL24KX-5870	$(1+p)/4p$	$p=11$	1.9777
	BBZX7Q-5870	$(1+p)/4p$	$p=11$	1.9777
	CWV7U-5875	$(1+p)/4p$	$p=11$	1.9777
	D934LR-5875	N/A	N/A	1.812
	EGU2NK-5870	$(1+p)/4p$	$p = 11$	1.978
	F7RZNK-5870	$(1+p)/4p$	$p=11$	1.9777
	FAREAP-5870	$((0*0.25)+((a/2)*0.5)+((a*a)*0.25))/a*a$	$a=11 \quad b=17$	1.977712509
	HKGWYE-5870	$Z1/2pa+Z0$	$a = 11$	1.978
	JJ4FJF-5870	$(1+p)/4p$	$p=11$	1.978
	KC2T6L-5875	$1+p/4p$	$p=11$	2.0
MBX6EL-5870	$(1+p)/4p$	$p=11$	1.9777	
NLWZCG-5875	*	*	1.812	
P9KE48-5870	$(0.25a+0.25a^2)/a^2$	$a=11$	1.977	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D22S1045	PAFW79-5870	$(1+a)/4a$	a = 11	1.978
	Q22BW6-5870	$(1+p)/4p$	p=11	1.978
	QB3VXC-5870	$(1+p)/4p$	p = 11	1.9777
	QQZPQ7-5870	$(1+p)/(4p)$	p = 11	1.978
	WB7A82-5870	$(0.25a+0.25a^2)/a^2$	a=11 b-17	1.97771
	WCGDEX-5870	$(1+p)/4p$	p = 11	1.9777
	WG9FM4-5870	$(1+p)/4p$	p=11	1.9777
	X77HCA-5875	$(1+p)/4p$	p=11	1.978
	ZLXWP9-5875	$(1+p)/4p$	p=11	1.9777
	ZYZM88-5870	$(1+p)/4p$	p = 11	1.9777

Statistical Analysis Summary of D22S1045
Likelihood Ratio Mode: 1.9777

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
CSF1PO	3QF9G7-5875	$(1+p)/4p$	$p=12$	1.0965
	4PHFYT-5870	$(0.25a+0.25a^2)/a^2$	$A=12$	1.0966
	6XBMGX-5875	*	*	1.07
	7KYYGZ-5870	$1+p/4p$	$p=12$	1.10
	8MJBWV-5870	$(1+p)/4p$	$p = 12 \quad q = 8$	1.097
	8WRKMV-5870	$(1+t)/4t$	$t=12$	1.0966
	8Z7HTW-5875	N/A	N/A	1.067
	9CGAVW-5875	$(1+p)/4p$	$p=0.295$	1.0966
	A2ZQCZ-5875			1.096
	A797LN-5870	$(1+p)/4p$	$p=12$	1.097
	AJHPGX-5870	$(1+p)/4p$	$P=12$	1.0966
	AL24KX-5870	$(1+p)/4p$	$p=12$	1.0965
	BBZX7Q-5870	$(1+p)/4p$	$p=12$	1.0966
	CWV7U-5875	$(1+t)/4t$	$t=12$	1.0966
	D934LR-5875	N/A	N/A	1.067
	EGU2NK-5870	$(1+p)/4p$	$p = 12$	1.097
	F7RZNK-5870	$(1+p)/4p$	$p=12$	1.0966
	FAREAP-5870	$((0*0.25)+(b*0.5)+((2ab)*0.25))/2ab$	$a=12 \quad b=8$	1.096596681
	HKGWYE-5870	$Z1/2pa+Z0$	$a = 12$	1.097
	JJ4FJF-5870	$(1+p)/4p$	$p=12$	1.097
	KC2T6L-5875	$1+p/4p$	$p=12$	1.1
	MBX6EL-5870	$(1+p)/4p$	$p=12$	1.0966
	NLWZCG-5875	*	*	1.067
P9KE48-5870	$(0.25a+0.25a^2)/a^2$	$a=12$	1.096	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
CSF1PO	PAFW79-5870	$(1+a)/4a$	$a = 12$	1.097
	Q22BW6-5870	$(1+q)/4q$	$q=12$	1.097
	QB3VXC-5870	$(1+p)/4p$	$p = 12$	1.0966
	QQZPQ7-5870	$(1+p)/(4p)$	$p = 12$	1.097
	WB7A82-5870	$(0.25a+0.25a^2)/a^2$	$a=12 \ b=8$	1.09659
	WCGDEX-5870	$(1+p)/4p$	$p = 12$	1.0966
	WG9FM4-5870	$(1+p)/4p$	$p=12$	1.0966
	X77HCA-5875	$(1+p)/4p$	$p=12$	1.097
	ZLXWP9-5875	$(1+p)/4p$	$p=12$	1.0966
	ZYZM88-5870	$(1+p)/4p$	$p = 12$	1.0966

Statistical Analysis Summary of CSF1PO
Likelihood Ratio Mode: 1.0966

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
FGA	3QF9G7-5875	$(1+p+q+2pq)/8pq$	p=24 q=26	16.3587
	4PHFYT-5870	$(0.25+0.25a+0.25b+0.5ab)/2ab$	A=24 B=26	16.359
	6XBMGX-5875	*	*	14.21
	7KYGGZ-5870	$1+p+q+2pq/8pq$	p=24, q=26	16.36
	8MJBVV-5870	$(1+p+q+2pq)/8pq$	p = 24 q = 26	16.36
	8WRKMY-5870	$(1+p+r+2pr)/8pr$	p=24 r=26	16.3586
	8Z7HTW-5875	N/A	N/A	14.21
	9CGAVW-5875	$(1+p+q+2pq)/8pq$	p=24 q=26	16.3586
	A2ZQCZ-5875			16.35
	A797LN-5870	$(1+p+q+2pq)/8pq$	p=24 q=26	16.36
	AJHPGX-5870	$(1+p+q+2pq)/8pq$	P=24 Q=26	16.3586
	AL24KX-5870	$(1+p+q+2pq)/8pq$	p=24 q=26	16.3586
	BBZX7Q-5870	$(1+p+q+2pq)/8pq$	p=24 q=26	16.3586
	CWV7U-5875	$(1+p+r+2pr)/8pr$	p=24 r=26	16.3586
	D934LR-5875	N/A	N/A	14.21
	EGU2NK-5870	$(1+p+q+2pq)/8pq$	p = 24 q = 26	16.36
	F7RZNK-5870	$(1+p+q+2pq)/8pq$	p=24 q=26	16.3586
	FAEAP-5870	$((1*0.25)+(((a+b)/2)*0.5)+((2ab)*0.25))/2ab$	a=24 b=26	16.35864769
	HKGWYE-5870	$2Z2+Z1(pa+pb)/4papb+Z0$	a = 24 b = 26	16.359
	JJ4FJF-5870	$(1+p+q+2pq)/8pq$	p=24 q=26	16.36
KC2T6L-5875	$1+p+q+2pq/8pq$	p=24 q=26	16.4	
MBX6EL-5870	$(1+p+q+2pq)/8pq$	p=24 q=26	16.3586	
NLWZCG-5875	*	*	14.21	

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
FGA	P9KE48-5870	$(0.25+0.25a+0.25b+0.5ab)/2ab$	a=24 b=26	16.35
	PAFW79-5870	$(1+a+b+2ab)/8ab$	a = 24 b = 26	16.36
	Q22BW6-5870	$(1+q+p+2pq)/8pq$	p=24 q=26	16.36
	QB3VXC-5870	$(1+p+q+2pq)/8pq$	p = 24 q = 26	16.3586
	QQZPQ7-5870	$(1+p+q+2pq)/(8pq)$	p = 24 q = 26	16.36
	WB7A82-5870	$(0.25+0.25a+0.25b+0.5ab)/2ab$	a=24 b=26	16.35864
	WCGDEX-5870	$(1+p+q+2pq)/8pq$	p = 24 q = 26	16.3586
	WG9FM4-5870	$(1+p+q+2pq)/8pq$	p=24 q=26	16.3586
	X77HCA-5875	$(1+p+q+2pq)/8pq$	p=24 q=26	16.36
	ZLXWP9-5875	$(1+p+q+2pq)/8pq$	p=24 q=26	16.3586
	ZYZM88-5870	$(1+p+q+2pq)/8pq$	p = 24 q = 26	16.3586

Statistical Analysis Summary of FGA
Likelihood Ratio Mode: 16.3586

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
PentaD	3QF9G7-5875	$(1+2p)/8p$	$p=9$	0.9935
	4PHFYT-5870	$(0.25b+0.5ab)/2ab$	A=9 B=10	0.99360
	6XBMGX-5875	*	*	
	7KYYGZ-5870	$1+2p/8p$	$p=9$	0.99
	8MJBWV-5870	$(1+2r)/8r$	$r = p \quad p = 10 \quad q = 13$	0.9936
	8WRKMV-5870	$(1+2p)/8p$	$p=9$	0.9936
	8Z7HTW-5875	N/A	N/A	
	9CGAVW-5875	$(1+2p)/8p$	$p=9$	0.9936
	A2ZQCZ-5875			0.993
	A797LN-5870	$(1+2p)/8p$	$p=9$	0.9936
	AJHPGX-5870	$(1+2p)/8p$	$P=9$	0.9936
	AL24KX-5870	$(1+2p)/8p$	$p=9$	0.9936
	BBZX7Q-5870	$(1+2p)/8p$	$p=9$	0.9936
	CWV7U-5875	$(1+2p)/8p$	$p=9$	0.9936
	D934LR-5875	N/A	N/A	
	EGU2NK-5870	$(1+2p)/8p$	$p = 9$	0.9936
	F7RZNK-5870	$(1+2p)/8p$	$p=9$	0.9936
	FAREAP-5870	$((0*0.25)+((c/2*0.5)+((2ac)*0.25))/2ac$	$a=9 \quad b=10 \quad c=13$	0.993604997
	HKGWYE-5870	$Z1/4pa+Z0$	$a = 9$	0.994
	JJ4FJF-5870	$(1+2p)/8p$	$p=9$	0.9936
	KC2T6L-5875	$1+2p/8p$	$p=9$	1.0
	MBX6EL-5870	$(1+2p)/8p$	$p=9$	0.9936
	NLWZCG-5875	^	^	
	P9KE48-5870	$(0.25b+0.5ab)/2ab$	$a=9 \quad b=10$	0.9936

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
PentaD	PAFW79-5870	$(1+2a)/8a$	a = 9	.9936
	Q22BW6-5870	$(1+2p)/8p$	p=9	0.9936
	QB3VXC-5870	N.A.	N.A.	
	QQZPQ7-5870	$(1+2p)/(8p)$	p = 9	0.9936
	WB7A82-5870	$(0.25b+0.5ab)/2ab$	a=9 b=10 c=13	0.99360
	WCGDEX-5870	$(1+2p)/8p$	p = 9	0.9936
	WG9FM4-5870	$(1+2p)/8p$	p=9	0.9936
	X77HCA-5875	$(1+2p)/8p$	p=9	0.9936
	ZLXWP9-5875	$(1+2p)/8p$	p=9	0.9936
	ZYZM88-5870	$(1+2p)/8p$	p = 9	0.9936

Statistical Analysis Summary of PentaD
Likelihood Ratio Mode: 0.9936

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
PentaE	3QF9G7-5875	$(1+2p+pp)/4pp$	$p=14$	60.4811
	4PHFYT-5870	$(0.25+0.5a+0.25a^2)/a^2$	$A=14$	60.498
	6XBMGX-5875	*	*	
	7KYYGZ-5870	$(1+P)^2/4P^2$	$p=14$	60.50
	8MJBWV-5870	$(8p^2+4(2+4p))/32p^2$	$p=14$	60.50
	8WRKMV-5870	$(1+2p+pp)/4pp$	$p=14$	60.4976
	8Z7HTW-5875	N/A	N/A	
	9CGAVW-5875	$(1+2p+pp)/4pp$	$p=14$	60.4976
	A2ZQCZ-5875			60.47
	A797LN-5870	$[(1+p)^2]/4p^2$	$p=14$	60.50
	AJHPGX-5870	$(1+2p+pp)/4pp$	$P=14$	60.4976
	AL24KX-5870	$(1+2p+pp)/4pp$	$p=14$	60.4976
	BBZX7Q-5870	$(1+2p+pp)/4pp$	$p=14$	60.4976
	CWV7U-5875	$(1+2p+pp)/4pp$	$p=14$	60.4976
	D934LR-5875	N/A	N/A	
	EGU2NK-5870	$(1+p)^2/4p^2$	$p=14$	60.50
	F7RZNK-5870	$(1+2p+pp)/4pp$	$p=14$	60.4976
	FAREAP-5870	$((1*0.25)+(a*0.5)+((a*a)*0.25))/a*a$	$a=14$	60.49760101
	HKGWYE-5870	$Z^2/pa^2+Z1/pa+Z0$	$a=14$	60.498
	JJ4FJF-5870	$(1+p)^2/4p^2$	$p=14$	60.50
	KC2T6L-5875	$(1+p)^2/(2p)^2$	$p=14$	60.5
	MBX6EL-5870	$(1+2p+pp)/4pp$	$p=14$	60.4976
	NLWZCG-5875	^	^	
	P9KE48-5870	$(0.25+0.5a+0.25a^2)/a^2$	$a=14$	60.49

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
PentaE	PAFW79-5870	$(1+a)^2/4a^2$	$a = 14$	60.50
	Q22BW6-5870	$(1+p)(1+p)/4(p)(p)$	$p = 14$	60.50
	QB3VXC-5870	N.A.	N.A.	
	QQZPQ7-5870	$(1+p)^2/(4p^2)$	$p = 14$	60.50
	WB7A82-5870	$(0.25+0.5a+0.25a^2)/a^2$	$a = 14$	60.49760
	WCGDEX-5870	$(1+p)^2/4p^2$	$p = 14$	60.4976
	WG9FM4-5870	$(1+2p+pp)/4pp$	$p = 14$	60.4976
	X77HCA-5875	$[(1+p)(1+p)]/[(2p)(2p)]$	$p = 14$	60.50
	ZLXWP9-5875	$(1+2p+pp)/4pp$	$p = 14$	60.4976
	ZYZM88-5870	$(1+2p+pp)/4pp$	$p = 14$	60.4976

Statistical Analysis Summary of PentaE
Likelihood Ratio Mode: 60.4976

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
SE33	3QF9G7-5875	$(1+2p)/8p$	$p=25.2$	4.3217
	4PHFYT-5870	$(0.25b+0.5ab)/2ab$	$A=25.2 \ B=26.2$	4.3217
	6XBMGX-5875	*	*	3.41
	7KYYGZ-5870	$1+2p/8p$	$p=25.2$	4.32
	8MJBWV-5870	$(1+2p)/8p$	$p = 25.2 \ q = 26.2 \ r = 27.2$	4.322
	8WRKMV-5870	$(1+2p)/8p$	$p=25.2$	4.3216
	8Z7HTW-5875	N/A	N/A	3.407
	9CGAVW-5875	$(1+2p)/8p$	$p=25.2$	4.3217
	A797LN-5870	$(1+2p)/8p$	$p=25.2$	4.322
	AJHPGX-5870	$(1+2p)/8p$	$P=25.2$	4.3217
	AL24KX-5870	$(1+2p)/8p$	$p=25.2$	4.3216
	BBZX7Q-5870	$(1+2p)/8p$	$p=25.2$	4.3216
	CWV7U-5875	$(1+2p)/8p$	$p=25.2$	4.3217
	D934LR-5875	N/A	N/A	3.407
	EGU2NK-5870	$(1+2p)/8p$	$p = 25.2$	4.322
	F7RZNK-5870	$(1+2p)/8p$	$p=25.2$	4.3216
	FAREAP-5870	$((0*0.25)+((c/2*0.5)+((2ac)*0.25))/2ac)$	$a=25.2 \ b=26.2 \ c=27.2$	4.321661238
	HKGWYE-5870	$Z1/4pa+Z0$	$a = 25.2$	4.322
	JJ4FJF-5870	$(1+2p)/8p$	$p=25.2$	4.322
	KC2T6L-5875	$1+2p/8p$	$p=25.2$	4.3
	MBX6EL-5870	$(1+2p)/8p$	$p=25.2$	4.3217
	NLWZCG-5875	*	*	3.407
	P9KE48-5870	$(0.25b+0.5ab)/2ab$	$a=25.2 \ b=26.2$	4.321
	PAFW79-5870	$(1+2a)/8a$	$a = 25.2$	4.322

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
SE33	Q22BW6-5870	$(1+2p)/8p$	$p=25.2$	4.322
	QB3VXC-5870	$(1+2p)/8p$	$p = 25.2$	4.3217
	QQZPQ7-5870	$(1+2p)/(8p)$	$p = 25.2$	4.322
	WB7A82-5870	$(0.25b+0.5ab)/2ab$	$a=25.2 \ b=26.2 \ c=27.2$	4.32166
	WCGDEX-5870	$(1+2p)/8p$	$p = 25.2$	4.3217
	WG9FM4-5870	$(1+2p)/8p$	$p=25.2$	4.3216
	X77HCA-5875	$(1+2p)/8p$	$p=25.2$	4.322
	ZLXWP9-5875	$(1+2p)/8p$	$p=25.2$	4.3217
	ZYZM88-5870	$(1+2p)/8p$	$p = 25.2$	4.3217

Statistical Analysis Summary of SE33
Likelihood Ratio Mode: 4.3217

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
TH01	3QF9G7-5875	$(1+2p)/8p$	$p=8$	0.8880
	4PHFYT-5870	$(0.25b+0.5ab)/2ab$	$A=8 \ B=9$	0.88808
	6XBMGX-5875	*	*	0.88
	7KYYGZ-5870	$1+2p/8p$	$p=8$	0.89
	8MJBWV-5870	$(1+2p)/8p$	$p = 8 \ q = 9 \ r = 9.3$	0.8881
	8WRKMV-5870	$(1+2p)/8p$	$p=8$	0.8880
	8Z7HTW-5875	N/A	N/A	0.8754
	9CGAVW-5875	$(1+2p)/8p$	$p=8$	0.8881
	A2ZQCZ-5875			0.8881
	A797LN-5870	$(1+2p)/8p$	$p=8$	0.8881
	AJHPGX-5870	$(1+2p)/8p$	$P=8$	0.8881
	AL24KX-5870	$(1+2p)/8p$	$p=8$	0.8880
	BBZX7Q-5870	$(1+2p)/8p$	$p=8$	0.8880
	CWV7U-5875	$(1+2p)/8p$	$p=8$	0.8881
	D934LR-5875	N/A	N/A	0.8754
	EGU2NK-5870	$(1+2p)/8p$	$p = 8$	0.8881
	F7RZNK-5870	$(1+2p)/8p$	$p=8$	0.8880
	FAREAP-5870	$((0*0.25)+((c/2*0.5)+((2ac)*0.25))/2ac$	$a=8 \ b=9 \ c=9.3$	0.888080653
	HKGWYE-5870	$Z1/4pa+Z0$	$a = 8$	0.888
	JJ4FJF-5870	$(1+2p)/8p$	$p=8$	0.8881
	KC2T6L-5875	$1+2p/8p$	$p=8$	0.9
	MBX6EL-5870	$(1+2p)/8p$	$p=8$	0.8881
	NLWZCG-5875	*	*	0.8754
	P9KE48-5870	$(0.25b+0.5ab)/2ab$	$a=8 \ b=9$	0.8880

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
TH01	PAFW79-5870	$(1+2a)/8a$	a = 8	.8881
	Q22BW6-5870	$(1+2p)/8p$	p=8	0.8881
	QB3VXC-5870	$(1+2p)/8p$	p = 8	0.8881
	QQZPQ7-5870	$(1+2p)/(8p)$	p = 8	0.8881
	WB7A82-5870	$(0.25b+0.5ab)/2ab$	a=8 b=9 c=9.3	0.88808
	WCGDEX-5870	$(1+2p)/8p$	p = 8	0.8881
	WG9FM4-5870	$(1+2p)/8p$	p=8	0.8880
	X77HCA-5875	$(1+2p)/8p$	p=8	0.8881
	ZLXWP9-5875	$(1+2p)/8p$	p=8	0.8881
	ZYZM88-5870	$(1+2p)/8p$	p = 8	0.8881

Statistical Analysis Summary of TH01
Likelihood Ratio Mode: 0.8881

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
TPOX	3QF9G7-5875	1/4		0.2500
	4PHFYT-5870	0.25(ab)/(ab)	A=6 B=11	0.25000
	6XBMGX-5875	*	*	0.25
	7KYYGZ-5870	1/4		0.25
	8MJBWV-5870	1/4		0.250
	8WRKMV-5870	1/4		0.2500
	8Z7HTW-5875	N/A	N/A	0.2500
	9CGAVW-5875	1/4		0.25
	A2ZQCZ-5875			0.2500
	A797LN-5870	1/4		0.2500
	AJHPGX-5870	1/4		0.2500
	AL24KX-5870	1/4		0.2500
	BBZX7Q-5870	1/4		0.2500
	CWV7U-5875	1/4		0.2500
	D934LR-5875	N/A	N/A	0.2500
	EGU2NK-5870	1/4		0.2500
	F7RZNK-5870	1/4		0.2500
	FAREAP-5870	$((0*0.25)+(0*0.5)+((2cd)*0.25))/2cd$	a=6 b=11 c=9 d=10	0.25
	HKGWYE-5870	Z0		0.25
	JJ4FJF-5870	rs/2/2rs	r=9 s=10	0.2500
	KC2T6L-5875	1/4		0.25
	MBX6EL-5870	1/4		0.2500
	NLWZCG-5875	*	*	0.2500
	P9KE48-5870	0.25	N/A	0.2500

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
TPOX	PAFW79-5870	1/4		.2500
	Q22BW6-5870	0.5pq/2pq	p=9 q=10	0.2500
	QB3VXC-5870	1/4	N.A.	0.2500
	QQZPQ7-5870	(2pq)/(8pq)	p = 6 q = 11	0.25
	WB7A82-5870	0.25(ab)/(ab)=0.25	a=6 b=11 c=9 d=10	0.25000
	WCGDEX-5870	0.25	N/A	0.25
	WG9FM4-5870	1/4		0.2500
	X77HCA-5875	1/4	N/A	.2500
	ZLXWP9-5875	1/4		0.2500
	ZYZM88-5870	1/4		0.2500

Statistical Analysis Summary of TPOX
Likelihood Ratio Mode: 0.2500

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
vWA	3QF9G7-5875	$(1+2p+pp)/4pp$	$p=17$	6.8866
	4PHFYT-5870	$(0.25+0.5a+0.25a^2)/a^2$	$A=17$	6.8856
	6XBMGX-5875	*	*	6.07
	7KYYGZ-5870	$(1+P)^2/4P^2$	$p=17$	6.89
	8MJBWV-5870	$(8p^2+4(2+4p))/32p^2$	$p=17$	6.886
	8WRKMV-5870	$(1+2p+pp)/4pp$	$p=17$	6.8856
	8Z7HTW-5875	N/A	N/A	
	9CGAVW-5875	$(1+2p+pp)/4pp$	$p=17$	6.8856
	A2ZQCZ-5875			6.886
	A797LN-5870	$[(1+p)^2]/4p^2$	$p=17$	6.886
	AJHPGX-5870	$(1+2p+pp)/4pp$	$P=17$	6.8856
	AL24KX-5870	$(1+2p+pp)/4pp$	$p=17$	6.8856
	BBZX7Q-5870	$(1+2p+pp)/4pp$	$p=17$	6.8856
	CWV7U-5875	$(1+2p+pp)/4pp$	$p=17$	6.8856
	D934LR-5875	N/A	N/A	
	EGU2NK-5870	$(1+p)^2/4p^2$	$p=17$	6.886
	F7RZNK-5870	$(1+2p+pp)/4pp$	$p=17$	6.8856
	FAREAP-5870	$((1*0.25)+(a*0.5)+((a*a)*0.25))/a*a$	$a=17$	6.885607859
	HKGWYE-5870	$Z^2/pa^2+Z1/pa+Z0$	$a=17$	6.886
	JJ4FJF-5870	$(1+p)^2/4p^2$	$p=17$	6.886
	KC2T6L-5875	$(1+p)^2/(2p)^2$	$p=17$	6.9
	MBX6EL-5870	$(1+2p+pp)/4pp$	$p=17$	6.8856
	NLWZCG-5875	*	*	6.067
	P9KE48-5870	$(0.25+0.5a+0.25a^2)/a^2$	$a=17$	6.885

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
vWA	PAFW79-5870	$(1+a)^2/4a^2$	$a = 17$	6.886
	Q22BW6-5870	$(1+p)(1+p)/4(p)(p)$	$p=17$	6.886
	QB3VXC-5870	$(1+p)^2/4p^2$	$p = 17$	6.8856
	QQZPQ7-5870	$(1+p)^2/(4p^2)$	$p = 17$	6.886
	WB7A82-5870	$(0.25+0.5a+0.25a^2)/a^2$	$a=17$	6.88560
	WCGDEX-5870	$(1+p)^2/4p^2$	$p = 17$	6.8856
	WG9FM4-5870	$(1+2p+pp)/4pp$	$p=17$	6.8856
	X77HCA-5875	$[(1+p)(1+p)]/[(2p)(2p)]$	$p=17$	
	ZLXWP9-5875	$(1+2p+pp)/4pp$	$p=17$	6.8856
	ZYZM88-5870	$(1+2p+pp)/4pp$	$p = 17$	6.8856

Statistical Analysis Summary of vWA
Likelihood Ratio Mode: 6.8856

Kinship DNA Statistics

Is the claim of the following relationship supported by the genetic evidence: **Full Siblings?**

TABLE 7

WebCode-Test	Kinship Index	Claim Supported?
3QF9G7-5875	1,742,324,263.4804	Yes
4PHFYT-5870	1,743,000,000	Yes
6XBMGX-5875	1.1 million	Yes
7KYYGZ-5870	1.75E+09	Yes
8MJBVW-5870	1.74 x 10 ⁹	Yes
8WRKMW-5870	1.7425E+09	Yes
8Z7HTW-5875	1,100,000	Yes
9CGAWW-5875	1.742,500,122.8944	Yes
A2ZQCZ-5875	403 Million	Yes
A797LN-5870	2.3 billion	Yes
AJHPGX-5870	1,742,500,122.8944	Yes
AL24KX-5870	1.7425E+09	Yes
BBZX7Q-5870	1.7425e9	Yes
CWV7U-5875	1742500123	Yes
D934LR-5875	1,100,000 or 1.1 million	Yes
EGU2NK-5870	2.3 billion	Yes
F7RZNK-5870	1.7425E+9	Yes
FAEAP-5870	1742500123	Yes
HKGWYE-5870	1.7 billion	Yes
JJ4FJF-5870	2.3 billion	Yes
KC2T6L-5875	1.7E+09	Yes
MBX6EL-5870	1.7425E+09	Yes
NLWZCG-5875	1.1 million	Yes
P9KE48-5870	1,734,000,000	Yes
PAFW79-5870	2.3 billion	Yes
Q22BW6-5870	2.3 billion	Yes
QB3VXC-5870	38,948,651.03	Yes
QQZPQ7-5870	1.743E+09	Yes
WB7A82-5870	1,742,397,369	Yes

TABLE 7 - Kinship DNA Statistics

WebCode-Test	Kinship Index	Claim Supported?
WCGDEX-5870	approximately 1.7 billion	Yes
WG9FM4-5870	1.7425E+9	Yes
X77HCA-5875	3.635E+07	Yes
ZLXWP9-5875	253,064,095.2145	Yes
ZYZM88-5870	1.7425E+09	Yes

Response Summary	Participants: 34
<i>Is the relationship claim of Full Siblings supported?</i>	
Yes	34
No	0
Inconclusive	0

Additional Kinship Statistical Results

TABLE 8

WebCode-Test	Additional Statistical Results
4PHFYT-5870	AUTOSOMAL STRs: The DNA profile is single source. The kinship index supports the hypothesis that Profile D is the full sibling of Profile C using the reference populations listed. The genotype observed for Profile D is "X" times more likely to occur in a full sibling of Profile C than in someone unrelated to Profile C from the reference populations listed where "X" equals: African American – 1.7 Billion, Caucasian – 1.4 Trillion, Hispanic – 610 Billion.
6XBMGX-5875	* 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. Although the likelihood ratios for all loci are shown only one of the vWA/D12S391 loci were used to calculate the combined KI, due to linkage between these loci. For this example vWA was omitted. Also we do not test PentaD and PentaE in our laboratory so those loci were not evaluated. The individuals were reported to be African Americans; therefore only values for African American were reported.
8Z7HTW-5875	The likelihood ratios shown above were calculated using the Kin CALC software that uses standard formulae for simple PI's and 2-person KI's that incorporate a theta value of 0.01 with allele probabilities with no rounding and a 1/k prior instead of x/N. The combined PI (African American) shown 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 (African American) is only calculated to 2 significant figures by the Kin CALC software.
9CGAVW-5875	AABB standards would require that the reports states: The genetic evidence supports the relationship of Sib 1 and Sib 2 as first degree relatives such as full siblings. Pu and Linacre have shown at a likelihood ratio greater than or equal to 10 that STR test results correctly confirm sibship among known sibling pairs greater than 99% of the time. (Systematic evaluation of sensitivity and specificity of sibship determination by using 15 STR loci. Pu and Linacre. Journal of Forensic and Legal Medicine 15 (2008) 329–334.)
A797LN-5870	D12S391 is omitted from the Combined Kinship Index due to possible linkage to vWA, as per Department policy.
AJHPGX-5870	The LR values of 1,742,500,122.8944 is evidence that strongly supports the hypothesis that individuals C and D are full siblings. In the statistical analysis, the formulas reported by the Software DNA-View v29.52 were used. The African American population allele frequencies from the NIST STRBASE database provided in this assay were used.
CWW7U-5875	Combined full sibship index = 1742500123. Probability of full sibship = 99.99999994% (50% prior probability). General Information: *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.
D934LR-5875	The reported values are Kinship Index (KI) values calculated using KIn CALC 5.0.12 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 1/N. Due to possible genetic linkage between the vWA and D12S391 loci, the genotypes from only one of these loci were used in the combined KI calculation. Per our 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.
EGU2NK-5870	D12S391 not used in statistical calculation per lab protocol. Kinship Index truncated to two (2) significant figures per lab protocol.
FAREAP-5870	The genetic evidence provides a very strong support of the relationship of full siblings. Reference: Butler, J. 2010. Fundamentals of Forensic DNA Typing. Elsevier Inc.
HKGWYE-5870	Z0 = 0.25. Z1 = 0.5. Z2 = 0.25.

TABLE 8

WebCode-Test	Additional Statistical Results
KC2T6L-5875	The Hypothesis of Full sibling relationship is 1.7E+09 times more probable of the hypothesis of unrelated
NLWZCG-5875	*The likelihood ratios were calculated with the Kin CALc software that uses standard formulae for simple PI's and 2-person KI's that incorporate a theta value of 0.01 with allele probabilities with no rounding and a 1/k prior instead of just x/N. Combined kinship index omits the locus VWA due to linkage disequilibrium. ^ Only GlobalFiler loci used in calculation per TL, additional loci (PentaD, PentaE) not tested at our laboratory.
P9KE48-5870	The kinship index supports the hypothesis that C is the full sibling of D using the reference populations listed. The genotype observed for C is "X" times more likely to occur in a full sibling of D than in someone unrelated to D from the reference populations listed where "X" equals: African American – 1.7 Billion. Likelihood ratios for all loci were truncated to 4 significant digits before calculating the kinship index.
WB7A82-5870	AUTOSOMAL STRs: The DNA profile is single source. The kinship index supports the hypothesis that Profile C is the full sibling of Profile D using the reference populations listed. The genotype observed for Profile C is "X" times more likely to occur in a full sibling of Profile D than in someone unrelated to Profile D from the reference populations listed where "X" equals: African American – 82 MILLION, Caucasian – 13 BILLION, Hispanic – 27 BILLION.
X77HCA-5875	1. Note: 3.635E+07= 36,350,000 without reporting vWA and D5S818. This potential linkage disequilibrium may be observed within related individuals such as siblings. 2. Note that [Laboratory] does not report vWA due to potential linkage disequilibrium between D12S391 and vWA, and between CSF1PO and D5S818. WE designate this with NR. 3. If we reported VWA, the LR would be 6.886, IF we reported D5S818 the LR would be 6.957. The cumulative LR for sibship would be 1.742e+9=1,742,000,000. This is due to possible linkage disequilibrium Protocol BTF00219 states "11.9 KINSHIP TESTING - Interpretation of Results. 11.9.1 The following loci demonstrate linkage that does not impact the population level for unrelated individuals, and will not impact parentage statistics, but may impact scenarios of inclusion where kinship statistics will be calculated. As such, when results at both loci are obtained, only the more discriminating locus will be used in the following calculations. If results are obtained at only one locus listed, it shall be used in the statistic. 11.9.1.1 CSF1PO is more discriminating than D5S818. 11.9.1.2 D12S391 is more discriminating than vWA." added by [Initials] 4/13/22.
ZLXWP9-5875	vWA was excluded from the kinship index due to its linkage with D12S391.

Additional Comments

TABLE 9

WebCode-Test	Additional Comments
2PPKL7-5875	NR - No Results
38NZJB-5875	Because of 15 genotypes incompatible with paternity between Son (item 2) and Alleged Father A (Item 3) we did not produce PI calculations for this hypothesis. PI calculations are produced only when less than 3 exclusion loci are observed. Probability of Paternity is calculated with equal prior probabilities for both hypothesis ($p(H_0) = p(H_1) = 0.5$). H_0 : Mother (Item 1) and Alleged Father B (Item 4) are the biological parents of Son (Item 2). H_1 : Mother (Item 1) and an unknown man, unrelated to Alleged Father B and taken at random from the population, are the biological parents of Son (Item 2).
4LJ2B3-5870	NR = No Results. Fusion and Yfiler data are concordant at DYS391 for Item 2. Fusion and Yfiler data are concordant at DYS391 for Item 3. Fusion and Yfiler data are concordant at DYS391 for Item 4.
67M4NX-5875	Note: A possible null allele is present on DYS390 for Items 2 and 4 when amplified using the Yfiler amplification kit. The null allele was verified at this locus for the profile of Father B (Item 4) who cannot be excluded as being the biological father of the child (Item 2) based on the STR results.
6XBMGX-5875	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. Although the paternity index for all loci are shown only one of the vWA/D12S391 loci were used to calculate the combined KI, due to linkage between these loci. For this example D12S391 was omitted. The Individuals were reported to be Caucasian; therefore only values for Caucasian were reported.
8HCKTP-5870	Locus D12S391 not utilized for statistics due to possible linkage with vWA (as per SOPs)
8HPE9P-5870	CPI was calculated using vWA, but not D12S391, to account for the possibility that these loci could be in linkage disequilibrium for paternity samples.
8W82HN-5870	* Per agency policy, D12S391 not used for PI calculations due to linkage with vWA. * Per case information and agency policy, Caucasian PI values are reported here.
8WRKMV-5870	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) NM represents non-male profile. 8) ND represents allele not detected. 9) The statistical formula were derived from DNAView Statistical Software and calculated using Microsoft Excel.

TABLE 9

WebCode-Test	Additional Comments
8Z7HTW-5875	For the paternity statistics, the likelihood ratios entered were calculated using the Kin CALc software that uses standard formulae for simple PI's and 2-person KI's that incorporate a theta value of 0.01 with allele probabilities with no rounding and a 1/k prior instead of x/N. The combined PI (Caucasian) shown does not include D12. D12 was removed due to genetic linkage with vWA. This laboratory does not report probability of paternity so this value was not calculated.
9C2VNM-5875	Paternity Calculation: We do not calculate PI values if a person is excluded from being a father. The calculated combined PI value gets divided by 4 to account for linkage using the Globalfiler kit. We do not calculate Probability of Paternity. Item 2 (son) and item 4 (Alleged Father B) did not produce alleles at DYS390 and DYS518 which is most likely caused by a deletion. We have two levels of kinship analysis, paternities are calculated by every person signed off while sibling calculations require a higher level of training (which the submitting reporting officer does not have). Local Caucasian database used with a theta value of 0.01.
9CGAVW-5875	Primer binding site mutation at DYS390 in AF2 that was passed to C.
A2ZQCZ-5875	The putative designation for part 1 item 3 VWA is 17(18) but due to imbalance designated as 17,F. Not reprocessed as sufficient mis-matches exist to exclude father.
A797LN-5870	D12S391 is omitted from both combined kinship calculations, per Department policy. Reported Combined Kinship Indices are truncated to 2 significant figures, per Department policy. The reported Probability of Paternity value is truncated to 4 places past the decimal, per Department policy.
AJHPGX-5870	Our laboratory detected a null allele at the DYS390 marker on the PowerPlex Y23 System, in items 2 and 4. The DYS390 marker has a low deletion frequency (1 in 6300, NIST-STRBASE). Therefore, it is an event that strengthens the hypothesis that the item 4 is the biological father of the child marked as item 2. We consider convenient that the laboratories that report Y-STRs can use them to complement the statistical analysis.
AL24KX-5870	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 bloodstain specimen "Item 2" (given that the biological mother is represented by the source of bloodstain 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 calculated using Microsoft Excel. Remark: "ND" denotes no DNA alleles detected.

TABLE 9

WebCode-Test	Additional Comments
BBZX7Q-5870	<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. NM represents non-male profile. 8. ND represents the allele not detected. 9. The statistical formula was derived from DNAView Statistical Software and calculated using Microsoft Excel.</p>
BP2A2P-5875	<p>According to laboratory protocols, PI values are not calculated for individuals that are excluded as a potential biological parent at 3 or more loci. This laboratory does not include both vWA & D12 in kinship/parentage statistics due to potential for linkage. As a default, vWA is used in statistics unless it is not useful for discriminating the relationship of the tested individuals. According to laboratory protocols, statistics are calculated with the NIST database for the 3 population groups (Caucasian, African American & Hispanic) and the most common statistic is reported.</p>
CPVEVN-5875	<p>Alleged father A is excluded; therefore, no PI values were reported. Per laboratory procedures, D12S391 has not been used for statistical calculations.</p>
D934LR-5875	<p>For Part I [Tables 1-4: DNA & Paternity Index Results] - PI values at specific loci, Part II [Table 5: Paternity DNA Statistics & Conclusions] Item 2 - Combined PI value, and Part III [Tables 6-8] Kinship DNA Statistics: the reported values are Kinship Index (KI) values calculated using KIn Calc 5.0.12 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 1/N. Due to possible genetic linkage between the vWA and D12S391 loci, the genotypes from only one of these loci were used in the combined KI calculation. For Part II Item 4: our laboratory does not report Probabilities of Paternity.</p>
E2WR3Y-5875	<p>Y-STR analysis: Item 2 (Son) and Item 4 (Alleged Father) have an allele deletion in marker DYS390 [Laboratory], and therefore these boxes are not filled out. We did not fill out the Kinship DNA Statistics section which is not applicable in our laboratory.</p>
EGU2NK-5870	<p>Combined Paternity Index value truncated to two (2) significant figures per lab protocol. D12S391, DYS391, and Amelogenin loci are not used for statistical purposes per lab protocol.</p>

TABLE 9

WebCode-Test	Additional Comments
F7RZNK-5870	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) NM represents non male profile. 8) ND represents the allele not detected. 9) The statistical formula were derived from DNView Statistical Software and calculated using Microsoft Excel.
FAEAP-5870	- - : No genetic information. No genetic information was obtained in DYS390 and DYS518 markers of items 2 and 4 during Y chromosome analysis. Amplification of both samples with an additional kit must be performed in order to determine the presence of null alleles in those markers.
G2RCKJ-5875	Alleged father A excluded, therefore no PI values reported. Per laboratory procedures D12S391 has not been used for statistical calculations.
GPHE2P-5870	NR = No Results. PowerPlex Fusion and Yfiler was performed on Item 2, Item 3, and Item 4. Results at the DYS391 locus were concordant between these kits for each sample.
HA2ZXH-5875	1. According to laboratory protocols, PI values are not calculated for individuals that are excluded at three or more loci as an alleged parent. 2. The laboratory does not include both vWA and D12 in kinship/parentage statistics due to potential linkage. As a default, vWA is used in statistical calculations unless it is not useful for discriminating the relationship of the tested individuals. 3. According to laboratory protocols, statistics are calculated with the NIST database for the three population groups (Caucasian, African-American, Hispanic) and the most common statistic is reported.
HKGWYE-5870	ND = Not detected
HQ78DJ-5870	Any labeled peaks seen in samples that are likely due to PCR-STR artifacts were not reported. DYS391 is reported as INC for the PowerPlex Fusion System as per laboratory policy. Locus specific PI's only available for those loci used for comparison in DNView ver 27.23.
HXKBZC-5870	Lab does not utilize D12S391 locus for stats due to possible linkage to vWA. Statistics provided are for the Caucasian population.
JJ4FJF-5870	Part II [Table 5: Paternity DNA Statistics & Conclusions]: The Combined Paternity Index excluded D12S391 and was truncated to 2 significant figures, per Department policy. The Probability of Paternity was truncated at 4 places past the decimal, per Department policy. Part III [Tables 6-8: Kinship DNA Statistics]: The Combined Kinship Index excluded D12S391 and was truncated to 2 significant figures, per Department policy.

TABLE 9

WebCode-Test	Additional Comments
JPA9EB-5870	Paternity indices, combined paternity index and probability of paternity were reported using the Caucasian population values based on information provided in the test scenario. Genetic locus D12S391 was not used for paternity index calculations per laboratory's standard operating procedures. Paternity index calculations were not generated for item 3 due to exclusion as biological father.
KT4P4B-5875	It is our laboratory's policy to report the most conservative number when using multiple population databases. Additionally, vWA and D12S5391 are not included together in the same statistical calculation. The locus selected provides the most discriminating potential. The Combined Paternity Index value report in Part 2 [Table 5: Paternity DNA Statistics & Conclusions] is from the Southwest Hispanic database using the D12S5391 locus and excluding vWA. We do not report the Probability of Paternity.
MBX6EL-5870	1. Extraction: In-situ extraction method was used to extract DNA from Item 1 to Item 4. 2. Amplification: Amplification of STR (Short Tandem Repeat) Genetic Loci was carried out on Item 1 to Item 4 using the AmpFISTR Identifiler Direct PCR Amplification Kit on the 9700 GeneAmp PCR System. Amplification of Y-STR (Short Tandem Repeat) Genetic Loci was carried out on Item 2, Item 3 and Item 4 using the AmpFISTR Y-Filer PCR Amplification Kit on the 9700 GeneAmp PCR System. 3. Electrophoresis: Electrophoresis was carried out using Applied Biosystem 3500xL Genetic Analyzer with GeneMapper ID-X Software for Item 1 to Item 4 (Identifiler Direct). Electrophoresis for Y-Filer was carried out using Applied Biosystem 3500xL Genetic Analyzer with GeneMapper ID-X Software for Item 2, Item 3 and Item 4. 4. Reagent blank, positive control and negative control were carried out throughout the analysis and all gave the intended results. 5. 'ND' denotes no DNA allele detected.
MWEJWD-5875	Alleged father A excluded, therefore no PI values reported. Per laboratory procedures, D12S391 has not been used for statistical calculations.
N6MFEP-5870	For paternity testing, DNAnview software was used to calculate LR _s , which was reported as the Combined Paternity Index value. The probability of paternity is not a DNAnview output statistic. Individual locus PIs were not reported for Item 3 as DNAnview software was used as a screening method and excluded Item 3 as the father. Under the Item 4 tab, "N/A" was reported for vWA PI since it is linked with D12S391 for all calculations. Loci D6S1043, PentaE and PentaD were not used for kinship calculations.
NLWZCG-5875	Our laboratory does not calculate probability of paternity. The likelihood ratios were calculated with the Kin Calc software that uses standard formulae for simple PI's and 2-person KI's that incorporate a theta value of 0.01 with allele probabilities with no rounding and a 1/k prior instead of just x/N. Combined kinship index omits the locus D12S391 due to linkage disequilibrium.
PAFW79-5870	Parts I & II [Tables 1-5: DNA, Paternity Index Results & Conclusions] - D12S391 omitted from PI / CPI calculations, per laboratory policy. Part II [Table 5: Paternity DNA Statistics & Conclusions] - CPI truncated to 2 significant figures and Probability of Paternity truncated to four places past the decimal, per laboratory policy. Part III [Tables 6-8: Kinship DNA Statistics]- KI truncated to 2 significant figures and D12S391 omitted from combined KI, per laboratory policy.
PKWGQ6-5870	Reported Caucasian PI and Probability for Item 4. Per SOP, locus D12S391 is not included in calculations.
Q22BW6-5870	D12S391 is excluded from all final calculations as per laboratory policy. The final combined paternity index and final combined kinship index are truncated to 2 significant figures per laboratory policy. The probability of paternity is truncated at four places past the decimal point per laboratory policy.

TABLE 9

WebCode-Test	Additional Comments
Q3CARE-5870	Item 2 was tested in PowerPlex Fusion and Yfiler. Results were concordant at DYS391. Item 3 was tested in PowerPlex Fusion and Yfiler. Results were concordant at DYS391. Item 4 was tested in PowerPlex Fusion and Yfiler. Results were concordant at DYS391. NR = No Result.
QB3VXC-5870	Item 3: No PI provided due to exclusion. The Laboratory will exclude the alleged parent as a biological parent of the child when there are three or more markers with genetic inconsistencies. Likelihood ratio is not calculated when the alleged parent is excluded. Item 4: No PI provided for D12S391. The Laboratory does not include the locus D12S391 for kinship statistical calculation. PART III [Tables 6-8: Kinship DNA Statistics]: The Laboratory does not include the loci D12S391, PentaD and PentaE for kinship statistical calculation. The symbol " [^] " means "to the power of".
QQZPQ7-5870	Probability of paternity not calculated by our laboratory
RH3FY8-5870	Our laboratory does not calculate probability of paternity. Our laboratory leaves vWA out of the statistical calculation unless there is a mutation at vWA, in which case, D12 would be left out of the calculation.
V24UKH-5870	For paternity testing, DNAAview software was used to calculate LRs, which was reported as the Combined Paternity Index value. The probability of paternity is not a DNAAview output statistic. Individual locus PIs were not reported for Item 3 since DNAAview software was used as a screening method and excluded Item 3 as the father. Under the Item 4 tab, "N/A" was reported for vWA since it is linked with D12S391 for all calculations.
VAETFE-5870	Blood stain labeled with Item 4 is the biological father of the donor of Blood stain labeled with Item 2.
VWARH4-5870	Both the Known Child (Item 2) and Alleged Father B (Item 4) samples had missing information at DYS390 and DYS518 (run on Yfiler Plus). These are suspected deletions/null alleles and are not suspected to be drop-out. We use Popstats with the NIST allele frequencies.
WB7A82-5870	Kinship analysis: Our laboratory uses the FBI database for reporting kinship cases. Those are the statistics provided in the "3" box on page 8.
WG9FM4-5870	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) 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) NM – represents non-male profile. 8) ND - represents allele not detected. 9) The statistical formula were derived from DNAAview Statistical Software and calculated using Microsoft Excel.
XUTHH2-5875	Alleged Father A excluded, therefore no PI values reported. Per laboratory procedures, D12S391 has not been used for statistical calculations.

TABLE 9

WebCode-Test	Additional Comments
ZYZM88-5870	<p>Extraction: Item 1, Item 2, Item 3 and Item 4 were extracted using the Chelex extraction method. Quantification: Item 1, Item 2, Item 3 and Item 4 were quantified using the Quantifiler Human DNA Quantification Kit on the Applied Biosystems 7500 Real-Time PCR System. Amplification: Item 1, Item 2, Item 3 and Item 4 were amplified using AmpFLSTR Identifiler Direct PCR Amplification Kit on Applied Biosystems GeneAmp PCR System 9700. Item 1, Item 2, Item 3 and Item 4 were also amplified using AmpFLSTR Yfiler PCR Amplification Kit on Applied Biosystems GeneAmp PCR System 9700. Electrophoresis: Electrophoresis was carried out on Applied Biosystems 3500XL Genetic Analyzer and the data were analyzed with GeneMapper ID-X v1.5 software. Quality control: Reagent Blank, Positive Control and Negative Control were included throughout the analysis and all gave intended results. Statistical Evaluation: The statistical formulas were derived from the DNView Statistical Software and the paternity/ kinship index was calculated using Microsoft Office Excel. On comparison of the DNA profiles obtained, I found the following: a) The donor of bloodstained specimen "Item 4" to be the biological father to the donor of bloodstained specimen "Item 2". b) The donor of bloodstained specimen "Item 3" is excluded from being the biological father to the donor of bloodstained specimen "Item 2". (Given that the biological mother is represented by the donor of bloodstained specimen "Item 1"). Remark: 'ND' denotes no DNA allele detected.</p>

-End of Report-
(Appendix may follow)

Collaborative Testing Services ~ Forensic Testing Program

Test No. 22-5870: DNA Parentage

DATA MUST BE SUBMITTED BY **April 18, 2022, 11:59 p.m.** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A

WebCode: QVTP62

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 DPF1 - FTA Microcards):

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

Item 2: Blood Sample from Known Child (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: <http://www.cstl.nist.gov/strbase/NISTpop.htm#Autosomal>
 - a. On the NIST web site, access the population database by selecting the hyperlink labeled "Allele frequencies from autosomal STRs as Excel file" under the title "NIST 1036 U.S. Population Dataset".
3. If you are unable to use one of the suggested population databases, report the population database used in the blank provided next to the 'Other Pop. Database' option. Due to the tendency for allele frequencies to vary amongst different databases, no consensus value will be determined for this option. When reporting a population database name, please refrain from using terms that would allude to a laboratory specific name or location; general terms such as 'local/state database' or 'laboratory specific database' are preferred.
4. If you did not calculate paternity statistics, please provide an explanation in your additional comments.

1. Choose a Population Database:

FBI Popstats Pop. Database:

NIST STRBASE Pop. Database:

Other Pop. Database:

2. Record the Combined Paternity Index value:

3. Record the Probability of Paternity:

Part III: KINSHIP DNA STATISTICS

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

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

Example: Questioned Half Sibling Relationship

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

Scenario:

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

Locus	C	D	Allele Frequencies		Formula Used	Allele Legend	Likelihood Ratio
D1S1656	14,15	14,15	14: 0.2573	15: 0.1579	<input type="text"/>	<input type="text"/>	<input type="text"/>
D2S1338	16,17	16,22	16: 0.0556	17: 0.1009	<input type="text"/>	<input type="text"/>	<input type="text"/>
			22: 0.1374				
D2S441	12,14	11,12	11: 0.3626	12: 0.1652	<input type="text"/>	<input type="text"/>	<input type="text"/>
			14: 0.2675				
D3S1358	16,16	16,16	16: 0.3187		<input type="text"/>	<input type="text"/>	<input type="text"/>
D5S818	11,11	11,11	11: 0.2339		<input type="text"/>	<input type="text"/>	<input type="text"/>

Locus	C	D	Allele Frequencies		Formula Used	Allele Legend	Likelihood Ratio
D7S820	10,10	10,11	10: 0.3363	11: 0.2032	<input type="text"/>	<input type="text"/>	<input type="text"/>
							<input type="text"/>
D8S1179	12,14	12,14	12: 0.1301	14: 0.2939	<input type="text"/>	<input type="text"/>	<input type="text"/>
							<input type="text"/>
D10S1248	12,13	12,15	12: 0.1301	13: 0.2339	<input type="text"/>	<input type="text"/>	<input type="text"/>
			15:0.1974				<input type="text"/>
D12S391	16,18	18,20	16: 0.0673	18: 0.2529	<input type="text"/>	<input type="text"/>	<input type="text"/>
			20: 0.1038				<input type="text"/>
D13S317	11,12	12,12	11: 0.3099	12: 0.4181	<input type="text"/>	<input type="text"/>	<input type="text"/>
							<input type="text"/>
D16S539	11,11	11,11	11: 0.3143		<input type="text"/>	<input type="text"/>	<input type="text"/>
							<input type="text"/>
D18S51	12,20	12,21	12: 0.0760	20: 0.0629	<input type="text"/>	<input type="text"/>	<input type="text"/>
			21: 0.0102				<input type="text"/>
D19S433	11,14	11,13	11: 0.0629	13: 0.2456	<input type="text"/>	<input type="text"/>	<input type="text"/>
			14: 0.2105				<input type="text"/>
D21S11	29,30	29,30	29: 0.2047	30: 0.1696	<input type="text"/>	<input type="text"/>	<input type="text"/>
							<input type="text"/>
D22S1045	11,17	11,11	11: 0.1447	17: 0.2091	<input type="text"/>	<input type="text"/>	<input type="text"/>
							<input type="text"/>

Locus	C	D	Allele Frequencies		Formula Used	Allele Legend	Likelihood Ratio
CSF1PO	12,12	8,12	8: 0.0556	12: 0.2953	<input type="text"/>	<input type="text"/>	<input type="text"/>
							<input type="text"/>
FGA	24,26	24,26	24: 0.1330	26: 0.0702	<input type="text"/>	<input type="text"/>	<input type="text"/>
							<input type="text"/>
PentaD	9,10	9,13	9: 0.1681	10: 0.0994	<input type="text"/>	<input type="text"/>	<input type="text"/>
			13: 0.0833				<input type="text"/>
PentaE	14,14	14,14	14: 0.0687		<input type="text"/>	<input type="text"/>	<input type="text"/>
							<input type="text"/>
SE33	25.2,26.2	25.2,27.2	25.2: 0.0307	26.2: 0.0629	<input type="text"/>	<input type="text"/>	<input type="text"/>
			27.2: 0.0424				<input type="text"/>
TH01	8,9	8,9.3	8: 0.1959	9: 0.1594	<input type="text"/>	<input type="text"/>	<input type="text"/>
			9.3: 0.0965				<input type="text"/>
TPOX	6,11	9,10	6: 0.0894	9: 0.1950	<input type="text"/>	<input type="text"/>	<input type="text"/>
			10: 0.0865	11: 0.2155			<input type="text"/>
vWA	17,17	17,17	17: 0.2354		<input type="text"/>	<input type="text"/>	<input type="text"/>
							<input type="text"/>

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

2. Is the relationship of Full Siblings 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)