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FORENSIC TESTING PROGRAM

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DNA Parentage Test No. 25-5871/6
Summary Report

Each participant received a sample pack consisting of four blood samples representing a paternity case, which they were asked to analyze using their existing protocols. The test also included a paper kinship exercise where participants were asked to evaluate the provided DNA profiles and determine if a Caucasian Father/Daughter relationship claim was supported. Data were returned from 70 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 pack consisted of a collection of known blood samples from four individuals. Participants were asked to analyze these items using their existing protocols.

SAMPLE PREPARATION: All items were prepared from human whole blood which was drawn into EDTA tubes. Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried into separate envelopes.

SAMPLE PACK ASSEMBLY: One of each item was placed into a pre-labeled sample pack envelope and sealed. The sealed envelopes were then packaged in pre-labeled heat seal envelopes and sealed. Completed sample packs were stored at -20°C until shipment.

KINSHIP EXERCISE: The test also included a kinship exercise comparing autosomal DNA profiles from two related individuals, presented as a Caucasian father and daughter.

VERIFICATION: Predistribution results were consistent with each other and the manufacturer's preparation information. Consistent allelic results were reported for all STR and YSTR loci.

		Volumes per Substrate (µL)	
Item	**Donor Information**	**FTA™ Micro Cards (5871)**	**Swabs (5876)**
1	Caucasian Mother	75	100
2	Caucasian Daughter	75	100
3	Caucasian Biological Father	75	100
4	Caucasian Non-Biological Father	75	100

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	13,16.3	17,26	11,11	15,16	11,13	11,11
	10,10	10,13	12,16	18,19	11,12	11,11
	16,16	14,15	28,29	15,15	X,X	11,11
	23,25	13,13	13,19	16,32.2	7,7	8,9
	17,18	NM	NM	NM	NM	
2	15.3,16.3	17,23	11,14	16,16	11,11	11,11
	8,10	13,15	15,16	18,21	12,12	11,12
	16,17	14,15	29,29	15,16	X,X	11,12
	22,25	10,13	10,19	26.2,32.2	7,9.3	8,9
	17,19	NM	NM	NM	NM	
3	15.3,17.3	19,23	14,14	16,18	11,12	11,12
	8,11	13,15	15,15	21,22	11,12	11,12
	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22	10,13	10,17	25.2,26.2	9.3,9.3	8,8
	17,19	11	16	17	2	
4	16,16.3	17,25	10,13	15,18	9,11	12,14
	9,12	12,14	14,15	18,22	11,12	9,12
	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25	10,12	12,17	16,18	6,8	11,12
	14,15	10	17	19	2	

YSTR Results

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

Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
3	35,36	15	11,15	13	29	23	11	13	13
	15	12	11	19	30	15	17	11	22
	36	12	*	16	17	20	25	*	12
4	37,39	14	13,17	13	30	23	10	11	12
	15	9	11	20	28	15	18	10	21
	42	11	*	17	19	22	24	*	12

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

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

Paternity Indices

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

Item - Database	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D6S1043
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO
	FGA	Penta D	Penta E	SE33	TH01	TPOX
	vWA					
3PI - FBI Popstats						
	5.29-12.5	3.78-4.44	3.29-4.53	1.72-2.48	0.911-1.63	*
	3.02-3.09	3.42-5.67	4.73-6.52	2.7-5.1	1.59-1.65	1.05-2
	2.82-3.81	1.74-2.42	2.41-3.04	1.34-1.8	-	2.88-3.2
	2.52-2.76	*	*	7.22-18	1.91-5.05	1.35-1.68
	5.83-6.46					
3PI - Grand Mean ± 3STD Range**						
	2.19-15.4	2.51-6.26	2.13-5.75	1.63-2.48	0.93-1.84	0-4.61
	1.43-5	2.89-6.18	3.22-6.95	1.68-6.35	1.32-2.23	1.14-2.11
	1.9-5.17	1.2-2.78	1.84-3.2	0.886-2	-	1.79-3.86
	1.21-3.77	2.17-6.71	2.83-8.05	5.15-17.5	0-8.7	1.1-1.96
	1.59-9.29					
3PI - NIST-STRBASE						
	4.16-12.8	2.79-6.31	2.38-5.64	1.82-2.32	1.28-1.55	*
	2.01-4.63	3.14-6.07	2.92-6.83	2.11-5.52	1.67-2.01	1.35-1.87
	2.16-4.83	1.38-2.46	2.36-2.56	1.05-1.64	-	1.64-3.74
	1.46-3.27	3.62-4.96	3.45-7.8	6.23-16.1	1.07-4.79	1.05-1.95
	3.11-6.52					
4PI - Grand Mean ± 3STD Range**						
	0-3.74	0-2.5	0-0.00452	0-0.00386	0.909-1.98	*
	0-0.0048	0-0.0112	1.56-3.33	0-1.21	1.29-2.34	1.09-2.17
	0-0.0145	0.521-1.52	0-0.00651	0-1.02	-	1.08-1.83
	0-2.32	1.82-6.47	0-0.00104	0-0.0392	0-0.00552	0-0.00014
	0-0.001					

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

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

Summary Comments

This test was designed to allow participants to assess their proficiency in the analysis and interpretation of blood samples, along with the determination of paternity. Participants were supplied with four "known" bloodstains (Items 1 - 4). Item 1 was created from a female (mother) donor. Item 2 was created from a female (daughter) donor. Item 3 was created from a male donor who was the biological father of the Item 2 female, and Item 4 was created from a male donor who was not the biological father of the Item 2 female. Additionally, this test included an exercise where participants evaluated provided DNA profiles and reported both the kinship index and conclusions regarding an alleged relationship. For this test, the claim of a Caucasian Father/Daughter relationship was supported. Refer to the Manufacturer's Information for preparation details.

Data were returned from 70 participants.

DNA Analysis
For STR results, consistent results were achieved by all but eight participants who reported an inconsistent result for one or more items.

For YSTR results, consistent results were achieved by all participants.

Paternity DNA Statistics
All participants reported that the source of Item 3 could not be excluded as the biological father of Item 2. Of the participants that reported probability of paternity values, all reported 99% or higher.

Kinship DNA Statistics
Thirty-eight participants submitted responses to the paper kinship exercise regarding the claim of a Caucasian Father/Daughter relationship. For the loci likelihood ratio data, five participants reported extreme data in comparison to the calculated mode at one or more loci. A consensus was achieved, with all participants concluding that the relationship claim was supported.

STR Amplification Kit(s) & Results

TABLE 1

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

Item 1 - STR Results

2RVH2M-5871 PowerPlex® 21

	13,16.3	17,26		15,16	11,13	11
	10	10,13		18,19	11,12	11
1	16	14,15	28,29		X	11
	23,25	13	13,19		7	8,9
	17,18					

36GCQL-5871 PowerPlex® 6C

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25	13,13	13,19	16,32.2	7,7	8,9
	17,18					

4FXH62-5871 PowerPlex® Fusion 6C

	13,16.3	17,26	11,11	15,16	11,13	-
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25	13,13	13,19	16,32.2	7,7	8,9
	17,18	-	-	-	-	

6XAPRH-5876 GlobalFiler™

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25			16,32.2	7,7	8,9
	17,18	NR			NR	

7D4EME-5876 GlobalFiler™ Express

	13,16.3	17,26	11	15,16	11,13	NT
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25	NT	NT	16,32.2	7	8,9
	17,18	NR	NT	NT	NR	

7EUFQG-5871 Investigator® 24plex GO

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25			16,32.2	7,7	8,9
	17,18					

TABLE 1

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

Item 1 - STR Results

7UM6LD-5871 GlobalFiler™

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25			16,32.2	7	8,9
	17,18					

8CQN6U-5871 GlobalFiler™ (FORESTATISTICS)

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25			16,32.2	7	8,9
	17,18					

8LPY6H-5871 GlobalFiler™

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25			16,32.2	7,7	8,9
	17,18					

8U7X7V-5871 PowerPlex® FUSION, ESX17, CS7, GlobalFiler™, VeriFiler Plus (Familias)

	13,16.3	17,26	11,11	15,16	11,13	11,11
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25	13,13	13,19	16,32.2	7,7	8,9
	17,18					

8YC4DE-5876 GlobalFiler™

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25			16,32.2	7	8,9
	17,18					

98NKKE-5876 Investigator® 24plex (Popstats)

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25			16,32.2	7	8,9
	17,18					

TABLE 1

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

Item 1 - STR Results

9XDHYD-5871 Investigator® 24plex QS

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25			16,32.2	7,7	8,9
	17,18					

9YBQ8W-5876 Identifiler® Plus, NGM SElect

	13,16.3	17,26	11,14.3	15,16	11,13	
	10,10	10,13	12,16		11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25			16,32.2	7,7	8,9
	17,18					

AXT3LW-5871 FlexPlex

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25		13		7	8,9
	17,18					

B3KQE9-5871 GlobalFiler™

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25			16,32.2	7,7	8,9
	17,18					

BC8P7D-5876 Verifiler Plus (GeneMapper ID-X 1.5)

	13,16.3	17,26	11,11	15,16	11,13	11,11
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25	13,13	13,19		7,7	8,9
	17,18					

BPHZZV-5871 Flex Plex (ANDE FAIRS Claimed Relationships)

	13,16.3	17,26	11	15,16	11,13	11
	10	10,13	12,16	18,19	11,12	11
1	16		28,29	15	X	11
					7	9
	17,18					

TABLE 1

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

Item 1 - STR Results

BU9CWC-5871 GlobalFiler™

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25			16,32.2	7	8,9
	17,18					

C6QDRD-5871 PowerPlex® 6C

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25	13,13	13,19	16,32.2	7,7	8,9
	17,18					

D33JYP-5871 GlobalFiler™ (FORESTATISTICS)

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X	11,11
	23,25			16,32.2	7,7	8,9
	17,18					

D4PXV7-5871 PowerPlex® 21

	13,16.3	17,26		15,16	11,13	11,11
	10,10	10,13		18,19	11,12	11,11
1	16,16	14,15	28,29		X,X	11,11
	23,25	13,13	13,19		7,7	8,9
	17,18					

DHADX7-5871 GlobalFiler™

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25			16,32.2	7	8,9
	17,18					

DLANU6-5876 PowerPlex® Fusion (DNAView)

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25	13	13,19		7	8,9
	17,18					

TABLE 1

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

Item 1 - STR Results

DNV9YA-5876 GlobalFiler™

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25			16,32.2	7	8,9
	17,18					

DRA76B-5871 GlobalFiler™

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25			16,32.2	7	8,9
	17,18					

EFZPZR-5871 PowerPlex® Fusion

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25	13	13,19		7	8,9
	17,18					

ENT3X7-5871 PowerPlex® Fusion 6C

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25	13,13	13,19	16,32.2	7,7	8,9
	17,18					

EP46J6-5871 GlobalFiler™

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25			16,32.2	7,7	8,9
	17,18					

EPNLY8-5876 PowerPlex® F6C

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25	13	13,19	16,32.2	7	8,9
	17,18					

TABLE 1

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

Item 1 - STR Results

G9CL49-5876 GlobalFiler™

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25			16,32.2	7	8,9
	17,18					

GGKJM7-5876 PowerPlex® ESI 16 Fast

	13,16.3	17,26	11,11	15,16	11,11	
	Not included	10,13	12,16	18,19	18,19	11,11
1	16,16	14,15	28,29	15,15	X,X	Not included
	23,25	Not included	Not included		7,7	Not included
	17,18	18,19	Not included	13,16.3	Not included	

GK69CP-5871 PowerPlex® Fusion

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25	13	13,19		7	8,9
	17,18	NR				

GN4LV9-5871 PowerPlex® Fusion 6C

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25	13,13	13,19	16,32.2	7,7	8,9
	17,18	-	-	-		

GPLX4L-5871 GlobalFiler™ (FORESTATISTICS)

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X	11,11
	23,25			16,32.2	7,7	8,9
	17,18					

HM39M7-5876 GlobalFiler™ Express

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25			16,32.2	7,7	8,9
	17,18					

TABLE 1

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

Item 1 - STR Results

HWTUT4-5876 PowerPlex® Fusion 6C

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25	13	13,19	16,32.2	7	8,9
	17,18					

J3XQC4-5876 GlobalFiler™

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25			16,32.2	7	8,9
	17,18					

KVVZ96-5876 PowerPlex® Fusion 5C, Verifiler Plus (Familias, version 3.4)

	13,16.3	17,26	11,11	15,16	11,13	11,11
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25	13,13	13,19		7,7	8,9
	17,18					

LFEM7X-5871 PowerPlex® 21

	13,16.3	17,26		15,16	11,13	11,11
	10,10	10,13		18,19	11,12	11,11
1	16,16	14,15	28,29		X,X	11,11
	23,25	13,13	13,19		7,7	8,9
	17,18					

LH27B2-5876 GlobalFiler™

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25			16,32.2	7,7	8,9
	17,18	No Result			No Result	

LZH6HK-5871 GlobalFiler™

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25			16,32.2	7,7	8,9
	17,18					

TABLE 1

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

Item 1 - STR Results

NFXEQF-5871 GlobalFiler™ (FORESTATISTICS)

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X	11,11
	23,25			16,32.2	7,7	8,9
	17,18					

NN844D-5871 GlobalFiler™ Direct (Genética Forense Final versión 2.9.46 beta)

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25			16,32.2	7,7	8,9
	17,18					

NWCL7W-5871 GlobalFiler™

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25			16,32.2	7	8,9
	17,18					

P8RXXZ-5876 GlobalFiler™ Express

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25			16,32.2	7,7	8,9
	17,18					

PEQH2F-5871 GlobalFiler™ Express

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25			16,32.2	7,7	8,9
	17,18					

PZ73XG-5876 GlobalFiler™

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25			16,32.2	7,7	8,9
	17,18	NR			NR	

TABLE 1

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

Item 1 - STR Results

Q3R9TX-5876 GlobalFiler™ Express (Popstats)

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25	-	-	16,32.2	7,7	8,9
	17,18	-	-	-	-	

QDTATW-5876 Investigator® 24plex

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25			16,32.2	7	8,9
	17,18					

QHQTXF-5871 PowerPlex® 5C

	13,16.3	17,26	11	15,16	11,13	--
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25	13	13,19	--	7	8,9
	17,18	--	--	--	--	

R6AKAE-5871 VersaPlex 27PY System (Familias)

	13,16.3	17,16	11,11	15,16	11,13	11,11
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25	13,13	13,19		7,7	8,9
	17,18					

R6XQUE-5871 GlobalFiler™ IQC (GenoProof Software)

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25			16,32.2	7,7	8,9
	17,18					

RKL2EV-5876 PowerPlex® Fusion (KIn CALc 5.0 11.2 BETA)

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25	13	13,19		7	8,9
	17,18	-				

TABLE 1

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

Item 1 - STR Results

RLJAMF-5871 PowerPlex® Fusion (Gen Analysen)

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29		X	11
	23,25	13	13,19		7	8,9
	17,18					

RY6NNT-5871 GlobalFiler™

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25			16,32.2	7	8,9
	17,18					

T33MEC-5876 GlobalFiler™, VeriFiler Plus (eDNA)

	13,16.3	17,26	11	15,16	11,13	11
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25	13	13,19	16,32.2	7	8,9
	17,18					

U6KALP-5876 GlobalFiler™

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25			16,32.2	7	8,9
	17,18	-			-	

V3E7AU-5871 GlobalFiler™ (Biostat08 v. 2.04, Familias 3.4)

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25			16,32.2	7,7	8,9
	17,18					

VJYW9T-5871 GlobalFiler™ Express

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25			16,32.2	7,7	8,9
	17,18					

TABLE 1

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

Item 1 - STR Results

WDD28P-5871 GlobalFiler™

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25			16,32.2	7	8,9
	17,18					

WGCC3P-5871 GlobalFiler™

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25			16,32.2	7	8,9
	17,18					

WL4MDM-5876 Investigator® 24plex (GeneMarker v2.9.5, Familias v3)

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25			16,32.2	7	8,9
	17,18					

X4JDPR-5876 GlobalFiler™ Express

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25			16,32.2	7,7	8,9
	17,18					

XD873A-5871 GlobalFiler™ EXPRESS (DNAVIEW 37.35)

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25			16,32.2	7,7	8,9
	17,18					

XDAXUP-5876 GlobalFiler™, MiniFiler

	13,16.3	17,26	11,11	15,16	11,13	
	10,10	10,13	12,16	18,19	11,12	11,11
1	16,16	14,15	28,29	15,15	X,X	11,11
	23,25			16,32.2	7,7	8,9
	17,18	No Results			No Results	

TABLE 1

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

Item 1 - STR Results

YCVQ99-5871 VerifilerPlus (Applied Biosystems, ThermoFisher Cloud, Microsatellite Analysis CE Fragment Sizing)

	13,16.3	17,26	11	15,16	11,13	11
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25	13	13,19	-	7	8,9
	17,18	-	-	-	-	

YQR9WL-5876 GlobalFiler™ (Popstats)

	13,16.3	17,26	11	15,16	11,13	
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25			16,32.2	7	8,9
	17,18					

ZCM7WP-5876 Identifiler®

		17,26		15,16	11,13	
	10,10	10,13			11,12	11,11
1	16,16	14,15	28,29		X,X	11,11
	23,25				7,7	8,9
	17,18					

ZGG7BK-5876 GlobalFiler™ Express

	13,16.3	17,26	11	15,16	11,13	NT
	10	10,13	12,16	18,19	11,12	11
1	16	14,15	28,29	15	X	11
	23,25	NT	NT	16,32.2	7	8,9
	17,18	NR	NT	NT	NR	

TABLE 1

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

Item 2 - STR Results

2RVH2M-5871 PowerPlex® 21

	15.3,16.3	17,23		16	11	11
	8,10	13,15		18,21	12	11,12
2	16,17	14,15	29		X	11,12
	22,25	10,13	10,19		7,9.3	8,9
	17,19					

36GCQL-5871 PowerPlex® 6C

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25	10,13	10,19	26.2,32.2	7,9.3	8,9
	17,19					

4FXH62-5871 PowerPlex® Fusion 6C

	15.3,16.3	17,23	11,14	16,16	11,11	-
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25	10,13	10,19	26.2,32.2	7,9.3	8,9
	17,19	-	-	-	-	

6XAPRH-5876 GlobalFiler™

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19	NR			NR	

7D4EME-5876 GlobalFiler™ Express

	15.3,16.3	17,23	11,14	16	11	NT
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25	NT	NT	26.2,32.2	7,9.3	8,9
	17,19	NR	NT	NT	NR	

7EUFQG-5871 Investigator® 24plex GO

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

TABLE 1

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

Item 2 - STR Results

7UM6LD-5871 GlobalFiler™

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

8CQN6U-5871 GlobalFiler™ (FORESTATISTICS)

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

8LPY6H-5871 GlobalFiler™

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

8U7X7V-5871 PowerPlex® FUSION, ESX17, CS7, GlobalFiler™, VeriFiler Plus (Familias)

	15.3,16.3	17,23	11,14	16,16	11,11	11,11
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25	10,13	10,19	26.2,32.2	7,9.3	8,9
	17,19					

8YC4DE-5876 GlobalFiler™

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

98NKKE-5876 Investigator® 24plex (Popstats)

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

TABLE 1

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

Item 2 - STR Results

9XDHYD-5871 Investigator® 24plex QS

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

9YBQ8W-5876 Identifiler® Plus, NGM SElect

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16		12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

AXT3LW-5871 FlexPlex

		17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25				7,9.3	8,9
	17,19					

B3KQE9-5871 GlobalFiler™

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

BC8P7D-5876 Verifiler Plus (GeneMapper ID-X 1.5)

	15.3,16.3	17,23	11,14	16,16	11,11	11,11
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25	10,13	10,19		7,9.3	8,9
	17,19					

BPHZZV-5871 FlexPlex (ANDE FAIRS Claimed Relationships)

		17,23	11,14	16	11	11
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

TABLE 1

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

Item 2 - STR Results

BU9CWC-5871 GlobalFiler™

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

C6QDRD-5871 PowerPlex® 6C

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25	10,13	10,19	26.2,32.2	7,9.3	8,9
	17,19					

D33JYP-5871 GlobalFiler™ (FORESTATISTICS)

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

D4PXV7-5871 PowerPlex® 21

	15.3,16.3	17,23		16,16	11,11	11,11
	8,10	13,15		18,21	12,12	11,12
2	16,17	14,15	29,29		X,X	11,12
	22,25	10,13	10,19		7,9.3	8,9
	17,19					

DHADX7-5871 GlobalFiler™

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

DLANU6-5876 PowerPlex® Fusion (DNAView)

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25	10,13	10,19		7,9.3	8,9
	17,19					

TABLE 1

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

Item 2 - STR Results

DNV9YA-5876 GlobalFiler™

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

DRA76B-5871 GlobalFiler™

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

EFZPZR-5871 PowerPlex® Fusion

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25	10,13	10,19		7,9.3	8,9
	17,19					

ENT3X7-5871 PowerPlex® Fusion 6C

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25	10,13	10,19	26.2,32.2	7,9.3	8,9
	17,19					

EP46J6-5871 GlobalFiler™

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

EPNLY8-5876 PowerPlex® F6C

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25	10,13	10,19	26.2,32.2	7,9.3	8,9
	17,19					

TABLE 1

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

Item 2 - STR Results

G9CL49-5876 GlobalFiler™

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

GGKJM7-5876 PowerPlex® ESI 16 Fast

	15.3,16.3	17,23	11,14	16,16	11,14	
	Not included	13,15	15,16	18,21	18,21	11,12
2	16,17	14,15	29,29	15,16	X,X	Not included
	22,25	Not included	Not included		7,9.3	Not included
	17,19	18,21	Not included	15.3,16.3	Not included	

GK69CP-5871 PowerPlex® Fusion, MiniFiler

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25	10,13	10,19		7,9.3	8,9
	17,19	NR				

GN4LV9-5871 PowerPlex® Fusion 6C

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25	10,13	10,19	26.2,32.2	7,9.3	8,9
	17,19	-	-	-		

GPLX4L-5871 GlobalFiler™ (FORESTATISTICS)

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

HM39M7-5876 GlobalFiler™ Express

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

TABLE 1

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

Item 2 - STR Results

HWTUT4-5876 PowerPlex® Fusion 6C

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25	10,13	10,19	26.2,32.2	7,9.3	8,9
	17,19					

J3XQC4-5876 GlobalFiler™

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

KVVZ96-5876 PowerPlex® Fusion 5C, Verifiler Plus (Familias, version 3.4)

	15.3,16.3	17,23	11,14	16,16	11,11	11,11
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25	10,13	10,19		7,9.3	8,9
	17,19					

LFEM7X-5871 PowerPlex® 21

	15.3,16.3	17,23		16,16	11,11	11,11
	8,10	13,15		18,21	12,12	11,12
2	16,17	14,15	29,29		X,X	11,12
	22,25	10,13	10,19		7,9.3	8,9
	17,19					

LH27B2-5876 GlobalFiler™

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19	No result			No result	

LZH6HK-5871 GlobalFiler™

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

TABLE 1

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

Item 2 - STR Results

NFXEQF-5871 GlobalFiler™ (FORESTATISTICS)

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

NN844D-5871 GlobalFiler™ Direct (Genética Forense Final versión 2.9.46 beta)

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

NWCL7W-5871 GlobalFiler™

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

P8RXXZ-5876 GlobalFiler™ Express

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

PEQH2F-5871 GlobalFiler™ Express

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

PZ73XG-5876 GlobalFiler™

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19	NR			NR	

TABLE 1

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

Item 2 - STR Results

Q3R9TX-5876 GlobalFiler™ Express (Popstats)

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25	-	-	26.2,32.2	7,9.3	8,9
	17,19	-	-	-	-	

QDTATW-5876 Investigator® 24plex

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

QHQTXF-5871 PowerPlex® 5C

	15.3,16.3	17,23	11,14	16	11	--
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25	10,13	10,19	--	7,9.3	8,9
	17,19	--	--	--	--	

R6AKAE-5871 VersaPlex 27PY System (Familias)

	15.3,16.3	17,23	11,14	16,16	11,11	11,11
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25	10,13	10,19		7,9.3	8,9
	17,19					

R6XQUE-5871 GlobalFiler™ IQC (GenoProof Software)

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

RKL2EV-5876 PowerPlex® Fusion (KIn CALc 5.0 11.2 BETA)

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25	10,13	10,19		7,9.3	8,9
	17,19	-				

TABLE 1

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

Item 2 - STR Results

RLJAMF-5871 PowerPlex® Fusion (Gen Analysen)

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29		X	11,12
	22,25	10,13	10,19		7,9.3	8,9
	17,19					

RY6NNT-5871 GlobalFiler™

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

T33MEC-5876 GlobalFiler™, VeriFiler Plus (eDNA)

	15.3,16.3	17,23	11,14	16	11	11
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25	10,13	10,19	26.2,32.2	7,9.3	8,9
	17,19					

U6KALP-5876 GlobalFiler™

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19	-			-	

V3E7AU-5871 GlobalFiler™ (Biostat08 v. 2.04, Familias 3.4)

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

VJYW9T-5871 GlobalFiler™ Express

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

TABLE 1

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

Item 2 - STR Results

WDD28P-5871 GlobalFiler™

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

WGCC3P-5871 GlobalFiler™

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

WL4MDM-5876 Investigator® 24plex (GeneMarker v2.9.5, Familias v3)

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

X4JDPR-5876 GlobalFiler™ Express

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

XD873A-5871 GlobalFiler™ EXPRESS (DNAVIEW 37.35)

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

XDAXUP-5876 GlobalFiler™, MiniFiler

	15.3,16.3	17,23	11,14	16,16	11,11	
	8,10	13,15	15,16	18,21	12,12	11,12
2	16,17	14,15	29,29	15,16	X,X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19	No Results			No Results	

TABLE 1

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

Item 2 - STR Results

YCVQ99-5871 VerifilerPlus (Applied Biosystems, ThermoFisher Cloud, Microsatellite Analysis CE Fragment Sizing)

	15.3,16.3	17,23	11,14	16	11	11
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25	10,13	10,19	-	7,9.3	8,9
	17,19	-	-	-	-	

YQR9WL-5876 GlobalFiler™ (Popstats)

	15.3,16.3	17,23	11,14	16	11	
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25			26.2,32.2	7,9.3	8,9
	17,19					

ZCM7WP-5876 Identifiler®

		17,23		16,16	11,11	
	8,10	13,15			12,12	11,12
2	16,17	14,15	29,29		X,X	11,12
	22,25				7,9.3	8,9
	17,19					

ZGG7BK-5876 GlobalFiler™ Express

	15.3,16.3	17,23	11,14	16	11	NT
	8,10	13,15	15,16	18,21	12	11,12
2	16,17	14,15	29	15,16	X	11,12
	22,25	NT	NT	26.2,32.2	7,9.3	8,9
	17,19	NR	NT	NT	NR	

TABLE 1

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

Item 3 - STR Results

2RVH2M-5871 PowerPlex® 21

	15.3,17.3	19,23		16,18	11,12	11,12
	8,11	13,15		21,22	11,12	11,12
3	15,17	14	29,32.2		X,Y	12
	21,22	10,13	10,17		9.3	8
	17,19					

36GCQL-5871 PowerPlex® 6C

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22	10,13	10,17	25.2,26.2	9.3,9.3	8,8
	17,19	11	16	17		

4FXH62-5871 PowerPlex® Fusion 6C

	15.3,17.3	19,23	14,14	16,18	11,12	-
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22	10,13	10,17	25.2,26.2	9.3,9.3	8,8
	17,19	11	16	17	-	

6XAPRH-5876 GlobalFiler™

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11			2	

7D4EME-5876 GlobalFiler™ Express

	15.3,17.3	19,23	14	16,18	11,12	NT
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22	NT	NT	25.2,26.2	9.3	8
	17,19	11	NT	NT	2	

7EUFQG-5871 Investigator® 24plex GO

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11				

TABLE 1

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

Item 3 - STR Results

7UM6LD-5871 GlobalFiler™ (Popstats)

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22			25.2,26.2	9.3	8
	17,19	11			2	

8CQN6U-5871 GlobalFiler™ (FORESTATISTICS)

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22			25.2,26.2	9.3	8
	17,19	11			2	

8LPY6H-5871 GlobalFiler™ (DBLR)

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11			2	

8U7X7V-5871 PowerPlex® FUSION, ESX17, CS7, GlobalFiler™, VeriFiler Plus (Familias)

	15.3,17.3	19,23	14,14	16,18	11,12	11,12
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22	10,13	10,17	25.2,26.2	9.3,9.3	8,8
	17,19	11			2	

8YC4DE-5876 GlobalFiler™

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22			25.2,26.2	9.3	8
	17,19	11			2	

98NKKE-5876 Investigator® 24plex (Popstats)

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22			25.2,26.2	9.3	8
	17,19	11				

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	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

9XDHYD-5871 Investigator® 24plex QS

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11				

9YBQ8W-5876 Identifiler® Plus

		19,23		16,18	11,12	
	8,11	13,15			11,12	11,12
3	15,17	14,14	29,32.2		X,Y	12,12
	21,22				9.3,9.3	8,8
	17,19					

AXT3LW-5871 FlexPlex

		19,23	14	16,18	11,12	
	8,11		15	21,22	12	11,12
3		14	29,32.2	15,16	X,Y	12
			10	25.2	9.3	8
		11	16	17		

B3KQE9-5871 GlobalFiler™ (Popstats)

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11			2	

BC8P7D-5876 Verifiler Plus (GeneMapper ID-X 1.5)

	15.3,17.3	19,23	14,14	16,18	11,12	11,12
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22	10,13	10,17		9.3,9.3	8,8
	17,19				2	

BPHZZV-5871 FlexPlex (ANDE FAIRS Claimed Relationships)

	15.3,17.3	19,23	14	16,18	11,12	11,12
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22		10,17	25.2,26.2	9.3	8
	17,19	11	16	17		

TABLE 1

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

Item 3 - STR Results

BU9CWC-5871 GlobalFiler™

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22			25.2,26.2	9.3	8
	17,19	11			2	

C6QDRD-5871 PowerPlex® 6C (eDNA)

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22	10,13	10,17	25.5,26.2	9.3,9.3	8,8
	17,19	11	16	17		

D33JYP-5871 GlobalFiler™ (FORESTATISTICS)

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11			2	

D4PXV7-5871 PowerPlex® 21

	15.3,17.3	19,23		16,18	11,12	11,12
	8,11	13,15		21,22	11,12	11,12
3	15,17	14,14	29,32.2		X,Y	12,12
	21,22	10,13	10,17		9.3,9.3	8,8
	17,19					

DHADX7-5871 GlobalFiler™

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22			25.2,26.2	9.3	8
	17,19	11			2	

DLANU6-5876 PowerPlex® Fusion (DNAView)

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22	10,13	10,17		9.3	8
	17,19	11				

TABLE 1

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

Item 3 - STR Results

DNV9YA-5876 GlobalFiler™ (Popstats)

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22			25.2,26.2	9.3	8
	17,19	11			2	

DRA76B-5871 GlobalFiler™

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22			25.2,26.2	9.3	8
	17,19	11			2	

EFZPZR-5871 PowerPlex® Fusion

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22	10,13	10,17		9.3	8
	17,19	11				

ENT3X7-5871 PowerPlex® Fusion 6C

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22	10,13	10,17	25.2,26.2	9.3,9.3	8,8
	17,19	11	16	17		

EP46J6-5871 GlobalFiler™

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11			2	

EPNLY8-5876 PowerPlex® F6C

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22	10,13	10,17	25.2,26.2	9.3	8
	17,19	11	16	17		

TABLE 1

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

Item 3 - STR Results

G9CL49-5876 GlobalFiler™

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22			25.2,26.2	9.3	8
	17,19	11			2	

GGKJM7-5876 PowerPlex® ESI 16 Fast

	15.3,17.3	19,23	14,14	16,18	14,14	
	Not included	13,15	15,15	21,22	21,22	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	Not included
	21,22	Not included	Not included		9.3,9.3	Not included
	17,19	21,22	Not included	15.3,17.3	Not included	

GK69CP-5871 PowerPlex® Fusion

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22	10,13	10,17		9.3	8
	17,19	11				

GN4LV9-5871 PowerPlex® Fusion 6C

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22	10,13	10,17	25.2,26.2	9.3,9.3	8,8
	17,19	11	16	17		

GPLX4L-5871 GlobalFiler™ (Forestatistics)

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11			2	

HM39M7-5876 GlobalFiler™ Express

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11			2	

TABLE 1

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

Item 3 - STR Results

HWTUT4-5876 PowerPlex® Fusion 6C

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22	10,13	10,17	25.2,26.2	9.3	8
	17,19	11	16	17		

J3XQC4-5876 GlobalFiler™

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22			25.2,26.2	9.3	8
	17,19	11			2	

KVVZ96-5876 PowerPlex® Fusion 5C, Verifiler Plus (Familias, version 3.4)

	15.3,17.3	19,23	14,14	16,18	11,12	11,12
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22	10,13	10,17		9.3,9.3	8,8
	17,19	11			2	

LFEM7X-5871 PowerPlex® 21

	15.3,17.3	19,23		16,18	11,12	11,12
	8,11	13,15		21,22	11,12	11,12
3	15,17	14,14	29,32.2		X,Y	12,12
	21,22	10,13	10,17		9.3,9.3	8,8
	17,19					

LH27B2-5876 GlobalFiler™

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11			2	

LZH6HK-5871 GlobalFiler™

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11			2	

TABLE 1

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

Item 3 - STR Results

NFXEQF-5871 GlobalFiler™ (FORESTATISTICS)

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11			2	

NN844D-5871 GlobalFiler™ Direct (Genética Forense Final versión 2.9.46 beta)

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11			2	

NWCL7W-5871 GlobalFiler™

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22			25.2,26.2	9.3	8
	17,19	11			2	

P8RXXZ-5876 GlobalFiler™ Express

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11			2	

PEQH2F-5871 GlobalFiler™ Express

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11			2	

PZ73XG-5876 GlobalFiler™

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11			2	

TABLE 1

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

Item 3 - STR Results

Q3R9TX-5876 GlobalFiler™ Express (Popstats)

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22	-	-	25.2,26.2	9.3,9.3	8,8
	17,19	11	-	-	2	

QDTATW-5876 Investigator® 24plex (Popstats)

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22			25.2,26.2	9.3	8
	17,19	11				

QHQTXF-5871 PowerPlex® 5C

	15.3,17.3	19,23	14	16,18	11,12	--
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22	10,13	10,17	--	9.3	8
	17,19	11	--	--	--	

R6AKAE-5871 VersaPlex 27PY System (Familias)

	15.3,17.3	19,23	14,14	16,18	11,12	11,12
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22	10,13	10,17		9.3,9.3	8,8
	17,19	11	16	17		

R6XQUE-5871 GlobalFiler™ IQC (GenoProof Software)

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11			2	

RKL2EV-5876 PowerPlex® Fusion (KIn CALc 5.0 11.2 BETA)

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22	10,13	10,17		9.3	8
	17,19	11				

TABLE 1

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

Item 3 - STR Results

RLJAMF-5871 PowerPlex® Fusion (Gen Analysen)

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2		X,Y	12
	21,22	10,13	10,17		9.3	8
	17,19	11				

RY6NNT-5871 GlobalFiler™

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22			25.2,26.2	9.3	8
	17,19	11			2	

T33MEC-5876 GlobalFiler™, VeriFiler Plus (eDNA)

	15.3,17.3	19,23	14	16,18	11,12	11,12
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22	10,13	10,17	25.2,26.2	9.3	8
	17,19	11			2	

U6KALP-5876 GlobalFiler™

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22			25.2,26.2	9.3	8
	17,19	11			2	

V3E7AU-5871 GlobalFiler™ (Biostat08 v. 2.04, Familias 3.4)

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11			2	

VJYW9T-5871 GlobalFiler™ Express

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11			2	

TABLE 1

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

Item 3 - STR Results

WDD28P-5871 GlobalFiler™

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22			25.2,26.2	9.3	8
	17,19	11			2	

WGCC3P-5871 GlobalFiler™

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22			25.2,26.2	9.3	8
	17,19	11			2	

WL4MDM-5876 Investigator® 24plex (GeneMarker v2.9.5, Familias v3)

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22			25.2,26.2	9.3	8
	17,19	11				

X4JDPR-5876 GlobalFiler™ Express

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11			2	

XD873A-5871 GlobalFiler™ EXPRESS (DNAVIEW 37.35)

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11			2	

XDAXUP-5876 GlobalFiler™, MiniFiler

	15.3,17.3	19,23	14,14	16,18	11,12	
	8,11	13,15	15,15	21,22	11,12	11,12
3	15,17	14,14	29,32.2	15,16	X,Y	12,12
	21,22			25.2,26.2	9.3,9.3	8,8
	17,19	11			2	

TABLE 1

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

Item 3 - STR Results

YCVQ99-5871 VerifilerPlus (Applied Biosystems, ThermoFisher Cloud, Microsatellite Analysis CE Fragment Sizing)

	15.3,17.3	19,23	14	16,18	11,12	11,12
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22	10,13	10,17	-	9.3	8
	17,19	-	-	-	2	

YQR9WL-5876 GlobalFiler™ (Popstats)

	15.3,17.3	19,23	14	16,18	11,12	
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22			25.2,26.2	9.3	8
	17,19	11			2	

ZCM7WP-5876 Identifiler®

		19,23		16,18	11,12	
	8,11	13,15			11,12	11,12
3	15,17	14,14	29,32.2		X,Y	12,12
	22,22				9.3,9.3	8,8
	17,19					

ZGG7BK-5876 GlobalFiler™ Express

	15.3,17.3	19,23	14	16,18	11,12	NT
	8,11	13,15	15	21,22	11,12	11,12
3	15,17	14	29,32.2	15,16	X,Y	12
	21,22	NT	NT	25.2,26.2	9.3	8
	17,19	11	NT	NT	2	

TABLE 1

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

Item 4 - STR Results

2RVH2M-5871 PowerPlex® 21

	16,16.3	17,25		15,18	9,11	12,14
	9,12	12,14		18,22	11,12	9,12
4	15	13,14	30		X,Y	11,12
	20,25	10,12	12,17		6,8	11,12
	14,15					

36GCQL-5871 PowerPlex® 6C

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25	10,12	12,17	16,18	6,8	11,12
	14,15	10	17	19		

4FXH62-5871 PowerPlex® Fusion 6C

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25	10,12	12,17	16,18	6,8	11,12
	14,15	10	17	19		

6XAPRH-5876 GlobalFiler™

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

7D4EME-5876 GlobalFiler™ Express

	16,16.3	17,25	10,13	15,18	9,11	NT
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25	NT	NT	16,18	6,8	11,12
	14,15	10	NT	NT	2	

7EUFQG-5871 Investigator® 24plex GO (Popstats)

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10				

TABLE 1

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

Item 4 - STR Results

7UM6LD-5871 GlobalFiler™

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

8CQN6U-5871 GlobalFiler™ (FORESTATISTICS)

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

8LPY6H-5871 GlobalFiler™ (DBLR)

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

8U7X7V-5871 PowerPlex® FUSION, ESX17, CS7, GlobalFiler™, VeriFiler Plus (Familias)

	16,16.3	17,25	10,13	15,18	9,11	12,14
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25	10,12	12,17	16,18	6,8	11,12
	14,15	10			2	

8YC4DE-5876

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

98NKKE-5876 Investigator® 24plex (Popstats)

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10				

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	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

9XDHYD-5871 Investigator® 24plex QS

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10				

9YBQ8W-5876 Identifiler® Plus, NGM SElect

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15		11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15					

AXT3LW-5871 FlexPlex

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25		12,17	16,18	6,8	11,12
	14,15	10	17	19		

B3KQE9-5871 GlobalFiler™

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

BC8P7D-5876 Verifiler Plus (GeneMapper ID-X 1.5)

	16,16.3	17,25	10,13	15,18	9,11	12,14
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25	10,12	12,17		6,8	11,12
	14,15				2	

BPHZZV-5871 FlexPlex (ANDE FAIRS Claimed Relationships)

	16,16.3	17,25	10,13	15,18	9,11	12,14
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25		12,17	16,18	6,8	11,12
	14,15	10	17	19		

TABLE 1

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

Item 4 - STR Results

BU9CWC-5871 GlobalFiler™

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

C6QDRD-5871 PowerPlex® 6C (eDNA)

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25	10,12	12,17	16,18	6,8	11,12
	14,15	10	17	19		

D33JYP-5871 GlobalFiler™ (FORSTATS)

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

D4PXV7-5871 PowerPlex® 21

	16,16.3	17,25		15,18	9,11	12,14
	9,12	12,14		18,22	11,12	9,12
4	15,15	13,14	30,30		X,Y	11,12
	20,25	10,12	12,17		6,8	11,12
	14,15					

DHADX7-5871 GlobalFiler™

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

DLANU6-5876 PowerPlex® Fusion (DNAView)

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25	10,12	12,17		6,8	11,12
	14,15	10				

TABLE 1

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

Item 4 - STR Results

DNV9YA-5876 GlobalFiler™

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

DRA76B-5871 GlobalFiler™

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

EFZPZR-5871 PowerPlex® Fusion

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25	10,12	12,17		6,8	11,12
	14,15	10				

ENT3X7-5871 PowerPlex® Fusion 6C

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25	10,12	12,17	16,18	6,8	11,12
	14,15	10	17	19		

EP46J6-5871 GlobalFiler™

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,22	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			.2	

EPNLY8-5876 PowerPlex® F6C

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25	10,12	12,17	16,18	6,8	11,12
	14,15	10	17	19		

TABLE 1

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

Item 4 - STR Results

G9CL49-5876 GlobalFiler™

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

GGKJM7-5876 PowerPlex® ESI 16 Fast

	16,16.3	17,25	10,13	15,18	10,13	
	Not included	12,14	14,15	18,22	18,22	9,12
4	15,15	13,14	30,30	11,15	X,Y	Not included
	20,25	Not included	Not included		6,8	Not included
	14,15	18,22	Not included	16,16.3	Not included	

GK69CP-5871 PowerPlex® Fusion

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25	10,12	12,17		6,8	11,12
	14,15	10				

GN4LV9-5871 PowerPlex® Fusion 6C

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25	10,12	12,17	16,18	6,8	11,12
	14,15	10	17	19		

GPLX4L-5871 GlobalFiler™

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

HM39M7-5876 GlobalFiler™ Express

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

TABLE 1

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

Item 4 - STR Results

HWTUT4-5876 PowerPlex® Fusion 6C

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25	10,12	12,17	16,18	6,8	11,12
	14,15	10	17	19		

J3XQC4-5876 GlobalFiler™

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

KVVZ96-5876 PowerPlex® Fusion 5C, Verifiler Plus (Familias, version 3.4)

	16,16.3	17,25	10,13	15,18	9,11	12,14
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25	10,12	12,17		6,8	11,12
	14,15	10			2	

LFEM7X-5871 PowerPlex® 21

	16,16.3	17,25		15,18	9,11	12,14
	9,12	12,14		18,22	11,12	9,12
4	15,15	13,14	30,30		X,Y	11,12
	20,25	10,12	12,17		6,8	11,12
	14,15					

LH27B2-5876 GlobalFiler™

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

LZH6HK-5871 GlobalFiler™

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

TABLE 1

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

Item 4 - STR Results

NFXEQF-5871 GlobalFiler™ (FORESTATISTICS)

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

NN844D-5871 GlobalFiler™ Direct

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

NWCL7W-5871 GlobalFiler™

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

P8RXXZ-5876 GlobalFiler™ Express

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

PEQH2F-5871 GlobalFiler™ Express

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

PZ73XG-5876 GlobalFiler™

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

TABLE 1

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

Item 4 - STR Results

Q3R9TX-5876 GlobalFiler™ Express

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25	-	-	16,18	6,8	11,12
	14,15	10	-	-	2	

QDTATW-5876 Investigator® 24plex

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10				

QHQTXF-5871 PowerPlex® 5C

	16,16.3	17,25	10,13	15,18	9,11	--
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25	10,12	12,17	--	6,8	11,12
	14,15	10	--	--	--	

R6AKAE-5871 VersaPlex 27PY System (Familias)

	16,16.3	17,25	10,13	15,18	9,11	12,14
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25	10,12	12,17		6,8	11,12
	14,15	10	17	19		

R6XQUE-5871 GlobalFiler™ IQC (GenoProof Software)

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

RKL2EV-5876 PowerPlex® Fusion

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25	10,12	12,17		6,8	11,12
	14,15	10				

TABLE 1

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

Item 4 - STR Results

RLJAMF-5871 PowerPlex® Fusion (Gen Analysen)

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30		X,Y	11,12
	20,25	10,12	12,17		6,8	11,12
	14,15	10				

RY6NNT-5871 GlobalFiler™

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

T33MEC-5876 GlobalFiler™, VeriFiler Plus (eDNA)

	16,16.3	17,25	10,13	15,18	9,11	12,14
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25	10,12	12,17	16,18	6,8	11,12
	14,15	10			2	

U6KALP-5876 GlobalFiler™

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

V3E7AU-5871 GlobalFiler™ (Biostat08 v.2.04, Familias 3.4)

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

VJYW9T-5871 GlobalFiler™ Express

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

TABLE 1

WebCode-Test	Amplification Kits (Paternity Software)					
	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

WDD28P-5871 GlobalFiler™

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

WGCC3P-5871 GlobalFiler™

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

WL4MDM-5876 Investigator® 24plex (GeneMarker v2.9.5)

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10				

X4JDPR-5876 GlobalFiler™ Express

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

XD873A-5871 GlobalFiler™ EXPRESS

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

XDAXUP-5876 GlobalFiler™, MiniFiler

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15,15	13,14	30,30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

TABLE 1

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

Item 4 - STR Results

YCVQ99-5871 VerifilerPlus (Applied Biosystems, ThermoFisher Cloud, Microsatellite Analysis CE Fragment Sizing)

	16,16.3	17,25	10,13	15,18	9,11	12,14
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25	10,12	12,17	-	6,8	11,12
	14,15	-	-	-	2	

YQR9WL-5876 GlobalFiler™ (Popstats)

	16,16.3	17,25	10,13	15,18	9,11	
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25			16,18	6,8	11,12
	14,15	10			2	

ZCM7WP-5876 Identifiler®

		17,25		15,18	9,11	
	9,12	12,14			11,12	9,12
4	15,15	13,14	30,30		X,Y	11,12
	20,25				6,8	11,12
	14,15					

ZGG7BK-5876 GlobalFiler™ Express

	16,16.3	17,25	10,13	15,18	9,11	NT
	9,12	12,14	14,15	18,22	11,12	9,12
4	15	13,14	30	11,15	X,Y	11,12
	20,25	NT	NT	16,18	6,8	11,12
	14,15	10	NT	NT	2	

Paternity Index Results

TABLE 2

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

Item 3PI - Paternity Index Results

2RVH2M-5871	NIST-STRBASE					
	8.60	4.75		2.10	1.40	1.69
	3.47	4.81		3.88	1.86	1.59
3PI	3.61	1.93	2.47			2.78
	2.44	4.35	5.82		2.90	1.53
	4.81					
4FXH62-5871	NIST-STRBASE					
	8.5911	4.7483	4.1494	2.0991	1.4045	-
	3.4722	4.8123	5.0839	3.8820	1.8608	1.5903
3PI	3.6101	1.9305	2.4728	1.3079		2.777
	2.4390	4.3478	5.8207	12.0192	2.8994	1.5330
	4.8123					
6XAPRH-5876	NIST-STRBASE					
	7.618	4.510	3.986	2.014	1.384	
	3.376	4.564	4.800	3.747	1.802	1.604
3PI	3.503	1.865	2.341	1.327		2.738
	2.421			10.076	2.852	1.503
	omitted					
7EUFQG-5871	NIST-STRBASE					
	12.048	4.2301	4.4092	1.7680	1.5843	
	3.0211	3.5613	4.9677	4.9554	1.6393	1.9470
3PI	3.7538	2.3702	2.4486	1.6818		2.9019
	2.5329			8.4890	4.8638	1.6559
	6.3532					
7UM6LD-5871	FBI PopStats					
	8.4175	4.1220	3.8110	2.1487	1.2243	
	3.0600	4.6992	5.7703	3.7397	1.6160	1.4637
3PI	3.2573	2.0300	2.7670	1.5783		3.0609
	2.6582			13.4770	3.2841	1.4908
	6.1200					
8CQN6U-5871	NIST-STRBASE					
	8.595238095	4.75	4.149425287	2.098837209	1.404669261	
	3.471153846	4.81333333	5.084507042	3.88172043	1.862824742	1.59030837
3PI	3.61	1.930481283	2.47260274	1.307971014		2.776923077
	2.439189189			12.0333333	2.899598394	1.532908705
	4.81333333					
8LPY6H-5871	NIST-STRBASE					
	8.595	4.752	4.153	2.101	1.406	
	3.473	4.815	5.088	3.885	1.862	1.592
3PI	3.613	1.932	2.475	1.309		2.780
	2.441			12.040	2.902	1.534
	4.815					

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

8U7X7V-5871	NIST-STRBASE					
	8.591065292	4.748812915	4.149792531	2.099076406	1.404634831	1.687078273
	3.472222222	4.812319538	5.084900864	3.882763975	1.860811314	1.590330789
3PI	3.610469314	1.930501931	2.472799209	1.307873398		2.777006387
	2.439268293	4.348695652	5.821303842	12.02403846	2.899681067	1.53319025
	4.812319538					
8YC4DE-5876	NIST-STRBASE					
	8.5911	4.7483	4.1494	2.0991	1.4045	
	3.4722	4.8123	5.0839	3.8820	1.8608	1.5903
3PI	3.6101	1.9305	2.4728	1.3079		2.7770
	2.4390			12.019	2.8994	1.5330
	4.8123					
98NKKE-5876	FBI PopStats					
	8.41	4.12	3.81	2.14	1.22	
	3.06	4.69	5.77	3.73	1.61	1.46
3PI	3.25	2.03	2.76	1.57		3.06
	2.65			13.4	3.28	1.49
	6.12					
9XDHYD-5871	NIST-STRBASE					
	12.0	4.23	4.40	1.76	1.58	
	3.02	3.56	4.96	4.95	1.63	1.94
3PI	3.75	2.37	2.44	1.68		2.90
	2.53			8.48	4.86	1.65
	6.35					
9YBQ8W-5876	NIST-STRBASE					
		4.748		2.099	1.404	
	3.472	4.812			1.860	1.590
3PI	3.610	1.930	2.472			2.777
	2.439				2.899	1.533
	4.812					
B3KQE9-5871	FBI PopStats					
	8.4175	4.1220	3.8110	2.1487	1.2243	
	3.0600	4.6992	5.7703	3.7397	1.6160	1.4637
3PI	3.2573	2.0300	2.7670	1.5783		3.0609
	2.6582			13.477	3.2841	1.4908
	6.1200					
BC8P7D-5876	NIST-STRBASE					
	8.59	4.75	4.15	2.099	1.40	1.69
	3.47	4.81	5.08	3.88	1.86	1.59
3PI	3.61	1.93	2.47	1.31		2.78
	2.44	4.35	5.82		2.90	1.53
	4.81					

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

BPHZZV-5871	NIST General population					
		4.2286	4.4085	1.7679	1.5841	2.3981
	3.0204	3.5601	4.9688	4.9569	1.6392	1.9474
3PI	3.7536	1.6444	2.4492	1.6818		2.9020
	1.2665			4.2459	4.8638	2.1451
	6.3558					
BU9CWC-5871	FBI PopStats					
	8.4175	4.1220	3.8110	2.1487	1.2243	
	3.0600	4.6992	5.7703	3.7397	1.6160	1.4637
3PI	3.2573	2.0300	2.7670	1.5783		3.0609
	2.6582			13.477	3.2841	1.4908
	6.1200					
C6QDRD-5871	FBI PopStats					
	8.5911	3.7064	4.1494	2.1487	1.2186	
	3.0600	4.5579	5.0839	3.8820	1.6335	1.4780
3PI	3.2134	2.1259	2.7609	1.3079		3.0609
	2.6483	3.8462	5.2632	12.0192	3.2841	1.4908
	5.9382					
D33JYP-5871	NIST-STRBASE					
	8.595238095	4.75	4.149425287	2.098837209	1.404669261	
	3.471153846	4.813333333	5.084507042	3.88172043	1.860824742	1.59030837
3PI	3.61	1.930481283	2.47260274	1.307971014		2.776923077
	2.439189189			12.03333333	2.899598394	1.532908705
	4.813333333					
D4PXV7-5871	NIST-STRBASE, NIST CAUCASIAN DATA					
	8.60	4.75		2.10	1.40	1.69
	3.47	4.81		3.88	1.86	1.59
3PI	3.61	1.93	2.47			2.78
	2.44	4.35	5.82		2.90	1.53
	4.81					
DHADX7-5871	[Location Identifying Database]					
	5.9594	4.6985	3.3883	1.8299	1.3530	
	2.7124	3.6249	4.6038	4.0633	1.7145	1.7651
3PI	3.8445	1.8124	2.1624	1.6108		3.0268
	2.5209			8.4544	2.9507	1.4767
	4.9424					
DLANU6-5876	NIST Promega					
	8.595	4.750	4.149	2.099	1.405	
	3.471	4.813	5.085	3.882	1.861	1.590
3PI	3.610	1.930	2.473	1.308		2.777
	2.439	4.349	5.823		2.900	1.533
	4.813					

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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DNV9YA-5876	NIST-STRBASE					
	8.5911	4.7483	4.1494	2.0991	1.4045	
	3.4722	4.8123	5.0839		1.8608	1.5903
3PI	3.6101	1.9305	2.4728	1.3079		2.7770
	2.4390			12.019	2.8994	1.5330
	4.8123					
DRA76B-5871	NIST-STRBASE					
	8.59	4.75	4.15	2.10	1.40	
	3.47	4.81	5.08	3.88	1.86	1.59
3PI	3.61	1.93	2.47	1.31		2.78
	2.44			12.02	2.90	1.53
	4.81					
EFZPZR-5871	NIST-STRBASE					
	8.595	4.750	4.149	2.099	1.405	
	3.471	4.813	5.085	3.882	1.861	1.590
3PI	3.610	1.930	2.473	1.308		2.777
	2.439	4.349	5.823		2.900	1.533
	4.813					
ENT3X7-5871	FBI PopStats					
	8.4175	4.1220	3.8110	2.1487	1.2243	
	3.0600	4.6992	5.7703	3.7397	1.6160	1.4637
3PI	3.2573	2.0300	2.7670	1.5783		3.0609
	2.6582	4.2992	5.3135	13.477	3.2841	1.4908
	6.1200					
EP46J6-5871	[Location Identifying Database]					
	7.11	5.28	3.59	1.96	1.39	
	2.79	3.88	5.15	4.44	1.82	1.75
3PI	4.16	1.94	2.39	1.59		3.16
	2.58			11.48	3.07	1.54
	5.62					
EPNLY8-5876	NIST-STRBASE					
	8.5911	4.7483	4.1494	2.0991	1.4045	
	3.4722	4.8123	5.0839	3.8820	1.8608	1.5903
3PI	3.6101	1.9305	2.4728	1.3079		2.7770
	2.4390	4.3478	5.8207	12.019	2.8994	1.5330
	4.8123					
G9CL49-5876	FBI PopStats					
	12.048	4.2301	4.4092	1.7680	1.5843	
	3.0211	3.5613	4.9677	4.9554	1.6393	1.9470
3PI	3.7538	2.3702	2.4486	1.6818		2.9019
	2.5329			8.4890	4.8638	1.6559
	6.3532					

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

GGKJM7-5876	NIST-STRBASE					
	8.60	4.75	4.15	2.10		
		4.81	5.08	3.88		1.59
3PI	3.61	1.93	2.47	1.31		
	2.44				2.90	
	4.81					
GK69CP-5871	NIST-STRBASE					
	8.5910	4.7483	4.1493	2.0990	1.4044	
	3.4722	4.8123	5.0838	3.8819	1.8608	1.5903
3PI	3.6101	1.9305	2.4727	1.3078		2.7770
	2.4390	4.3478	5.8207		2.8993	1.5330
	4.8123					
GN4LV9-5871	NIST-STRBASE					
	8.59107	4.74834	4.14938	2.09908	1.40449	
	3.47222	4.81232	5.08388	3.88199	1.86081	1.59033
3PI	3.61011	1.93050	2.47280	1.30787		2.77701
	2.43902	4.34783	5.82072	12.01923	2.89939	1.53304
	4.81232					
GPLX4L-5871	NIST-STRBASE					
	8.595238095	4.75	4.149425287	2.098837209	1.404669261	
	3.471153846	4.813333333	5.084507042	3.88172043	1.860824742	1.59030837
3PI	3.61	1.930481283	2.47260274	1.307971014		2.776923077
	2.439189189			12.03333333	2.899598394	1.532908705
	4.813333333					
HM39M7-5876	FBI PopStats					
	8.4175	4.1220	3.8110	2.1487	1.2243	
	3.0600	4.6992	5.7703	3.7397	1.6160	1.4637
3PI	3.2573	2.0300	2.7670	1.5783		3.0609
	2.6582				3.2841	1.4908
	6.1200					
HWTUT4-5876	NIST-STRBASE					
	8.5911	4.7483	4.1494	2.0991	1.4045	
	3.4722	4.8123	5.0839	3.8820	1.8608	1.5903
3PI	3.6101	1.9305	2.4728	1.3079		2.7770
	2.4390	4.3478	5.8207	12.019	2.8994	1.5330
	4.8123					
J3XQC4-5876	[Location Identifying Database]					
		4.36		2.19	1.27	
	3.03	5.06			1.62	1.65
3PI	4.06	2.01	2.44			3.05
	2.96				3.44	1.54
	6.02					

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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KWZ96-5876 in house database

	6.675698839	5.328025321	3.405111012	2.069433416	1.419815788	1.545248831
	3.019625446	5.435034947	5.087684525	3.815310341	1.701260731	1.891177075
3PI	4.648022487	1.821990368	2.486964853	1.349074316		3.00061873
	2.901344422	5.044848359	5.676009797		2.885042813	1.571990192
	4.710237087					

LFEM7X-5871 [Location Identifying Database]

	6.04	3.99		1.84	1.32	1.42
	2.96	4.17		4.02	1.65	1.70
3PI	3.67	1.80	2.17			3.01
	2.74	3.82	4.85		2.98	1.48
	5.67					

LH27B2-5876 NIST-STRBASE

	7.62	4.51	3.99	2.01	1.38	
	3.38	4.56	4.80	Omitted	1.80	1.60
3PI	3.50	1.86	2.34	1.33		2.74
	2.42			10.1	2.85	1.50
	4.56					

NFXEQF-5871 NIST-STRBASE

	8.595238095	4.75	4.149425287	2.098837209	1.404669261	
	3.471153846	4.813333333	5.084507042	3.88172043	1.860824742	1.59030837
3PI	3.61	1.930481283	2.47260274	1.307971014		2.776923077
	2.439189189			12.03333333	2.899598394	1.532908705
	4.813333333					

NN844D-5871 [Location Identifying Database]

	20.69	2.482	6.35	1.95	1.04	
	6.50	4.52	5.692	8.229	2.41	2.009
3PI	3.44	2.422	1.887	1.37		2.632
	4.67			10.19	6.59	1.887
	12.64					

NWCL7W-5871 FBI PopStats

	8.4175	4.1220	3.8110	2.1487	1.2243	
	3.0600	4.6992	5.7703	3.7397	1.6160	1.4637
3PI	3.2573	2.0300	2.7670	1.5783		3.0609
	2.6582			13.477	3.2841	1.4908

P8RXXZ-5876 FBI PopStats

	8.4175	4.1220	3.8110	2.1487	1.2243	
	3.0600	4.6992	5.7703	3.7397	1.6160	1.4637
3PI	3.2573	2.0300	2.7670	1.5783		3.0609
	2.6582				3.2841	1.4908
	6.1200					

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

PEQH2F-5871	NIST-STRBASE, NIST Caucasian					
	8.60	4.75	4.15	2.10	1.40	
	3.47	4.81	5.08	3.88	1.86	1.59
3PI	3.61	1.93	2.47	1.31		2.78
	2.44			12.03	2.90	1.53
	4.81					
PZ73XG-5876	NIST-STRBASE					
	8.595	4.750	4.149	2.099	1.405	
	3.471	4.813	5.085	3.882	1.861	1.590
3PI	3.610	1.930	2.473	1.308		2.777
	2.439			12.033	2.900	1.533
	4.813					
Q3R9TX-5876	FBI PopStats					
	8.4175	4.1220	3.8110	2.1487	1.2243	
	3.0600	4.6992	5.7703	3.7397	1.6160	1.4637
3PI	3.2573	2.0300	2.7670	1.5783		3.0609
	2.6582			-	3.2841	1.4908
	6.1200					
QDTATW-5876	FBI PopStats					
	8.4175	4.1220	3.8110	2.1487	1.2243	
	3.0600	4.6992	5.7703	3.7397	1.6160	1.4637
3PI	3.2573	2.0300	2.7670	1.5783		3.0609
	2.6582			13.477	3.2841	1.4908
	6.1200					
QHQTXF-5871	NIST-STRBASE					
	8.5911	4.7483	4.1494	2.0991	1.4045	--
	3.4722	4.8123	5.0839	3.8820	1.8608	1.5903
3PI	3.6101	1.9305	2.4728	1.3079		2.7770
	2.4390	4.3478	5.8207	--	2.8994	1.5330
	4.8123					
R6AKAE-5871	NIST-STRBASE					
	8.591	4.748	4.149	2.099	1.404	1.687
	3.472	4.812	5.084	3.882	1.860	1.590
3PI	3.610	1.930	2.472	1.307		2.777
	2.439	4.348	5.821		2.899	1.533
	4.812					
R6XQUE-5871	STRider (STR for Identity ENFSI Reference Database)					
	8.3612	4.9455	3.9651	2.2999	1.3853	
	3.3189	4.9455	5.1098	3.9651	2.0133	1.5974
3PI	3.5112	1.9409	2.5549	1.2886		2.7706
	2.5138			11.4942	2.9868	1.5290
	4.8923					

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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RKL2EV-5876	NIST-STRBASE					
	8.595	4.75	4.13	2.09	1.401	
	3.47	4.81	5.06	3.88	1.85	1.59
3PI	3.61	1.93	2.46	1.31		2.77
	2.44	4.35	5.82		2.89	1.53
	4.81					
RLJAMF-5871	NIST-STRBASE					
	4.30	2.38	2.07	2.10	1.40	
	1.74	3.17	2.54	1.94	1.86	1.59
3PI	1.81	1.38	2.47			1.39
	1.21	3.45	2.91		1.45	0.95
	3.29					
RY6NNT-5871	FBI PopStats					
	8.4175	4.1220	3.8110	2.1487	1.2243	
	3.0600	4.6992	5.7703	3.7397	1.6160	1.4637
3PI	3.2573	2.0300	2.7670	1.5783		3.0609
	2.6582			13.477	3.2841	1.4908
T33MEC-5876	NIST-STRBASE					
	8.5911	4.7483	4.1494	2.0991	1.4045	1.6869
	3.4722	4.8123	5.0839	3.8820	1.8608	1.5903
3PI	3.6101	1.9305	2.4728	1.3079		2.7770
	2.4390	4.3478	5.8207	12.0192	2.8994	1.5330
	4.8123					
U6KALP-5876	NIST-STRBASE					
	8.59	4.75	4.15	2.10	1.40	
	3.47	4.81	5.08	3.88	1.86	1.59
3PI	3.61	1.93	2.47	1.31		2.78
	2.44			12.0	2.90	1.53
	4.81					
V3E7AU-5871	[Location Identifying Database]					
	10.00	4.63	3.30	1.93	1.62	
	3.06	4.76	4.62	4.46	2.08	1.53
3PI	4.63	2.01	2.61	1.55		3.10
	2.53			8.64	3.10	1.51
	8.43					
WDD28P-5871	FBI PopStats					
	8.4175	4.1220	3.8110	2.1487	1.2243	
	3.0600	4.6992	5.7703	3.7397	1.6160	1.4637
3PI	3.2573	2.0300	2.7670	1.5783		3.0609
	2.6582			13.477	3.2841	1.4908

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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WGCC3P-5871 FBI PopStats

	8.4175	4.1220	3.8110	2.1487	1.2243	
	3.0600	4.6992	5.7703	3.7397	1.6160	1.4637
3PI	3.2573	2.0300	2.7670	1.5783		3.0609
	2.6582			13.477	3.2841	1.4908

WL4MDM-5876 laboratory specific database

	11.2	4.53	3.12	2.02	1.62	
	3.09	4.42	4.42	4.5	1.85	1.69
3PI	4.88	2.15	2.19	1.51		3.41
	2.84			11.6	3.98	1.59
	5.96					

X4JDPR-5876 NIST-STRBASE

	4.2955	2.3742	2.0747	2.0991	1.4045	
	1.7361	3.1647	2.5419	1.9410	1.8608	1.5903
3PI	1.8051	1.3831	2.4728	1.4320		1.3885
	1.2195			6.0096	1.4497	0.9526
	3.2868					

XD873A-5871 PROMEGA/NIST

	8.223214	4.898936	3.95279	2.291045	1.270909	
	3.012931	4.898936	5.088398	3.935897	1.618056	1.593426
3PI	3.488636	1.934874	2.544199	1.286313		3.03913
	2.502717			11.23171	2.980583	1.536264
	4.847368					

XDAXUP-5876 NIST-STRBASE

	7.62	4.51	3.99	2.01	1.38	
	3.38	4.56	4.80	3.75	1.80	1.60
3PI	3.50	1.86	2.34	1.33		2.74
	2.42			10.1	2.85	1.50
	Omitted					

YCVQ99-5871 In-house population based database

	14.21	2.23	1.93	1.41	2.14	4.51
	1.36	2.24	3.73	5.66	1.39	2.31
3PI	1.42	3.58	3.65	2.34		1.51
	1.47	7.57	2.82	-	16.06	1.70
	5.86					

YQR9WL-5876 FBI PopStats

	12.048	4.2301	4.4092	1.7680	1.5843	
	3.0211	3.5613	4.9677	4.9554	1.6393	1.9470
3PI	3.7538	2.3702	2.4486	1.6818		2.9019
	2.5329			8.4890	4.8638	1.6559
	6.3532					

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

ZCM7WP-5876 Caucasian

		3.48		1.92	1.62	
	2.44	4.19			1.65	1.78
3PI	4.95	1.95	2.10			2.95
	2.68				4.14	1.57
	7.11					

TABLE 2

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

Item 4PI - Paternity Index Results

2RVH2M-5871	NIST-STRBASE					
	0.00860	0.000475		0.00210	1.40	0.00169
	0.00347	0.00481		0.00388	1.86	1.59
4PI	0.000722	0.965	0.00495			1.39
	0.000610	4.35	0.000582		0.00200	0.0000766
	0.00000481					
4FXH62-5871	NIST-STRBASE					
	-	-	-	-	1.4045	
	-	-	2.5419	-	1.8608	1.5903
4PI	-	0.9653	-	-		1.3885
	-	4.3478	-	-	-	-
	-					
6XAPRH-5876	NIST-STRBASE					
	0.000	0.000	0.000	0.000	1.384	
	0.000	0.000	2.517	0.000	1.802	1.604
4PI	0.000	0.950	0.000	0.000		1.406
	0.000			0.000	0.000	0.000
	0.000					
8LPY6H-5871	NIST-STRBASE					
	0	0	0	0	1.406	
	0	0	2.544	0	1.862	1.592
4PI	0	0.966	0	0		1.390
	0			0	0	0
	0					
8YC4DE-5876	NIST-STRBASE					
	0	0	0	0	1.4045	
	0	0	2.5419	0	1.8608	1.5903
4PI	0	0.96525	0	0		1.3885
	0			0	0	0
	0					
9YBQ8W-5876	NIST-STRBASE					
	0	0	0	0	1.404	
	0	0	2.541		1.860	1.590
4PI	0	0.965	0	0		1.388
	0			0	0	0
	0					
BPHZZV-5871	NIST General population					
		1.7619	0	0.0022	1.5841	0
	0	0	1.2422	1.1991	1.6392	0.9737
4PI	0	0.8222	0	0.7789		1.6391
	2.4904			0	0	0
	0					

TABLE 2

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

Item 4PI - Paternity Index Results

C6QDRD-5871 FBI PopStats

	0.0000	0.0000	0.0000	0.0000	1.2186	
	0.0000	0.0000	2.5419	0.0000	1.6335	1.4780
4PI	0.0000	1.0629	0.0000	0.0000		1.5305
	0.0000	3.8462	0.0000	0.0000	0.0000	0.0000
	0.0000					

D4PXV7-5871 NIST-STRBASE, NIST CAUCASIAN DATA

					1.40	
					1.86	1.59
4PI		0.965				1.39
		4.35				

DLANU6-5876 NIST Promega

	0.000	0.000	0.000	0.000	1.405	
	0.000	0.000	2.542	0.000	1.861	1.590
4PI	0.000	0.965	0.000	0.000		1.388
	0.000	4.349	0.000		0.000	0.000
	0.000					

DRA76B-5871 NIST-STRBASE

	0	0	0	0	1.40	
	0	0	2.54	0	1.86	1.59
4PI	0	0.97	0	0		1.39
	0			0	0	0
	0					

EP46J6-5871 [Location Identifying Database]

	0.00	0.00	0.00	0.00	1.39	
	0.00	0.00	2.58	0.00	1.82	1.75
4PI	0.00	0.97	0.00	0.00		1.58
	0.00			0.00	0.00	0.00
	0.00					

G9CL49-5876 FBI PopStats

					1.5843	
			2.4839		1.6393	1.9470
4PI		1.1851				1.4510

GN4LV9-5871 NIST-STRBASE

	0	0	0	0	1.40449	
	0	0	2.54194	0	1.86081	1.59033
4PI	0	0.96525	0	0		1.38850
	0	4.34783	0	0	0	0
	0					

TABLE 2

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

Item 4PI - Paternity Index Results

J3XQC4-5876 [Location Identifying Database]

		0		0	1.27	
	0	0			1.62	1.65
4PI	0	1.00	0			1.52
	0				0	0
	0					

KVVZ96-5876 in house database

	1.1763919694e-3	8.0651633154e-4	3.4111857813e-4	5.3868294710e-4	1.419815788	7.1338932223e-5
	6.5955466970e-4	1.5834042090e-3	2.544143446	1.1811944700e-3	1.701260731	1.891120337
4PI	1.2808959801e-3	0.9110711539	3.3961784183e-4	4.0148682048e-4		1.500534704
	1.0763973928e-3	5.044670224	8.0767905888e-4		3.2460018215e-5	5.3902350840e-5
	1.4581449599e-3					

LH27B2-5876 NIST-STRBASE

	0	0	0	0	1.38	
	0	0	2.52	Omitted	1.80	1.60
4PI	0	0.950	0	0		1.41
	0			0	0	0
	0					

NN844D-5871 [Location Identifying Database]

	0	0	0	0	1.04	
	0	0	2.846	0	2.41	2.009
4PI	0	1.21	0	0		1.316
	0			0	0	0
	0					

QHQTXF-5871 NIST-STRBASE

	--	--	--	--	1.4045	
	--	--	2.5419	--	1.8608	1.5903
4PI	--	0.9653	--	--		1.3885
	--	4.3478	--		--	--
	--					

R6AKAE-5871 NIST-STRBASE

	0	0	0	0	1.404	0
	0	0	2.542	0	1.860	1.590
4PI	0	0.965	0	0		1.388
	0	4.348	0		0	0
	0					

R6XQUE-5871 STRider (STR for Identity ENFSI Reference Database)

	n.m.	n.m.	n.m.	n.m.	1.3853	
	n.m.	n.m.	2.5549	n.m.	2.0133	1.5974
4PI	n.m.	0.9704	n.m.	n.m.		1.3853
	n.m.			n.m.	n.m.	n.m.
	n.m.					

TABLE 2

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

Item 4PI - Paternity Index Results

RLJAMF-5871 NIST-STRBASE

	0.00	0.00	0.00	0.00	1.40	
	0.00	0.01	2.54	0.00	1.86	1.59
4PI	0.00	0.97	0.00			1.39
	0.00	4.34	0.00		0.00	0.00
	0.00					

T33MEC-5876 NIST-STRBASE

	0.0000	0.0000	0.0000	0.0000	1.4045	0.0000
	0.0000	0.0000	2.5419	0.0000	1.8608	1.5903
4PI	0.0000	0.9653	0.0000	0.0000		1.3885
	0.0000	4.3478	0.0000	0.0000	0.0000	0.0000
	0.0000					

V3E7AU-5871 [Location Identifying Database]

	/	/	/	/	1.62	
	/	/	2.31	/	2.08	1.53
4PI	/	1.01	/	/		1.55
	/			/	/	/
	/					

WL4MDM-5876 laboratory specific database

	0.0896	0.0106	0.00624	0.00482	1.62	
	0.00619	0.0122	2.21	0.018	1.85	1.69
4PI	0.0216	1.08	0.00828	0.00904		1.7
	0.0161			0.0465	0.00796	0.000186
	0.0000709					

XDAXUP-5876 NIST-STRBASE

	0	0	0	0	1.38	
	0	0	2.52	0	1.80	1.60
4PI	0	0.950	0	0		1.41
	0			0	0	0
	Omitted					

YCVQ99-5871 In-house population based database

	5.17	3.27	0.00	0.00	2.14	0.00
	0.00	0.00	1.87	1.09	1.39	1.62
4PI	0.00	1.79	0.00	1.12		1.94
	2.37	1.71	0.00	-	0.00	0.00
	0.00					

YQR9WL-5876 FBI PopStats

					1.5843	
			2.4839		1.6393	1.9470
4PI		1.1851				1.4510

TABLE 2

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

Item 4PI - Paternity Index Results

ZCM7WP-5876 Caucasian

		0.00		0.00	1.62	
	0.00	0.00			1.65	1.78
4PI	0.00	0.97	0.00			1.47
	0.00				0.00	0.00
	0.00					

YSTR Amplification Kit(s) & Results

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									
2RVH2M-5871		Yfiler® Plus							
	35,36	15	11,15	13	29	23	11	13	13
3	15	12	11	19	30	15	17	11	22
	36	12		16	17	20	25		12
36GCQL-5871		PowerPlex® Y							
		15	11,15	13	29	23	11	13	13
3	15	12	11	19		15	17		22
		12	13	16	17		25	10	12
4FXH62-5871		PowerPlex® Y 23							
	-	15	11,15	13	29	23	11	13	13
3	15	12	11	19	-	15	17	-	22
	-	12	13	16	17	-	25	10	12
7UM6LD-5871		Yfiler® Plus							
	35,36	15	11,15	13	29	23	11	13	13
3	15	12	11	19	30	15	17	11	22
	36	12		16	17	20	25		12
9YBQ8W-5876		Yfiler®							
		15	11,15	13	29	23	11	13	13
3	15	12	11	19		15	17		
							25		12
B3KQE9-5871		Yfiler® Plus							
	35,36	15	11,15	13	29	23	11	13	13
3	15	12	11	19	30	15	17	11	22
	36	12		16	17	20	25		12
BC8P7D-5876		Yfiler® Plus							
	35,36	15	11,15	13	29	23	11	13	13
3	15	12	11	19	30	15	17	11	22
	36	12		16	17	20	25		12
BU9CWC-5871		Yfiler®							
		15	11,15	13	29	23	11	13	13
3	15	12	11	19		15	17		
							25		12
D4PXV7-5871		Yfiler® Plus							
	35,36	15	11,15	13	29	23	11	13	13
3	15	12	11	19	30	15	17	11	22
	36	12		16	17	20	25		12

TABLE 3

Item 3 - YSTR Results

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
DLANU6-5876		PowerPlex® Y 23							
		15	11,15	13	29	23	11	13	13
3	15	12	11	19		15	17		22
		12	13	16	17		25	10	12
DRA76B-5871		PowerPlex® Y 23							
		15	11,15	13	29	23	11	13	13
3	15	12	11	19		15	17		22
		12	13	16	17		25	10	12
GGKJM7-5876		Yfiler® Plus							
	35,36	15	11,15	13	29	23	11	13	13
3	15	12	11	19	30	15	17	11	22
	36	12		16	17	20	25		12
GK69CP-5871		Yfiler®							
		15	11,15	13	29	23	11	13	13
3	15	12	11	19		15	17		
							25		12
GN4LV9-5871		PowerPlex® Y 23							
		15	11,15	13	29	23	11	13	13
3	15	12	11	19		15	17		22
		12	13	16	17		25	10	12
LFEM7X-5871		Yfiler® Plus							
	35,36	15	11,15	13	29	23	11	13	13
3	15	12	11	19	30	15	17	11	22
	36	12		16	17	20	25		12
LH27B2-5876		Yfiler®							
		15	11,15	13	29	23	11	13	13
3	15	12	11	19		15	17		
							25		12
NN844D-5871		Yfiler® Plus							
	35,36	15	11,15	13	29	23	11	13	13
3	15	12	11	19	30	15	17	11	22
	36	12		16	17	20	25		12
NWCL7W-5871		Yfiler® Plus							
	35,36	15	11,15	13	29	23	11	13	13
3	15	12	11	19	30	15	17	11	22
	36	12		16	17	20	25		12
PEQH2F-5871		PowerPlex® Y 23							
		15	11,15	13	29	23	11	13	13
3	15	12	11	19		15	17		22
		12	13	16	17		25	10	12

TABLE 3

Item 3 - YSTR Results

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
PZ73XG-5876		Yfiler® Plus							
	35,36	15	11,15	13	29	23	11	13	13
3	15	12	11	19	30	15	17	11	22
	36	12		16	17	20	25		12
R6XQUE-5871		Yfiler®							
		15	11,15	13	29	23	11	13	13
3	15	12	11	19		15	17		
							25		12
RLJAMF-5871									
		15	11,15	13	29	23	11	13	13
3	15	12	11	19		15	17		22
		12	13	16			25	10	12
RY6NNT-5871		Yfiler® Plus							
	35,36	15	11,15	13	29	23	11	13	13
3	15	12	11	19	30	15	17	11	22
	36	12		16	17	20	25		12
T33MEC-5876		Yfiler® Plus							
	35,36	15	11,15	13	29	23	11	13	13
3	15	12	11	19	30	15	17	11	22
	36	12		16	17	20	25		12
V3E7AU-5871		Yfiler® Plus							
	35,36	15	11,15	13	29	23	11	13	13
3	15	12	11	19	30	15	17	11	22
	36	12		16	17	20	25		12
WDD28P-5871		Yfiler® Plus							
	35,36	15	11,15	13	29	23	11	13	13
3	15	12	11	19	30	15	17	11	22
	36	12		16	17	20	25		12
WGCC3P-5871		Yfiler® Plus							
	35,36	15	11,15	13	29	23	11	13	13
3	15	12	11	19	30	15	17	11	22
	36	12		16	17	20	25		12
WL4MDM-5876		PowerPlex® Y 23							
		15	11,15	13	29	23	11	13	13
3	15	12	11	19		15	17		22
		12	13	16	17		25	10	12
X4JDPR-5876		Yfiler®							
3									

TABLE 3

Item 4 - YSTR Results

Item	WebCode-Test / Amplification Kit								
	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	Y GATA H4
2RVH2M-5871		Yfiler® Plus							
	37,39	14	13,17	13	30	23	10	11	12
4	15	9	11	20	28	15	18	10	21
	42	11		17	19	22	24		12
36GCQL-5871									
		14	13,17	13	30	23	10	11	12
4	15	9	11	20		15	18		21
		11	13	17	19		24	10	12
4FXH62-5871		PowerPlex® Y 23							
	-	14	13,17	13	30	23	10	11	12
4	15	9	11	20	-	15	18	-	21
	-	11	13	17	19	-	24	10	12
7UM6LD-5871		Yfiler® Plus							
	37,39	14	13,17	13	30	23	10	11	12
4	15	9	11	20	28	15	18	10	21
	42	11	-	17	19	22	24	-	12
9YBQ8W-5876		Yfiler®							
		14	13,17	13	30	23	10	11	12
4	15	9	11	20		15	18		
							24		12
B3KQE9-5871		Yfiler® Plus							
	37,39	14	13,17	13	30	23	10	11	12
4	15	9	11	20	28	15	18	10	21
	42	11		17	19	22	24		12
BC8P7D-5876		Yfiler® Plus							
	37,39	14	13,17	13	30	23	10	11	12
4	15	9	11	20	28	15	18	10	21
	42	11		17	19	22	24		12
BU9CWC-5871		Yfiler®							
		14	13,17	13	30	23	10	11	12
4	15	9	11	20		15	18		
							24		12
D4PXV7-5871		Yfiler® Plus							
	37,39	14	13,17	13	30	23	10	11	12
4	15	9	11	20	28	15	18	10	21
	42	11		17	19	22	24		12
DLANU6-5876		PowerPlex® Y 23							
		14	13,17	13	30	23	10	11	12
4	15	9	11	20		15	18		21
		11	13	17	19		24	10	12

TABLE 3

Item 4 - YSTR Results

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
DRA76B-5871		PowerPlex® Y 23							
		14	13,17	13	30	23	10	11	12
4	15	9	11	20		15	18		21
		11	13	17	19		24	10	12
GGKJM7-5876		Yfiler® Plus							
	37,39	14	13,17	13	30	23	10	11	12
4	15	9	11	20	28	15	18	10	21
	42	11		17	19	22	24		12
GK69CP-5871									
		14	13,17	13	30	23	10	11	12
4	15	9	11	20		15	18		
							24		12
GN4LV9-5871		PowerPlex® Y 23							
		14	13,17	13	30	23	10	11	12
4	15	9	11	20		15	18		21
		11	13	17	19		24	10	12
LFEM7X-5871		Yfiler® Plus							
	37,39	14	13,17	13	30	23	10	11	12
4	15	9	11	20	28	15	18	10	21
	42	11		17	19	22	24		12
LH27B2-5876		Yfiler®							
		14	13,17	13	30	23	10	11	12
4	15	9	11	20		15	18		
							24		12
NN844D-5871		Yfiler® Plus							
	37,39	14	13,17	13	30	23	10	11	12
4	15	9	11	20	28	15	18	10	21
	42	11		17	19	22	24		12
NWCL7W-5871		Yfiler® Plus							
	37,39	14	13,17	13	30	23	10	11	12
4	15	9	11	20	28	15	18	10	21
	42	11		17	19	22	24		12
PEQH2F-5871		PowerPlex® Y 23							
		14	13,17	13	30	23	10	11	12
4	15	9	11	20		15	18		21
		11	13	17	19		24	10	12
PZ73XG-5876		Yfiler® Plus							
	37,39	14	13,17	13	30	23	10	11	12
4	15	9	11	20	28	15	18	10	21
	42	11		17	19	22	24		12

TABLE 3

Item 4 - YSTR Results

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
R6XQUE-5871		Yfiler®							
		14	13,17	13	30	23	10	11	12
4	15	9	11	20		15	18		
							24		12
RLJAMF-5871									
		14	13,17	13	30	23	10	11	12
4	15	9	11	20		15	18		21
		11	13	17			24	10	12
RY6NNT-5871		Yfiler® Plus							
	37,39	14	13,17	13	30	23	10	11	12
4	15	9	11	20	28	15	18	10	21
	42	11		17	19	22	24		12
T33MEC-5876		Yfiler® Plus							
	37,39	14	13,17	13	30	23	10	11	12
4	15	9	11	20	28	15	18	10	21
	42	11		17	19	22	24		12
V3E7AU-5871		Yfiler® Plus							
	37,39	14	13,17	13	30	23	10	11	12
4	15	9	11	20	28	15	18	10	21
	42	11		17	19	22	24		12
WDD28P-5871		Yfiler® Plus							
	37,39	14	13,17	13	30	23	10	11	12
4	15	9	11	20	28	15	18	10	21
	42	11		17	19	22	24		12
WGCC3P-5871		Yfiler® Plus							
	37,39	14	13,17	13	30	23	10	11	12
4	15	9	11	20	28	15	18	10	21
	42	11		17	19	22	24		12
WL4MDM-5876		PowerPlex® Y 23							
		14	13,17	13	30	23	10	11	12
4	15	9	11	20		15	18		21
		11	13	17	19		24	10	12
X4JDPR-5876		Yfiler®							
4									

Additional DNA & PI Results

TABLE 4

Locus	WebCode-Test	Item 1	Item 2	Item 3	Item 3 PI	Item 4	Item 4 PI
DYS385A	RLJAMF-5871			11		13	
DYS385B	RLJAMF-5871			15		17	
F13A01	8U7X7V-5871	6,6	6,7	7,7	3,166561115	6,6	
F13B	8U7X7V-5871	6,8	8,10	8,10	1,284686536	9,9	
FESFPS	8U7X7V-5871	11,11	11,11	10,11	1,215362178	11,13	
LPL	8U7X7V-5871	10,10	10,10	10,10	2,367424242	12,12	
PENTA C	8U7X7V-5871	11,11	9,11	9,11	3,342245989	10,12	

Paternity DNA Statistics & Conclusions

TABLE 5

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
2RVH2M-5871	Item 3 - Alleged Father A	2464392255.308	99.9999999594%	NIST-STRBASE
36GCQL-5871	Item 3 - Alleged Father A			[Location Identifying Database]
4FXH62-5871	Item 3 - Alleged Father A	483,703,668,794.2610	99.999999999793	NIST-STRBASE
6XAPRH-5876	Item 3 - Alleged Father A	1,800,000,000		NIST-STRBASE
7D4EME-5876	Item 3 - Alleged Father A			FBI PopStats
7EUFQG-5871	Item 3 - Alleged Father A	62,240,000,000	99.99	NIST-STRBASE
7UM6LD-5871	Item 3 - Alleged Father A	24,220,000,000	99.999999995871	FBI PopStats
8CQN6U-5871	Item 3 - Alleged Father A	19155463030	0.999999999	NIST-STRBASE
8LPY6H-5871	Item 3 - Alleged Father A	1.94631E10	99.9999999948621	NIST-STRBASE
8U7X7V-5871	Item 3 - Alleged Father A	31983146190000	99,99999999999690%	NIST-STRBASE
8YC4DE-5876	Item 3 - Alleged Father A	19,110,000,000	99.99	NIST-STRBASE
98NKKE-5876	Item 3 - Alleged Father A	2E10		FBI PopStats
9XDHYD-5871	Item 3 - Alleged Father A	62,240,000,000	99.99%	NIST-STRBASE
9YBQ8W-5876	Item 3 - Alleged Father A	1724734.722		NIST-STRBASE
AXT3LW-5871	Item 3 - Alleged Father A			
B3KQE9-5871	Item 3 - Alleged Father A	24,220,000,000	99.999999995871	FBI PopStats
BC8P7D-5876	Item 3 - Alleged Father A	67,891,306,294.3556	99.99999999%	NIST-STRBASE
BPHZZV-5871	Item 3 - Alleged Father A	2,785,015,730	99.99	NIST General population
BU9CWC-5871	Item 3 - Alleged Father A	24,220,000,000	99.999999995871%	FBI PopStats
C6QDRD-5871	Item 3 - Alleged Father A	325,156,512,881.6640	99.9999	FBI PopStats

TABLE 5 - Paternity DNA Statistics & Conclusions

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
D33JYP-5871	Item 3 - Alleged Father A	19155463030	0.99999999994780	NIST-STRBASE
D4PXV7-5871	Item 3 - Alleged Father A	2.4 billion		NIST-STRBASE, NIST CAUCASIAN DATA
DHADX7-5871	Item 3 - Alleged Father A	8.92e8	0.9999999989	[Location Identifying Database]
DLANU6-5876	Item 3 - Alleged Father A	10385490000	99.99999999	NIST Promega
DNV9YA-5876	Item 3 - Alleged Father A	4.92 billion	99.99999997969	NIST-STRBASE
DRA76B-5871	Item 3 - Alleged Father A	19113931673	99.99	NIST-STRBASE
EFZPZR-5871	Item 3 - Alleged Father A	40313576489	99.99999	NIST-STRBASE
ENT3X7-5871	Item 3 - Alleged Father A	553,400,000,000	99.9999999998193	FBI PopStats
EP46J6-5871	Item 3 - Alleged Father A	22,003,420,465		[Location Identifying Database]
EPNLY8-5876	Item 3 - Alleged Father A	4.83E11		NIST-STRBASE
G9CL49-5876	Item 3 - Alleged Father A	62,240,000,000	99.999999998393	FBI PopStats
GGKJM7-5876	Item 3 - Alleged Father A	41216693.99	99.9999999%	NIST-STRBASE
GK69CP-5871	Item 3 - Alleged Father A	40.2 billion	99.9%	NIST-STRBASE
GN4LV9-5871	Item 3 - Alleged Father A	483725557347.284	99.9999999997%	NIST-STRBASE
GPLX4L-5871	Item 3 - Alleged Father A	19155463030	0.999999999947796	NIST-STRBASE
HM39M7-5876	Item 3 - Alleged Father A	1,797,000,000	99.99999994435	FBI PopStats
HWTUT4-5876	Item 3 - Alleged Father A	4.83E11		NIST-STRBASE
J3XQC4-5876	Item 3 - Alleged Father A	2,866,449	99.99%	[Location Identifying Database]
KWZ96-5876	Item 3 - Alleged Father A	8.528069763e10	99.99999999	in house database
LFEM7X-5871	Item 3 - Alleged Father A	640,000,000		[Location Identifying Database]

TABLE 5 - Paternity DNA Statistics & Conclusions

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
LH27B2-5876	Item 3 - Alleged Father A	2.2 Billion		NIST-STRBASE
LZH6HK-5871	Item 3 - Alleged Father A	53800000000	99.9999%	Laboratory inner database
NFXEQF-5871	Item 3 - Alleged Father A	19155463030	0.99999999994780	NIST-STRBASE
NN844D-5871	Item 3 - Alleged Father A	1.904.468.395.655	99.9999%	[Location Identifying Database]
NWCL7W-5871	Item 3 - Alleged Father A	3.958 billion	99.99%	FBI PopStats
P8RXXZ-5876	Item 3 - Alleged Father A	1,797,000,000	99.99999994435	FBI PopStats
PEQH2F-5871	Item 3 - Alleged Father A	19 billion		NIST-STRBASE, NIST Caucasian
PZ73XG-5876	Item 3 - Alleged Father A	1.92E10	99.999999995%	NIST-STRBASE
Q3R9TX-5876	Item 3 - Alleged Father A	1,797,000,000	99.99999994435	FBI PopStats
QDTATW-5876	Item 3 - Alleged Father A	24,220,000,000	99.99	FBI PopStats
QHQTXF-5871	Item 3 - Alleged Father A	40,245,000,000	99.999999998	NIST-STRBASE
R6AKAE-5871	Item 3 - Alleged Father A	67,972,815,860	99.99999999%	NIST-STRBASE
R6XQUE-5871	Item 3 - Alleged Father A	22,428,316,457	99.9999999955%	STRider (STR for Identity ENFSI Reference Database)
RKL2EV-5876	Item 3 - Alleged Father A	3.9E10		NIST-STRBASE
RLJAMF-5871	Item 3 - Alleged Father A	1135725	99.99	NIST-STRBASE
RY6NNT-5871	Item 3 - Alleged Father A	3.958 billion	99.99%	FBI PopStats
T33MEC-5876	Item 3 - Alleged Father A	124607703572.6600	99.9999%	NIST-STRBASE
U6KALP-5876	Item 3 - Alleged Father A	19110000000	99.999999994767	NIST-STRBASE
V3E7AU-5871	Item 3 - Alleged Father A	4,61E10	99,99999999%	[Location Identifying Database]
VJYW9T-5871	Item 3 - Alleged Father A	45 523 260 617	99.999999997%	STRideR2.0

TABLE 5 - Paternity DNA Statistics & Conclusions

WebCode-Test	Chosen Biological Father	Combined Paternity Index	Probability of Paternity	Population Database Used
WDD28P-5871	Item 3 - Alleged Father A	3.958 billion	99.99%	FBI PopStats
WGCC3P-5871	Item 3 - Alleged Father A	3,958,000,000	Greater than 99.99%	FBI PopStats
WL4MDM-5876	Item 3 - Alleged Father A	1.05e10	99.99999999%	laboratory specific database
X4JDPR-5876	Item 3 - Alleged Father A	2043251.2754	99.9999%	NIST-STRBASE
XD873A-5871	Item 3 - Alleged Father A	14,802,000,000	99.99999999%	PROMEGA/NIST
XDAXUP-5876	Item 3 - Alleged Father A	1.8 Billion		NIST-STRBASE
YCVQ99-5871	Item 3 - Alleged Father A	56374155551.90	0.99	In-house population based database
YQR9WL-5876	Item 3 - Alleged Father A	62240000000	99.999999998393	FBI PopStats
ZCM7WP-5876	Item 3 - Alleged Father A	2.4e6	99.99996%	Caucasian
ZGG7BK-5876	Item 3 - Alleged Father A			FBI PopStats

Paternity DNA Statistics Response Summary	Participants: 70
Which of the alleged fathers cannot be excluded as the biological parent of Item 2?	
Responses Item 3 - Alleged Father A	70
Item 4 - Alleged Father B	0
Inconclusive	0
No Response	0

Kinship Likelihood Ratio Results

TABLE 6

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D1S1656	2RVH2M-5871	1/4p	p=12	2.150
	4FXH62-5871	0.25/p	p=12	2.1496
	6XAPRH-5876	*		2.0382
	7UM6LD-5871	1/4p	p = 12	2.1496
	8CQN6U-5871	0.5/p	p=12	4.29
	8LPY6H-5871	0.25/p	12	2.1496
	8U7X7V-5871	1/4q	q=12	2.14961307
	9YBQ8W-5876	1/4p	p = 12	2.149
	B3KQE9-5871	1/4p	p = 12	2.149
	BC8P7D-5876	1/4p	p=12	2.149
	C6QDRD-5871	1/4p	p=12	2.1496
	D4PXV7-5871	5	p=12	2.150
	DHADX7-5871	1/4p	p = 12	2.1496
	DLANU6-5876	0.25/a	a=0.1163	2.1496
	DRA76B-5871	1/4a	A=12	2.150
	G9CL49-5876	1/4p	p=12	2.1496
	GGKJM7-5876	1/(4*p)	12	2.15
	GN4LV9-5871	1/4p	p=0.1163	2.1496
	KVVZ96-5876	1/4q	q = 12	2.14961307
	LFEM7X-5871	1/4p	p = 12	2.1496
	LH27B2-5876			2.038
	NN844D-5871	0.25/a	a = 12	2.150
	NWCL7W-5871	1/4p	p = 12	2.1496
	PEQH2F-5871	1/4p	p=12	2.1496
	PZ73XG-5876	1/4p	p=12	2.150
	QHQTXF-5871	1/(4*P)	P=0.1163	2.150
	R6AKAE-5871	1/4a	a = 0.1163	2.1496
	R6XQUE-5871	0.25/p	p = 12	2.1496
	RY6NNT-5871	1/4p	p=12	2.150
	T33MEC-5876	1/4p	p=12	2.1496
	V3E7AU-5871	1/4p	p=12 q=18.3 r=15.3	2.15
	VJYW9T-5871	1/4p	p=12	2.1496
	WDD28P-5871	1/4p	p=12	2.150
	WGCC3P-5871	1/4p	p=12	2.1496

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D1S1656	WL4MDM-5876	0.25/p	p=12	2.15
	X4JDPR-5876	1/4q	q=12	2.1496
	XD873A-5871	1/4p	p=12	2.1496
	XDAXUP-5876	*	*	2.038
Statistical Analysis Summary of D1S1656			**Likelihood Ratio Mode:**	**2.1496**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D2S1338	2RVH2M-5871	1/2p	p=19	4.149
	4FXH62-5871	0.5/p	p=19	4.1494
	6XAPRH-5876	*		3.6627
	7UM6LD-5871	1/2p	p = 19	4.1494
	8CQN6U-5871	0.5/p	p=19	4.14
	8LPY6H-5871	0.5/p	19	4.1494
	8U7X7V-5871	1/2q	q=19	4.149377593
	9YBQ8W-5876	1/2p	p=19	4.149
	B3KQE9-5871	1/2p	p = 19	4.149
	BC8P7D-5876	1/2p	p=19	4.149
	C6QDRD-5871	1/2p	p=19	4.1494
	D4PXV7-5871	2	p=19	4.149
	DHADX7-5871	1/2p	p = 19	4.1494
	DLANU6-5876	0.5/a	a=0.1205	4.1494
	DRA76B-5871	1/2a	A=19	4.149
	G9CL49-5876	1/2p	p=19	4.1494
	GGKJM7-5876	1/(2*p)	19	4.15
	GN4LV9-5871	1/2p	p=0.1205	4.1494
	KWZ96-5876	1/2q	q = 19	4.149377593
	LFEM7X-5871	1/2p	p = 19	4.1494
	LH27B2-5876			3.663
	NN844D-5871	0.50/a	a = 19	4.14
	NWCL7W-5871	1/2p	p = 19	4.1494
	PEQH2F-5871	1/2p	p=19	4.1494
	PZ73XG-5876	1/2p	p=19	4.149
	QHQTXF-5871	1/(2*P)	P=0.1205	4.149
	R6AKAE-5871	1/2a	a = 0.1205	4.1493
	R6XQUE-5871	0.5/p	p = 19	4.1494
	RY6NNT-5871	1/2p	p=19	4.149
	T33MEC-5876	1/2p	p=19	4.1494
	V3E7AU-5871	1/2p	p=19 q=26	4.15
	VJYW9T-5871	1/2p	p=19	4.1494
	WDD28P-5871	1/2p	p=19	4.149
	WGCC3P-5871	1/2p	p=19	4.1494
	WL4MDM-5876	0.5/p	p=19	4.15

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D2S1338	X4JDPR-5876	1/2q	q=19	4.149
	XD873A-5871	1/2p	p=19	4.1493
	XDAXUP-5876	*	*	3.663
Statistical Analysis Summary of D2S1338			**Likelihood Ratio Mode:**	**4.1494**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D2S441	2RVH2M-5871	1/4p	p=14	1.037
	4FXH62-5871	0.25/p	p=14	1.0373
	6XAPRH-5876	*		1.0266
	7UM6LD-5871	1/4q	q = 14	1.0373
	8CQN6U-5871	0.5/p	p=14	2.074
	8LPY6H-5871	0.25/p	14	1.0373
	8U7X7V-5871	1/4q	q=14	1.037344398
	9YBQ8W-5876	1/4p	p=14	1.037
	B3KQE9-5871	1/4q	q = 14	1.037
	BC8P7D-5876	1/4p	p=14	1.037
	C6QDRD-5871	1/4q	q=14	0.9346
	D4PXV7-5871	5	p=14	1.037
	DHADX7-5871	1/4p	p = 14	1.0373
	DLANU6-5876	0.25/a	a=0.2410	1.0373
	DRA76B-5871	1/4a	A=14	1.037
	G9CL49-5876	1/4p	p=14	1.0373
	GGKJM7-5876	1/(4*p)	14	1.04
	GN4LV9-5871	1/4p	p=0.2410	1.0373
	KWZ96-5876	1/4q	q = 14	1.037344398
	LFEM7X-5871	1/4p	p =14	1.0374
	LH27B2-5876			1.027
	NN844D-5871	0.25/a	a= 14	1.03
	NWCL7W-5871	1/4p	p = 14	1.0373
	PEQH2F-5871	1/4p	p=14	1.0373
	PZ73XG-5876	1/4p	p=14	1.037
	QHQTXF-5871	1/(4*R)	R=0.241	1.037
	R6AKAE-5871	1/4a	a = 0.2410	1.0373
	R6XQUE-5871	0.25/p	p = 14	1.0373
	RY6NNT-5871	1/4p	p=14	1.037
	T33MEC-5876	1/4p	p=14	1.0373
	V3E7AU-5871	1/4p	p=14 q=11.3 r=10	1.04
	VJYW9T-5871	1/4p	p=14	1.0373
	WDD28P-5871	1/4p	p=14	1.037
	WGCC3P-5871	1/4p	p=14	1.0373
	WL4MDM-5876	0.25/p	p=14	1.04

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D2S441	X4JDPR-5876	1/4q	q=14	1.0373
	XD873A-5871	1/4p	p=14	1.0373
	XDAXUP-5876	*	*	1.027
Statistical Analysis Summary of D2S441			**Likelihood Ratio Mode:**	**1.0373**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D3S1358	2RVH2M-5871	1/2p	p=17	2.375
	4FXH62-5871	0.5/p	p=17	2.3753
	6XAPRH-5876	*		2.2341
	7UM6LD-5871	1/2p	p= 17	2.3753
	8CQN6U-5871	1/p	p=17	4.75
	8LPY6H-5871	0.5/p	17	2.3753
	8U7X7V-5871	1/2q	q=17	2.375296912
	9YBQ8W-5876	1/2p	p=17	2.375
	B3KQE9-5871	1/2q	q = 17	2.375
	BC8P7D-5876	1/2p	p=17	2.375
	C6QDRD-5871	1/2p	p=17	2.3753
	D4PXV7-5871	3	p=17	2.375
	DHADX7-5871	1/2p	p = 17	2.3753
	DLANU6-5876	0.5/a	a=0.2105	2.3753
	DRA76B-5871	1/2a	A=17	2.375
	G9CL49-5876	1/2p	p=17	2.3753
	GGKJM7-5876	1/(2*p)	17	2.38
	GN4LV9-5871	1/2p	p=0.2105	2.3753
	KWZ96-5876	1/2q	q = 17	2.375296912
	LFEM7X-5871	1/2p	p = 17	2.3753
	LH27B2-5876			2.234
	NN844D-5871	0.50/a	a = 17	2.37
	NWCL7W-5871	1/2p	p = 17	2.3753
	PEQH2F-5871	1/2p	p=17	2.375
	PZ73XG-5876	1/2p	p=17	2.375
	QHQTXF-5871	1/(2*Q)	Q=0.2105	2.375
	R6AKAE-5871	1/2a	a = 0.2105	2.3752
	R6XQUE-5871	0.25/p	p = 17	2.3753
	RY6NNT-5871	1/2p	p=17	2.375
	T33MEC-5876	1/2p	p=17	2.3753
	V3E7AU-5871	1/2p	p=17 q=16	2.38
	VJYW9T-5871	1/2p	p=17	2.3753
	WDD28P-5871	1/2p	p=17	2.375
	WGCC3P-5871	1/2p	p=17	2.3753
	WL4MDM-5876	0.5/p	p=17	2.37

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D3S1358	X4JDPR-5876	1/2q	q=17	2.3752
	XD873A-5871	1/2p	p=17	2.3752
	XDAXUP-5876	*	*	2.234
Statistical Analysis Summary of D3S1358			**Likelihood Ratio Mode:**	**2.3753**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D5S818	2RVH2M-5871	1/4p	p=13	1.752
	4FXH62-5871	0.25/p	p=13	1.7519
	6XAPRH-5876	*		1.6866
	7UM6LD-5871	1/4q	q = 13	1.7519
	8CQN6U-5871	0.5/p	p=13	3.503
	8LPY6H-5871	0.25/p	13	1.7519
	8U7X7V-5871	1/4q	q=13	1.75192712
	9YBQ8W-5876	1/4p	p=13	1.751
	B3KQE9-5871	1/4q	q = 13	1.751
	BC8P7D-5876	1/4p	p=13	1.751
	C6QDRD-5871	1/4q	q=13	1.7519
	D4PXV7-5871	5	p=13	1.752
	DHADX7-5871	1/4p	p = 13	1.7519
	DLANU6-5876	0.25/a	a=0.1427	1.7519
	DRA76B-5871	1/4a	A=13	1.752
	G9CL49-5876	1/4p	p=13	1.7519
	GGKJM7-5876	1/(4*p)	13	1.75
	GN4LV9-5871	1/4p	p=0.1427	1.7519
	KWZ96-5876	1/4q	q = 13	1.75192712
	LFEM7X-5871	1/4p	p = 13	1.7519
	LH27B2-5876			1.687
	NN844D-5871	0.25/a	a = 13	1.752
	NWCL7W-5871	1/4p	p = 13	1.7519
	PEQH2F-5871	1/4p	p=13	1.7519
	PZ73XG-5876	1/4p	p=13	1.752
	QHQTXF-5871	1/(4*R)	R=0.1427	1.752
	R6AKAE-5871	1/4a	a = 0.1427	1.7519
	R6XQUE-5871	0.25/p	p = 13	1.7519
	RY6NNT-5871	1/4p	p=13	1.752
	T33MEC-5876	1/4p	p=13	1.7519
	V3E7AU-5871	1/4p	p=13 q=11 r=12	1.75
	VJYW9T-5871	1/4p	p=13	1.7519
	WDD28P-5871	1/4p	p=13	1.752
	WGCC3P-5871	1/4p	p=13	1.7519
	WL4MDM-5876	0.25/p	p=13	1.75

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D5S818	X4JDPR-5876	1/4q	q=13	1.7519
	XD873A-5871	1/4p	p=13	1.7519
	XDAXUP-5876	*	*	1.687
Statistical Analysis Summary of D5S818			**Likelihood Ratio Mode:**	**1.7519**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D7S820	2RVH2M-5871	1/4p	p=12	1.569
	4FXH62-5871	0.25/p	p=12	1.5694
	6XAPRH-5876	*		1.5213
	7UM6LD-5871	1/4q	q = 12	1.5694
	8CQN6U-5871	0.5/p	p=12	3.13
	8LPY6H-5871	0.25/p	12	1.5694
	8U7X7V-5871	1/4q	q=12	1.569365976
	9YBQ8W-5876	1/4p	p=12	1.569
	B3KQE9-5871	1/4q	q = 12	1.569
	BC8P7D-5876	1/4p	p=12	1.569
	C6QDRD-5871	1/4q	q=12	1.5694
	D4PXV7-5871	5	p=12	1.569
	DHADX7-5871	1/4p	p = 12	1.5694
	DLANU6-5876	0.25/a	a=0.1593	1.5694
	DRA76B-5871	1/4a	A=12	1.569
	G9CL49-5876	1/4p	p=12	1.5694
	GGKJM7-5876	1/(4*p)	12	1.57
	GN4LV9-5871	1/4p	p=0.1593	1.5694
	KWZ96-5876	1/4q	q = 12	1.569365976
	LFEM7X-5871	1/4p	p = 12	1.5694
	LH27B2-5876			1.521
	NN844D-5871	0.25/a	a = 12	1.56
	NWCL7W-5871	1/4p	p = 12	1.5694
	PEQH2F-5871	1/4p	p=12	1.5694
	PZ73XG-5876	1/4p	p=12	1.569
	QHQTXF-5871	1/(4*R)	R=0.1593	1.569
	R6AKAE-5871	1/4a	a = 0.1593	1.5693
	R6XQUE-5871	0.25/p	p = 12	1.5694
	RY6NNT-5871	1/4p	p=12	1.569
	T33MEC-5876	1/4p	p=12	1.5694
	V3E7AU-5871	1/4p	p=12 q=8 r=9	1.57
	VJYW9T-5871	1/4p	p=12	1.5694
	WDD28P-5871	1/4p	p=12	1.569
	WGCC3P-5871	1/4p	p=12	1.5694
	WL4MDM-5876	0.25/p	p=12	1.57

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D7S820	X4JDPR-5876	1/4q	q=12	1.5693
	XD873A-5871	1/4p	p=12	1.5693
	XDAXUP-5876	*	*	1.521
Statistical Analysis Summary of D7S820			**Likelihood Ratio Mode:**	**1.5694**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D8S1179	2RVH2M-5871	1/4p	p=12	1.492
	4FXH62-5871	0.25/p	p=12	1.4916
	6XAPRH-5876	*		1.4503
	7UM6LD-5871	1/4q	q = 12	1.4916
	8CQN6U-5871	0.5/p	p=12	2.983
	8LPY6H-5871	0.25/p	12	1.4916
	8U7X7V-5871	1/4q	q=12	1.491646778
	9YBQ8W-5876	1/4p	p=12	1.491
	B3KQE9-5871	1/4p	p = 12	1.491
	BC8P7D-5876	1/4p	p=12	1.491
	C6QDRD-5871	1/4q	q=12	1.4916
	D4PXV7-5871	5	p=12	1.492
	DHADX7-5871	1/4p	p = 12	1.4916
	DLANU6-5876	0.25/a	a=0.1676	1.4916
	DRA76B-5871	1/4a	A=12	1.492
	G9CL49-5876	1/4p	p=12	1.4916
	GGKJM7-5876	1/(4*p)	12	1.49
	GN4LV9-5871	1/4p	p=0.1676	1.4916
	KWZ96-5876	1/4q	q = 12	1.491646778
	LFEM7X-5871	1/4p	p = 12	1.4916
	LH27B2-5876			1.450
	NN844D-5871	0.25/a	a = 12	1.492
	NWCL7W-5871	1/4p	p = 12	1.4916
	PEQH2F-5871	1/4p	p=12	1.4916
	PZ73XG-5876	1/4p	p=12	1.492
	QHQTXF-5871	1/(4*Q)	Q=0.1676	1.492
	R6AKAE-5871	1/4a	a = 0.1676	1.4916
	R6XQUE-5871	0.25/p	p = 12	1.4916
	RY6NNT-5871	1/4p	p=12	1.492
	T33MEC-5876	1/4p	p=12	1.4916
	V3E7AU-5871	1/4p	p=12 q=13 r=11	1.49
	VJYW9T-5871	1/4p	p=12	1.4916
	WDD28P-5871	1/4p	p=12	1.492
	WGCC3P-5871	1/4p	p=12	1.4916
	WL4MDM-5876	0.25/p	p=12	1.49

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D8S1179	X4JDPR-5876	1/2q	q=12	1.4916
	XD873A-5871	1/4p	p=12	1.4916
	XDAXUP-5876	*	*	1.450
Statistical Analysis Summary of D8S1179			**Likelihood Ratio Mode:**	**1.4916**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D10S1248	2RVH2M-5871	(p+q)/4pq	p=13 q=15	2.084
	4FXH62-5871	p+q/4pq	p=13 q=15	2.0840
	6XAPRH-5876	*		2.0581
	7UM6LD-5871	(.5p+.5q)/2pq	p = 13 q = 15	2.0840
	8CQN6U-5871	0.25/2pq	p=13 q=15	2.066
	8LPY6H-5871	(p+q)/4pq	13,15	2.0840
	8U7X7V-5871	(p+q)/4pq	p=13 q=15	2.083979152
	9YBQ8W-5876	(p+q)/4pq	p=13 q=15	2.083
	B3KQE9-5871	(0.5p+0.5q)/2pq	p = 13 q = 15	2.084
	BC8P7D-5876	(p+q)/4pq	p=13 q=15	2.083
	C6QDRD-5871	(p+q)/4pq	p=13 q=15	2.0840
	D4PXV7-5871	4	p=13 q=15	2.084
	DHADX7-5871	(p+q)/4pq	p = 13 q = 15	2.0840
	DLANU6-5876	(a+b)/4ab	a=0.3075 b=0.1967	2.0840
	DRA76B-5871	(a+b)/4ab	A=13 B=15	2.084
	G9CL49-5876	(p+q)/4pq	p=13 q=15	2.0840
	GGKJM7-5876	(p+q)/(4*p*q)	p=13 q=15	2.08
	GN4LV9-5871	p+q/4pq	p=0.3075 q=0.1967	2.0840
	KWZ96-5876	(1/4p)+(1/4q)	p = 13 q = 15	2.083979152
	LFEM7X-5871	(p+q)/4pq	p = 15 q = 13	2.08398
	LH27B2-5876			2.058
	NN844D-5871	(a+b)/4ab	a = 13 b = 15	2.084
	NWCL7W-5871	(p+q)/(4pq)	p = 13 q = 15	2.0840
	PEQH2F-5871	(p+q)/4pq	p=13 q=15	2.0840
	PZ73XG-5876	(p+q)/4pq	p=13 q=15	2.084
	QHQTXF-5871	(P+Q)/(4*P*Q)	P=0.3075 Q=0.1967	2.084
	R6AKAE-5871	(a+b)/4ab	a = 0.3075 b = 0.1967	2.0839
	R6XQUE-5871	(p+q)/4pq	p = 13 q = 14	2.0840
	RY6NNT-5871	(p+q)/(4pq)	p=13 q=15	2.084
	T33MEC-5876	(p+q)/4pq	p=13 q=15	2.0840
	V3E7AU-5871	(p+q)/4pq	p=13 q=15	2.08
	VJYW9T-5871	(p+q)/4pq	p=13 q=15	2.0840
	WDD28P-5871	(p+q)/(4pq)	p=13 q=15	2.084
	WGCC3P-5871	(p+q)/(4pq)	p=13 q=15	2.0840
	WL4MDM-5876	(p+q)/4pq	p=13 q=15	2.08

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D10S1248	X4JDPR-5876	(p+q)/4(pq)	q=13 p=15	2.0843
	XD873A-5871	(p+q)/4pq	p=13 q=15	2.0839
	XDAXUP-5876	*	*	2.058
Statistical Analysis Summary of D10S1248			**Likelihood Ratio Mode:**	**2.0840**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D12S391	2RVH2M-5871	1/4p	p=21	1.941
	4FXH62-5871	0.25/p	p=21	1.9410
	6XAPRH-5876	*		
	7UM6LD-5871	1/4q	q = 21	1.9410
	8CQN6U-5871	0.5/p	p=21	3.88
	8LPY6H-5871	0.25/p	21	1.9410
	8U7X7V-5871	1/4q	q=21	1.940993789
	9YBQ8W-5876	1/4p	p=21	1.940
	B3KQE9-5871	1/4q	q = 21	1.941
	BC8P7D-5876	1/4p	p=21	1.940
	C6QDRD-5871	1/4q	q=21	1.9410
	D4PXV7-5871	5	p=21	1.941
	DHADX7-5871	1/4p	p = 21	1.9410
	DLANU6-5876	0.25/a	a=0.1288	1.9410
	DRA76B-5871	1/4a	A=21	1.941
	G9CL49-5876	1/4p	p=21	1.9410
	GGKJM7-5876	1/(4*p)	21	1.94
	GN4LV9-5871	1/4p	p=0.1288	1.9410
	KWZ96-5876	1/4q	q = 21	1.940993789
	LFEM7X-5871	1/4p	p = 21	1.94099
	NN844D-5871	0.25/a	a = 21	1.941
	NWCL7W-5871	1/4p	p = 21	1.9410
	PEQH2F-5871	1/4p	p=21	1.9410
	PZ73XG-5876	1/4p	p=21	1.941
	QHQTXF-5871	1/(4*R)	R=0.1288	1.941
	R6AKAE-5871	1/4a	a = 0.1288	1.9409
	R6XQUE-5871	0.25/p	p = 21	1.9410
	RY6NNT-5871	1/4p	p=21	1.941
	T33MEC-5876	1/4p	p=21	1.9410
	V3E7AU-5871	1/4p	p=21 q=17 r=20	1.94
	VJYW9T-5871	1/4p	p=21	1.9410
	WDD28P-5871	1/4p	p=21	1.941
	WGCC3P-5871	1/4p	p=21	1.9410
	WL4MDM-5876	0.25/p	p=21	1.94
	X4JDPR-5876	1/4q	q=21	1.9409

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D12S391	XD873A-5871	1/4p	p=21	1.9409
	XDAXUP-5876	*	Omitted	
Statistical Analysis Summary of D12S391			**Likelihood Ratio Mode:**	**1.9410**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D13S317	2RVH2M-5871	1/p	p=11	3.072
	4FXH62-5871	1/p	p=11	3.0722
	6XAPRH-5876	*		2.8981
	7UM6LD-5871	1/p	p = 11	3.0722
	8CQN6U-5871	1/p	p=11	3.072
	8LPY6H-5871	1/p	11,11	3.0722
	8U7X7V-5871	1/q	q=11	3.072196621
	9YBQ8W-5876	1/p	p=11	3.072
	B3KQE9-5871	1/p	p = 11	3.072
	BC8P7D-5876	1/p	p=11	3.072
	C6QDRD-5871	1/p	p=11	3.0722
	D4PXV7-5871	1	p=11	3.072
	DHADX7-5871	1/p	p = 11	3.0722
	DLANU6-5876	1/a	a=0.3255	3.0722
	DRA76B-5871	1/a	A=11	3.072
	G9CL49-5876	1/p	p=11	3.0722
	GGKJM7-5876	1/p	11	3.07
	GN4LV9-5871	1/p	p=0.3255	3.0722
	KWZ96-5876	1/q	q = 11	3.072196621
	LFEM7X-5871	1/p	p = 11	3.0722
	LH27B2-5876			2.898
	NN844D-5871	(a+b)/4ab	a = 11 b = 11	3.07
	NWCL7W-5871	1/p	p = 11	3.0722
	PEQH2F-5871	1/p	p=11	3.0722
	PZ73XG-5876	1/p	p=11	3.072
	QHQTXF-5871	1/(P)	P=0.3255	3.072
	R6AKAE-5871	1/a	a = 0.3255	3.0721
	R6XQUE-5871	1/p	p = 11	3.0722
	RY6NNT-5871	1/p	p=11	3.072
	T33MEC-5876	1/p	p=11	3.0722
	V3E7AU-5871	1/p	p=11	3.07
	VJYW9T-5871	1/p	p=11	3.0722
	WDD28P-5871	1/p	p=11	3.072
	WGCC3P-5871	1/p	p=11	3.0722
	WL4MDM-5876	1/p	p=11	3.07

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D13S317	X4JDPR-5876	1/q	q=11	3.0722
	XD873A-5871	1/p	p=11	3.0721
	XDAXUP-5876	*	*	2.898
Statistical Analysis Summary of D13S317			**Likelihood Ratio Mode:**	**3.0722**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D16S539	2RVH2M-5871	1/2p	p=11	1.590
	4FXH62-5871	0.5/p	p=11	1.5903
	6XAPRH-5876	*		1.5407
	7UM6LD-5871	1/2p	p = 11	1.5903
	8CQN6U-5871	0.5/p	p=11	1.590
	8LPY6H-5871	0.5/p	11	1.5903
	8U7X7V-5871	1/2q	q=11	1.590330789
	9YBQ8W-5876	1/2p	p=11	1.590
	B3KQE9-5871	1/2p	p = 11	1.590
	BC8P7D-5876	1/2p	p=11	1.590
	C6QDRD-5871	1/2p	p=11	1.5903
	D4PXV7-5871	3	p=11	1.590
	DHADX7-5871	1/2p	p = 11	1.5903
	DLANU6-5876	0.5/a	a=0.3144	1.5903
	DRA76B-5871	1/2a	A=11	1.590
	G9CL49-5876	1/2p	p=11	1.5903
	GGKJM7-5876	1/(2*p)	12	1.59
	GN4LV9-5871	1/2p	p=0.3144	1.5903
	KWZ96-5876	1/2q	q = 11	1.590330789
	LFEM7X-5871	1/2p	p = 11	1.5903
	LH27B2-5876			1.541
	NN844D-5871	0.50/a	a = 11	1.59
	NWCL7W-5871	1/2p	p = 11	1.5903
	PEQH2F-5871	1/2p	p=11	1.5903
	PZ73XG-5876	1/2p	p=11	1.590
	QHQTXF-5871	1/(2*P)	P=0.3144	1.590
	R6AKAE-5871	1/2a	a = 0.3144	1.5903
	R6XQUE-5871	0.5/p	p = 11	1.5903
	RY6NNT-5871	1/2p	p=11	1.590
	T33MEC-5876	1/2p	p=11	1.5903
	V3E7AU-5871	1/2p	p=11 q=12	1.59
	VJYW9T-5871	1/2p	p=11	1.5903
	WDD28P-5871	1/2p	p=11	1.590
	WGCC3P-5871	1/2p	p=11	1.5903
	WL4MDM-5876	0.5/p	p=11	1.59

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D16S539	X4JDPR-5876	1/2q	q=11	1.5903
	XD873A-5871	1/2p	p=11	1.5903
	XDAXUP-5876	*	*	1.541
Statistical Analysis Summary of D16S539			**Likelihood Ratio Mode:**	**1.5903**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D18S51	2RVH2M-5871	1/2p	p=14	3.723
	4FXH62-5871	0.5/p	p=14	3.7230
	6XAPRH-5876	*		3.3352
	7UM6LD-5871	1/2p	p = 14	3.7230
	8CQN6U-5871	1/p	p=14	7.44
	8LPY6H-5871	0.5/p	14	3.72301
	8U7X7V-5871	1/2q	q=14	3.723008191
	9YBQ8W-5876	1/2p	p=14	3.732
	B3KQE9-5871	1/2p	p = 14	3.723
	BC8P7D-5876	1/2p	p=14	3.723
	C6QDRD-5871	1/2p	p=14	3.7230
	D4PXV7-5871	2	p=14	3.723
	DHADX7-5871	1/2p	p = 14	3.7230
	DLANU6-5876	0.5/a	a=0.1343	3.7230
	DRA76B-5871	1/2a	A=14	3.723
	G9CL49-5876	1/2p	p=14	3.7230
	GGKJM7-5876	1/(2*p)	14	3.72
	GN4LV9-5871	1/2p	p=0.1343	3.7230
	KWZ96-5876	1/2q	q = 14	3.723008191
	LFEM7X-5871	1/2p	p = 14	3.723
	LH27B2-5876			3.335
	NN844D-5871	0.50/a	a = 14	3.72
	NWCL7W-5871	1/2p	p = 14	3.7230
	PEQH2F-5871	1/2p	p=14	3.7230
	PZ73XG-5876	1/2p	p=14	3.723
	QHQTXF-5871	1/(2*P)	P=0.1343	3.723
	R6AKAE-5871	1/2a	a = 0.1343	3.7230
	R6XQUE-5871	0.5/p	p = 14	3.7230
	RY6NNT-5871	1/2p	p=14	3.723
	T33MEC-5876	1/2p	p=14	3.7230
	V3E7AU-5871	1/2p	p=14 q=17	3.72
	VJYW9T-5871	1/2p	p=14	3.7230
	WDD28P-5871	1/2p	p=14	3.723
	WGCC3P-5871	1/2p	p=14	3.7230
	WL4MDM-5876	0.5/p	p=14	3.72

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D18S51	X4JDPR-5876	1/2q	q=14	3.7230
	XD873A-5871	1/2p	p=14	3.7230
	XDAXUP-5876	*	*	3.335
Statistical Analysis Summary of D18S51			**Likelihood Ratio Mode:**	**3.7230**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D19S433	2RVH2M-5871	(p+q)/4pq	p=13 q=16	5.383
	4FXH62-5871	p+q/4pq	p=13 q=16	5.3826
	6XAPRH-5876	*		4.8232
	7UM6LD-5871	(.5p+.5q)/2pq	p = 13 q = 16	5.3826
	8CQN6U-5871	0.25/2pq	p=13 q=16	8.636
	8LPY6H-5871	(p+q)/4pq	13,16	5.3826
	8U7X7V-5871	(p+q)/4pq	p=13 q=16	5.382570146
	9YBQ8W-5876	(p+q)/4pq	p=13 q=16	5.382
	B3KQE9-5871	(0.5p+0.5q)/2pq	p = 13 q = 16	5.382
	BC8P7D-5876	(p+q)/4pq	p=13 q=16	5.382
	C6QDRD-5871	(p+q)/4pq	p=13 q=16	10.8237
	D4PXV7-5871	4	p=13 q=16	5.383
	DHADX7-5871	(p+q)/4pq	p = 13 q = 16	5.3826
	DLANU6-5876	(a+b)/4ab	a=0.2548 b=0.0568	5.3826
	DRA76B-5871	(a+b)/4ab	A=13 B=16	5.383
	G9CL49-5876	(p+q)/4pq	p=13 q=16	5.3826
	GGKJM7-5876	(p+q)/(4*p*q)	p=13 q=16	5.38
	GN4LV9-5871	p+q/4pq	p=0.2548 q=0.0568	5.3826
	KWZ96-5876	(1/4p)+(1/4q)	p = 13 q = 16	5.382570146
	LFEM7X-5871	(p+q)/4pq	p = 13 q = 16	5.3826
	LH27B2-5876			4.823
	NN844D-5871	(a+b)/4ab	a = 13 b = 16	5.38
	NWCL7W-5871	(p+q)/(4pq)	p = 13 q = 16	5.3826
	PEQH2F-5871	(p+q)/4pq	p=13 q=16	5.3826
	PZ73XG-5876	(p+q)/4pq	p=13 q=16	5.383
	QHQTXF-5871	(P+Q)/(4*P*Q)	P=0.2548 Q=0.0568	5.383
	R6AKAE-5871	(a+b)/4ab	a = 0.2548 b = 0.0568	5.3825
	R6XQUE-5871	(p+q)/4pq	p = 13 q = 16	5.3826
	RY6NNT-5871	(p+q)/(4pq)	p=13 q=16	5.383
	T33MEC-5876	(p+q)/4pq	p=13 q=16	5.3826
	V3E7AU-5871	(p+q)/4pq	p=13 q=16	5.38
	VJYW9T-5871	(p+q)/4pq	p=13 q=16	5.3826
	WDD28P-5871	(p+q)/(4pq)	p=13 q=16	5.383
	WGCC3P-5871	(p+q)/(4pq)	p=13 q=16	5.3826
	WL4MDM-5876	(p+q)/4pq	p=13 q=16	5.38

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D19S433	X4JDPR-5876	(p+q)/4(pq)	q=13 p=16	5.3817
	XD873A-5871	(p+q)/4pq	p=13 q=16	5.3825
	XDAXUP-5876	*	*	4.823
Statistical Analysis Summary of D19S433			**Likelihood Ratio Mode:**	**5.3826**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D21S11	2RVH2M-5871	1/2p	p=28	3.139
	4FXH62-5871	0.5/p	p=28	3.1387
	6XAPRH-5876	*		2.8724
	7UM6LD-5871	1/2p	p = 28	3.1387
	8CQN6U-5871	1/p	p=28	6.277
	8LPY6H-5871	0.5/p	28	3.1387
	8U7X7V-5871	1/2q	q=28	3.138731952
	9YBQ8W-5876	1/2p	p=28	3.138
	B3KQE9-5871	1/2p	p = 28	3.138
	BC8P7D-5876	1/2p	p=28	3.138
	C6QDRD-5871	1/2p	p=28	3.1387
	D4PXV7-5871	2	p=28	3.139
	DHADX7-5871	1/2p	p = 28	3.1387
	DLANU6-5876	0.5/a	a=0.1593	3.1387
	DRA76B-5871	1/2a	A=28	3.139
	G9CL49-5876	1/2p	p=28	3.1387
	GGKJM7-5876	1/(2*p)	28	3.14
	GN4LV9-5871	1/2p	p=0.1593	3.1387
	KWZ96-5876	1/2q	q = 28	3.138731952
	LFEM7X-5871	1/2p	p = 28	3.1387
	LH27B2-5876			2.872
	NN844D-5871	0.50/a	a = 28	3.139
	NWCL7W-5871	1/2p	p = 28	3.1387
	PEQH2F-5871	1/2p	p=28	3.1387
	PZ73XG-5876	1/2p	p=28	3.139
	QHQTXF-5871	1/(2*P)	P=0.1593	3.139
	R6AKAE-5871	1/2a	a = 0.1593	3.1387
	R6XQUE-5871	0.5/p	p = 28	3.1387
	RY6NNT-5871	1/2p	p=28	3.139
	T33MEC-5876	1/2p	p=28	3.1387
	V3E7AU-5871	1/2p	p=28 q=29	3.14
	VJYW9T-5871	1/2p	p=28	3.1387
	WDD28P-5871	1/2p	p=28	3.139
	WGCC3P-5871	1/2p	p=28	3.1387
	WL4MDM-5876	0.5/p	p=28	3.14

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D21S11	X4JDPR-5876	1/2q	q=28	3.1387
	XD873A-5871	1/2p	p=28	3.1387
	XDAXUP-5876	*	*	2.872
Statistical Analysis Summary of D21S11			**Likelihood Ratio Mode:**	**3.1387**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D22S1045	2RVH2M-5871	1/4p	p=11	1.787
	4FXH62-5871	0.25/p	p=11	1.7870
	6XAPRH-5876	*		1.7175
	7UM6LD-5871	1/4p	p = 11	1.7870
	8CQN6U-5871	0.5/p	p=11	3.57
	8LPY6H-5871	0.25/p	11	1.7870
	8U7X7V-5871	1/4q	q=11	1.786990708
	9YBQ8W-5876	1/4p	p=11	1.786
	B3KQE9-5871	1/4p	p = 11	1.787
	BC8P7D-5876	1/4p	p=11	1.786
	C6QDRD-5871	1/4p	p=11	1.7870
	D4PXV7-5871	5	p=11	1.787
	DHADX7-5871	1/4p	p = 11	1.7870
	DLANU6-5876	0.25/a	a=0.1399	1.7870
	DRA76B-5871	1/4a	A=11	1.787
	G9CL49-5876	1/4p	p=11	1.7870
	GGKJM7-5876	1/(4*p)	11	1.79
	GN4LV9-5871	1/4p	p=0.1399	1.7870
	KWZ96-5876	1/4q	q = 11	1.786990708
	LFEM7X-5871	1/4p	p = 11	1.78699
	LH27B2-5876			1.718
	NN844D-5871	0.25/a	a = 11	1.787
	NWCL7W-5871	1/4p	p = 11	1.7870
	PEQH2F-5871	1/4p	p=11	1.7870
	PZ73XG-5876	1/4p	p=11	1.787
	QHQTXF-5871	1/(4*P)	P=0.1399	1.787
	R6AKAE-5871	1/4a	a = 0.1399	1.7869
	R6XQUE-5871	0.25/p	p = 11	1.7870
	RY6NNT-5871	1/4p	p=11	1.787
	T33MEC-5876	1/4p	p=11	1.7870
	V3E7AU-5871	1/4p	p=11 q=15 r=16	1.79
	VJYW9T-5871	1/4p	p=11	1.7870
	WDD28P-5871	1/4p	p=11	1.787
	WGCC3P-5871	1/4p	p=11	1.7870
	WL4MDM-5876	0.25/p	p=11	1.79

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
D22S1045	X4JDPR-5876	1/4q	q=11	1.7869
	XD873A-5871	1/4p	p=11	1.7869
	XDAXUP-5876	*	*	1.718
Statistical Analysis Summary of D22S1045			**Likelihood Ratio Mode:**	**1.7870**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
CSF1PO	2RVH2M-5871	1/2p	p=10	2.271
	4FXH62-5871	0.5/p	p=10	2.2707
	6XAPRH-5876	*		2.1436
	7UM6LD-5871	1/2p	p = 10	2.2707
	8CQN6U-5871	1/p	p=10	4.54
	8LPY6H-5871	0.5/p	10	2.2707
	8U7X7V-5871	1/2q	q=10	2.270663034
	9YBQ8W-5876	1/2p	p=10	2.270
	B3KQE9-5871	1/2p	p = 10	2.270
	BC8P7D-5876	1/2p	p=10	2.270
	C6QDRD-5871	1/2p	p=10	2.2707
	D4PXV7-5871	2	p=10	2.271
	DHADX7-5871	1/2p	p = 10	2.2707
	DLANU6-5876	0.5/a	a=0.2202	2.2707
	DRA76B-5871	1/2a	A=10	2.271
	G9CL49-5876	1/2p	p=10	2.2707
	GGKJM7-5876	1/(2*p)	10	2.27
	GN4LV9-5871	1/2p	p=0.2202	2.2707
	KWZ96-5876	1/2q	q = 10	2.270663034
	LFEM7X-5871	1/2p	p = 10	2.2707
	LH27B2-5876			2.144
	NN844D-5871	0.50/a	a = 10	2.271
	NWCL7W-5871	1/2p	p = 10	2.2707
	PEQH2F-5871	1/2p	p=10	2.2707
	PZ73XG-5876	1/2p	p=10	2.271
	QHQTXF-5871	1/(2*P)	P=0.2202	2.271
	R6AKAE-5871	1/2a	a = 0.2202	2.2706
	R6XQUE-5871	0.5/p	p = 10	2.2707
	RY6NNT-5871	1/2p	p=10	2.271
	T33MEC-5876	1/2p	p=10	2.2707
	V3E7AU-5871	1/2p	p=10 q=13	2.27
	VJYW9T-5871	1/2p	p=10	2.2707
	WDD28P-5871	1/2p	p=10	2.271
	WGCC3P-5871	1/2p	p=10	2.2707
	WL4MDM-5876	0.5/p	p=10	2.27

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
CSF1PO	X4JDPR-5876	1/2q	q=10	2.2707
	XD873A-5871	1/2p	p=10	2.2706
	XDAXUP-5876	*	*	2.144
Statistical Analysis Summary of CSF1PO			**Likelihood Ratio Mode:**	**2.2707**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
FGA	2RVH2M-5871	1/4p	p=20	2.028
	4FXH62-5871	0.25/p	p=20	2.0276
	6XAPRH-5876	*		1.9323
	7UM6LD-5871	1/4p	p = 20	2.0276
	8CQN6U-5871	0.5/p	p=20	4.05
	8LPY6H-5871	0.25/p	20	2.0276
	8U7X7V-5871	1/4q	q=20	2.02757502
	9YBQ8W-5876	1/4p	p=20	2.027
	B3KQE9-5871	1/4p	p = 20	2.027
	BC8P7D-5876	1/4p	p=20	2.027
	C6QDRD-5871	1/4p	p=20	2.2076
	D4PXV7-5871	5	p=20	2.028
	DHADX7-5871	1/4p	p = 20	2.0276
	DLANU6-5876	0.25/a	a=0.1233	2.0276
	DRA76B-5871	1/4a	A=20	2.028
	G9CL49-5876	1/4p	p=20	2.0276
	GGKJM7-5876	1/(4*p)	20	2.03
	GN4LV9-5871	1/4p	p=0.1233	2.0276
	KWZ96-5876	1/4q	q = 20	2.02757502
	LFEM7X-5871	1/4p	p = 20	2.0276
	LH27B2-5876			1.932
	NN844D-5871	0.25/a	a = 20	2.02
	NWCL7W-5871	1/4p	p = 20	2.0276
	PEQH2F-5871	1/4p	p=20	2.0276
	PZ73XG-5876	1/4p	p=20	2.028
	QHQTXF-5871	1/(4*P)	P=0.1233	2.028
	R6AKAE-5871	1/4a	a = 0.1233	2.0275
	R6XQUE-5871	0.25/p	p = 20	2.0276
	RY6NNT-5871	1/4p	p=20	2.028
	T33MEC-5876	1/4p	p=20	2.0276
	V3E7AU-5871	1/4p	p=20 q=22.2 r=23	2.03
	VJYW9T-5871	1/4p	p=20	2.0276
	WDD28P-5871	1/4p	p=20	2.028
	WGCC3P-5871	1/4p	p=20	2.0276
	WL4MDM-5876	0.25/p	p=20	2.03

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
FGA	X4JDPR-5876	1/4q	q=20	2.0275
	XD873A-5871	1/4p	p=20	2.0275
	XDAXUP-5876	*	*	1.932
Statistical Analysis Summary of FGA			**Likelihood Ratio Mode:**	**2.0276**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
PentaD	2RVH2M-5871	1/2p	p=12	2.149
	4FXH62-5871	0.5/p	p=12	2.1487
	6XAPRH-5876	*		
	7UM6LD-5871	1/2q	q = 12	2.1487
	8CQN6U-5871	1/p	p=12	4.297
	8LPY6H-5871	0.5/p	12	2.1487
	8U7X7V-5871	1/2q	q=12	2.1486893
	9YBQ8W-5876	1/2p	p=12	2.148
	B3KQE9-5871	1/2q	q = 12	2.148
	BC8P7D-5876	1/2p	p=12	2.148
	C6QDRD-5871	1/2q	q=12	2.1487
	D4PXV7-5871	2	p=12	2.149
	DHADX7-5871	1/2p	p = 12	2.1487
	DLANU6-5876	0.5/a	a=0.2327	2.1487
	DRA76B-5871	1/2a	A=12	2.149
	G9CL49-5876	1/2p	p=12	2.1487
	GGKJM7-5876	1/(2*p)	12	2.15
	GN4LV9-5871	1/2p	p=0.2327	2.1487
	KWZ96-5876	1/2q	q = 12	2.1486893
	LFEM7X-5871	1/2p	p = 12	2.1487
	NN844D-5871	0.50/a	a = 12	2.149
	NWCL7W-5871	1/2p	p = 12	2.1487
	PEQH2F-5871	1/2p	p=12	2.1487
	PZ73XG-5876	1/2p	p=12	2.149
	QHQTXF-5871	1/(2*Q)	Q=0.2327	2.149
	R6AKAE-5871	1/2a	a = 0.2327	2.1486
	R6XQUE-5871	0.5/p	p = 12	2.1487
	RY6NNT-5871	1/2p	p=12	2.149
	T33MEC-5876	1/2p	p=12	2.1487
	V3E7AU-5871	1/2p	p=12 q=9	2.15
	VJYW9T-5871	1/2p	p=12	2.1487
	WDD28P-5871	1/2p	p=12	2.149
	WGCC3P-5871	1/2p	p=12	2.1487
	WL4MDM-5876	0.5/p	p=12	2.15
	X4JDPR-5876	1/2q	q=12	2.1487

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
PentaD	XD873A-5871	1/2p	p=12	2.1486
	XDAXUP-5876	N/A	N/A	
Statistical Analysis Summary of PentaD			**Likelihood Ratio Mode:**	**2.1487**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
PentaE	2RVH2M-5871	1/2p	p=13	5.821
	4FXH62-5871	0.5/p	p=13	5.8207
	6XAPRH-5876	*		
	7UM6LD-5871	1/2p	p = 13	5.8207
	8CQN6U-5871	0.5/p	p=13	5.820
	8LPY6H-5871	0.5/p	13	5.8207
	8U7X7V-5871	1/2q	q=13	5.820721769
	9YBQ8W-5876	1/2p	p=13	5.820
	B3KQE9-5871	1/2q	q = 13	5.820
	BC8P7D-5876	1/2p	p=13	5.820
	C6QDRD-5871	1/2p	p=13	5.8207
	D4PXV7-5871	3	p=13	5.821
	DHADX7-5871	1/2p	p = 13	5.8207
	DLANU6-5876	0.5/a	a=0.0859	5.8207
	DRA76B-5871	1/2a	A=13	5.821
	G9CL49-5876	1/2p	p=13	5.8207
	GGKJM7-5876	1/(2*p)	13	5.82
	GN4LV9-5871	1/2p	p=0.0859	5.8207
	KWZ96-5876	1/2q	q = 13	5.820721769
	LFEM7X-5871	1/2p	p = 13	5.8207
	NN844D-5871	0.50/a	a = 13	5.82
	NWCL7W-5871	1/2p	p = 13	5.8207
	PEQH2F-5871	1/2p	p=13	5.8207
	PZ73XG-5876	1/2p	p=13	5.821
	QHQTXF-5871	1/(2*Q)	Q=0.0859	5.821
	R6AKAE-5871	1/2a	a = 0.0859	5.8207
	R6XQUE-5871	0.5/p	p = 13	5.8207
	RY6NNT-5871	1/2p	p=13	5.821
	T33MEC-5876	1/2p	p=13	5.8207
	V3E7AU-5871	1/2p	p=13 q=11	5.82
	VJYW9T-5871	1/2p	p=13	5.8207
	WDD28P-5871	1/2p	p=13	5.821
	WGCC3P-5871	1/2p	p=13	5.8207
	WL4MDM-5876	0.5/p	p=13	5.82
	X4JDPR-5876	1/2q	q=13	5.8207

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
PentaE	XD873A-5871	1/2p	p=13	5.8207
	XDAXUP-5876	N/A	N/A	
Statistical Analysis Summary of PentaE			**Likelihood Ratio Mode:**	**5.8207**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
SE33	2RVH2M-5871	1/4p	p=22.2	6.684
	4FXH62-5871	0.25/p	p=22.2	6.6845
	6XAPRH-5876	*		5.4248
	7UM6LD-5871	1/4q	q = 22.2	6.6845
	8CQN6U-5871	0.5/p	p=22.2	13.368
	8LPY6H-5871	0.25/p	22.2	6.6845
	8U7X7V-5871	1/4q	q=22.2	6.684491979
	9YBQ8W-5876	1/4p	p=22.2	6.684
	B3KQE9-5871	1/4p	p = 22.2	6.684
	BC8P7D-5876	1/4p	p=22.2	6.684
	C6QDRD-5871	1/4q	q=22.2	6.6845
	D4PXV7-5871	5	p=22.2	6.684
	DHADX7-5871	1/4p	p = 22.2	6.6845
	DLANU6-5876	0.25/a	a=0.0374	6.6845
	DRA76B-5871	1/4a	A=22.2	6.684
	G9CL49-5876	1/4p	p=22.2	6.6845
	GGKJM7-5876	1/(4*p)	22.2	6.68
	GN4LV9-5871	1/4p	p=0.0374	6.6845
	KWZ96-5876	1/4q	q = 22.2	6.684491979
	LFEM7X-5871	1/4p	p = 22.2	6.6845
	LH27B2-5876			5.425
	NN844D-5871	0.25/a	a = 22.2	6.68
	NWCL7W-5871	1/4p	p = 22.2	6.6845
	PEQH2F-5871	1/4p	p=22.2	6.6845
	PZ73XG-5876	1/4p	p=22.2	6.684
	QHQTXF-5871	1/(4*Q)	Q=0.0374	6.684
	R6AKAE-5871	1/4a	a = 0.0374	6.6844
	R6XQUE-5871	0.25/p	p = 22.2	6.6845
	RY6NNT-5871	1/4p	p=22.2	6.684
	T33MEC-5876	1/4p	p=22.2	6.6845
	V3E7AU-5871	1/4p	p=22.2 q=28.2 r=16	6.68
	VJYW9T-5871	1/4p	p=22.2	6.6845
	WDD28P-5871	1/4p	p=22.2	6.684
	WGCC3P-5871	1/4p	p=22.2	6.6845
	WL4MDM-5876	0.25/p	p=22.2	6.68

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
SE33	X4JDPR-5876	1/4q	q=22.2	6.6844
	XD873A-5871	1/4p	p=22.2	6.6844
	XDAXUP-5876	*	*	5.425
Statistical Analysis Summary of SE33			**Likelihood Ratio Mode:**	**6.6845**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
TH01	2RVH2M-5871	(p+q)/4pq	p=9 q=9.3	2.824
	4FXH62-5871	p+q/4pq	p=9 q=9.3	2.8239
	6XAPRH-5876	*		2.7195
	7UM6LD-5871	(.5p+.5q)/2pq	p = 9 q = 9.3	2.8239
	8CQN6U-5871	0.25/2pq	p=9 q=9.3	3.043
	8LPY6H-5871	(p+q)/4pq	9,9.3	2.8239
	8U7X7V-5871	(p+q)/4pq	p=9 q=9.3	2.823924188
	9YBQ8W-5876	(p+q)/4pq	p=9 q=9.3	2.823
	B3KQE9-5871	(0.5p+0.5q)/2pq	p = 9 q = 9.3	2.823
	BC8P7D-5876	(p+q)/4pq	p=9 q=9.3	2.823
	C6QDRD-5871	(p+q)/4pq	p=9 q=9.3	2.2932
	D4PXV7-5871	4	p=9 q=9.3	2.824
	DHADX7-5871	(p+q)/4pq	p = 9 q = 9.3	2.8239
	DLANU6-5876	(a+b)/4ab	a=0.1191 b=0.3449	2.8239
	DRA76B-5871	(a+b)/4ab	A=9 B=9.3	2.824
	G9CL49-5876	(p+q)/4pq	p=9 q=9.3	2.8239
	GGKJM7-5876	(p+q)/(4*p*q)	p=9 q=9.3	2.82
	GN4LV9-5871	p+q/4pq	p=0.1191 q=0.3449	2.8239
	KWZ96-5876	(1/4p)+(1/4q)	p = 9 q = 9.3	2.823924188
	LFEM7X-5871	(p+q)/4pq	p = 9 q = 9.3	2.8239
	LH27B2-5876			2.720
	NN844D-5871	(a+b)/4ab	a = 9 b = 9.3	2.824
	NWCL7W-5871	(p+q)/(4pq)	p = 9 q = 9.3	2.8239
	PEQH2F-5871	(p+q)/4pq	p=9 q=9.3	2.8239
	PZ73XG-5876	(p+q)/4pq	p=9 q=9.3	2.824
	QHQTXF-5871	(P+Q)/(4*P*Q)	P=0.1191 Q=0.3449	2.824
	R6AKAE-5871	(a+b)/4ab	a = 0.1191 b = 0.3449	2.8239
	R6XQUE-5871	(p+q)/4pq	p = 9 q = 9.3	2.8239
	RY6NNT-5871	(p+q)/(4pq)	p=9 q=9.3	2.824
	T33MEC-5876	(p+q)/4pq	p=9 q=9.3	2.8239
	V3E7AU-5871	(p+q)/4pq	p=9 q=9.3	2.82
	VJYW9T-5871	(p+q)/4pq	p=9 q=9.3	2.8239
	WDD28P-5871	(p+q)/(4pq)	p=9 q=9.3	2.824
	WGCC3P-5871	(p+q)/(4pq)	p=9 q=9.3	2.8239
	WL4MDM-5876	(p+q)/4pq	p=9 q=9.3	2.82

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
TH01	X4JDPR-5876	(p+q)/4(pq)	q=9 p=9.3	2.824
	XD873A-5871	(p+q)/4pq	p=9 q=9.3	2.8239
	XDAXUP-5876	*	*	2.720
Statistical Analysis Summary of TH01			**Likelihood Ratio Mode:**	**2.8239**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
TPOX	2RVH2M-5871	1/4p	p=12	6.010
	4FXH62-5871	0.25/p	p=12	6.0096
	6XAPRH-5876	*		4.9756
	7UM6LD-5871	1/4q	q = 12	6.0096
	8CQN6U-5871	0.5/p	p=12	12.019
	8LPY6H-5871	0.25/p	12	6.0096
	8U7X7V-5871	1/4q	q=12	6.009615385
	9YBQ8W-5876	1/4p	p=12	6.009
	B3KQE9-5871	1/4q	q = 12	6.009
	BC8P7D-5876	1/4p	p=12	6.009
	C6QDRD-5871	1/4q	q=12	6.0096
	D4PXV7-5871	5	p=12	6.010
	DHADX7-5871	1/4p	p = 12	6.0096
	DLANU6-5876	0.25/a	a=0.0416	6.0096
	DRA76B-5871	1/4a	A=12	6.010
	G9CL49-5876	1/4p	p=12	6.0096
	GGKJM7-5876	1/(4*p)	12	6.01
	GN4LV9-5871	1/4p	p=0.0416	6.0096
	KWZ96-5876	1/4q	q = 12	6.009615385
	LFEM7X-5871	1/4p	p = 12	6.0096
	LH27B2-5876			4.976
	NN844D-5871	0.25/a	a = 12	6.010
	NWCL7W-5871	1/4p	p = 12	6.0096
	PEQH2F-5871	1/4p	p=12	6.0096
	PZ73XG-5876	1/4p	p=12	6.010
	QHQTXF-5871	1/(4*R)	R=0.0416	6.010
	R6AKAE-5871	1/4a	a = 0.0416	6.00961
	R6XQUE-5871	0.25/p	p = 12	6.0096
	RY6NNT-5871	1/4p	p=12	6.010
	T33MEC-5876	1/4p	p=12	6.0096
	V3E7AU-5871	1/4p	p=12 q=10 r=11	6.01
	VJYW9T-5871	1/4p	p=12	6.0096
	WDD28P-5871	1/4p	p=12	6.010
	WGCC3P-5871	1/4p	p=12	6.0096
	WL4MDM-5876	0.25/p	p=12	6.01

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
TPOX	X4JDPR-5876	1/2q	q=12	6.0096
	XD873A-5871	1/4p	p=12	6.0096
	XDAXUP-5876	*	*	4.976
Statistical Analysis Summary of TPOX			**Likelihood Ratio Mode:**	**6.0096**

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
vWA	2RVH2M-5871	1/4p	p=16	1.245
	4FXH62-5871	0.25/p	p=16	1.2450
	6XAPRH-5876	*		1.2219
	7UM6LD-5871	1/4p	p = 16	1.2450
	8CQN6U-5871	0.5/p	p=16	2.49
	8LPY6H-5871	0.25/p	16	1.2450
	8U7X7V-5871	1/4q	q=16	1.24501992
	9YBQ8W-5876	1/4p	p=16	1.245
	B3KQE9-5871	1/4p	p = 16	1.245
	BC8P7D-5876	1/4p	p=16	1.245
	C6QDRD-5871	1/4p	p=16	1.2450
	D4PXV7-5871	5	p=16	1.245
	DHADX7-5871	1/4p	p = 16	1.2450
	DLANU6-5876	0.25/a	a=0.2008	1.2450
	DRA76B-5871	1/4a	A=16	1.245
	G9CL49-5876	1/4p	p=16	1.2450
	GGKJM7-5876	1/(4*p)	16	1.25
	GN4LV9-5871	1/4p	p=0.2008	1.2450
	KWZ96-5876	1/4q	q = 16	1.24501992
	LFEM7X-5871	1/4p	p = 16	1.2450
	LH27B2-5876			1.222
	NN844D-5871	0.25/a	a = 16	1.24
	NWCL7W-5871	1/4p	p = 16	1.2450
	PEQH2F-5871	1/4p	p=16	1.2450
	PZ73XG-5876	1/4p	p=16	1.245
	QHQTXF-5871	1/(4*P)	P=0.2008	1.245
	R6AKAE-5871	1/4a	a = 0.2008	1.2450
	R6XQUE-5871	0.25/p	p = 16	1.2450
	RY6NNT-5871	1/4p	p=16	1.245
	T33MEC-5876	1/4p	p=16	1.2450
	V3E7AU-5871	1/4p	p=16 q=18 r=19	1.25
	VJYW9T-5871	1/4p	p=16	1.2450
	WDD28P-5871	1/4p	p=16	1.245
	WGCC3P-5871	1/4p	p=16	1.2450
	WL4MDM-5876	0.25/p	p=16	1.24

TABLE 6 - Kinship Likelihood Ratio Results

Locus	WebCode-Test	Formula	Allele Legend	Likelihood Ratio
vWA	X4JDPR-5876	1/4q	q=16	1.2450
	XD873A-5871	1/4p	p=16	1.2450
	XDAXUP-5876	*	*	1.222
Statistical Analysis Summary of vWA			**Likelihood Ratio Mode:**	**1.2450**

Kinship DNA Statistics

Is the relationship of **Caucasian Father/Daughter** supported by the genetic evidence?

TABLE 7

WebCode-Test	Kinship Index	Claim Supported?
2RVH2M-5871	1628279998.956	Yes
4FXH62-5871	1,628,165,831.7612	Yes
6XAPRH-5876	17,000,000	Yes
7UM6LD-5871	1,628,000,000	Yes
8CQN6U-5871	1.80786E+14	Yes
8LPY6H-5871	1628279999	Yes
8U7X7V-5871	1628279999	Yes
9YBQ8W-5876	1622907450	Yes
B3KQE9-5871	1,628,000,000	Yes
BC8P7D-5876	99.99999994%	Yes
C6QDRD-5871	2,395,532,556.5186	Yes
D4PXV7-5871	63 million	Yes
DHADX7-5871	1.31e9	Yes
DLANU6-5876	838889855.4619	Yes
DRA76B-5871	1628279999	Yes
G9CL49-5876	1,628,000,000	Yes
GGKJM7-5876	1628279999	Yes
GN4LV9-5871	1628279998.9555	Yes
KVVZ96-5876	1.6283E+09	Yes
LFEM7X-5871	1,600,000,000	Yes
LH27B2-5876	17 Million	Yes
NN844D-5871	1,584,225,299.2694	Yes
NWCL7W-5871	1.628 billion	Yes
PEQH2F-5871	1.6 billion	Yes
PZ73XG-5876	1.63E+09	Yes
QHQTXF-5871	1628279999	Yes
R6AKAE-5871	1,627,368,686	Yes
R6XQUE-5871	1,628,165,831.76	Yes
RY6NNT-5871	1.629 billion	Yes

TABLE 7 - Kinship DNA Statistics

WebCode-Test	Kinship Index	Claim Supported?
T33MEC-5876	1.6283 E+09	Yes
V3E7AU-5871	1.6e9	Yes
VJYW9T-5871	1 628 279 999	Yes
WDD28P-5871	1.629 billion	Yes
WGCC3P-5871	1,628,000,000	Yes
WL4MDM-5876	1.614.751.655,00 (1.6e9)	Yes
X4JDPR-5876	1627576781.32616	Yes
XD873A-5871	1,627,365,978	Yes
XDAXUP-5876	17 million	Yes

Response Summary	Participants: 38
Is the relationship claim of Caucasian Father/Daughter supported?	
Yes	38
No	0
Inconclusive	0

Additional Kinship Statistical Results

TABLE 8

WebCode-Test	Additional Statistical Results and Relationship Conclusions
6XAPRH-5876	*The likelihood ratios were calculated with KInCALc software that used the standard formulae for simple PI's and 2-person KI's that incorporate a theta value of 0.01 with allele probabilities with no rounding and a 1/k prior instead of x/N. The KInCALc software uses the NIST STRBase Population Database. Only one of the vWA/D12S391 loci were used to calculate the combined KI, due to genetic linkage between these two loci. For this scenario, D12S391 was omitted. [Laboratory] does not test for or report Penta D and Penta E loci, therefore those loci were not reported.
7UM6LD-5871	AUTOSOMAL STRs: The DNA profile is single source. The kinship index supports the hypothesis that Daughter is the child of Father using the reference populations listed. The genotype observed for Daughter is "X" times more likely to occur in a child of Father than in someone unrelated to Father from the reference populations listed where "X" equals: African American – 52 BILLION, Caucasian – 120 MILLION, Hispanic – 4.8 BILLION.
B3KQE9-5871	AUTOSOMAL STRs: The DNA profile is single source. The kinship index supports the hypothesis that Profile B is the daughter of Profile A using the reference populations listed. The genotype observed for Profile B is "X" times more likely to occur in a daughter of Profile A than in someone unrelated to Profile A from the reference populations listed where "X" equals: African American – 880 BILLION, Caucasian – 1.3 BILLION, Hispanic – 80 BILLION. The reported statistic on the CTS Forensic Testing Program includes the loci Penta E and Penta D and is based on the NIST population database. This differs from our laboratory, where our statistics are based on the Globalfiler loci (which excludes Penta E and Penta D) and uses the FBI Expanded population database.
D4PXV7-5871	Equation Key: where: Z0 = 0, Z1 = 1, Z2 = 0, Theta = 0. Formula 1: (Z2(1+theta)(1+2theta))/((2theta+(1-theta)p)(3theta+(1-theta)p))+(Z1(1+2theta))/((3theta+(1-theta)p))+Z0. Formula 2: Z1((1+2theta))/(2(2theta+(1-theta)p))+Z0. Formula 3: (Z1(1+2theta))/(2(2theta+(1-theta)p))+Z0. Formula 4: ([(2Z2(1+theta)+Z1(2theta+(1-theta)(p+q))](1+2theta))/(4(theta+(1-theta)p)(theta+(1-theta)q)))+Z0. Formula 5: (Z1(1+2theta))/(4(theta+(1-theta)p))+Z0.
DHADX7-5871	This provides extremely strong support that a parent/child relationship exists between the above individuals
DLANU6-5876	Kinship index calculated without D12 due to linkage disequilibrium with vWA.
DRA76B-5871	The laboratory's procedure for genetically linked loci D12S391 and vWA in parentage cases requires that one or the other is dropped from the analysis, generally the lower power of exclusion locus vWA. In this case, the vWA LR of 1.245 would be made 1.000 and a CLR of 1307834495 reported.
G9CL49-5876	The laboratory reports the three major ethnic group statistics in reports, regardless of the reported races of the individuals. Based on the reported ethnic group in this example, the kinship index result of a relationship of Father/ Daughter was supported.
GGKJM7-5876	The genetic evidence supports the hypothesis of paternity with a likelihood ratio (CPI) of 1628279999:1, indicating that it is 1628279999 times more likely that the tested man is the biological father than a random unrelated man from the same population.
GN4LV9-5871	Two DNA profiles from Caucasian Father/Daughter relationship were compared by using the allele frequencies assigned for the test loci. There are likely to be Father/Daughter relationship because probability of kinship index is greater than 99.99999993%
LH27B2-5876	The likelihood ratios were calculated with the KinCAlc software that uses the standard formulae for simple PI's and 2-person KI's that incorporate the theta value of 0.01 with allele probabilities with no rounding and a 1/k instead of x/N. The KinCALc software uses the NIST STRBase Population Database. Only one of the vWA/D12S391 loci were used to calculate the combined KI, due to linkage between these two loci. For this example D12S391 was omitted. [Laboratory] does not test for or report PentaD and PentaE loci, therefore those loci were not reported.

TABLE 8

WebCode-Test	Additional Statistical Results and Relationship Conclusions
NN844D-5871	It is important to clarify that since this result does not include an analysis of the genetic profile of one of the two parents, it is recommended that additional evidence be evaluated, considering that these biological link results may also be possible under the same hypotheses in relatives with close blood relationships
NWCL7W-5871	The shared results between Father and Daughter are 1.628 billion times more likely to be observed if Father was the biological parent rather than if they were unrelated.
QHQTXF-5871	Probability of Paternity = 99.99999994% (50% prior probability)
R6AKAE-5871	Father is 1.6 billion times more likely to produce a child with the required alleles than an unrelated man drawn randomly from the NIST Caucasian population. This equates to a Relative Chance of Paternity of 99.9999999385%. This means that the DNA results obtained do support the proposed relationship of parent-child.
R6XQUE-5871	Posterior prob. = (0.5)(CLR)/(0.5)(CLR)+(1-0.5) = 0.999999999386 = 99.9999999386%
RY6NNT-5871	Alleged Parent can be included as the biological parent of Child. The shared results between them are 1.629 billion times more likely to be observed if Alleged Parent was the biological parent rather than if they were unrelated.
VJYW9T-5871	The kindship index is in favor of a Caucasian Father / Daughter relationship rather than unrelated.
WDD28P-5871	The shared results between them are 1.629 billion times more likely to be observed if "Caucasian Father" was the biological father rather than if a randomly selected, unrelated male was the biological father.
WGCC3P-5871	The shared results between the Alleged Father and Daughter are 1.628 billion times more likely to be observed if Alleged Father was the biological parent rather than if they were unrelated.
XD873A-5871	The results of the DNA testing are 1,627,365,978 times more likely if the tested man is the biological father of the child than if the biological father is another man, unrelated to the tested man; having a probability of paternity of 99.9999999%
XDAXUP-5876	* The likelihood ratios shown above were calculated using the Kin CALc software that uses standard formulae for simple PI's and 2-person KI's that incorporate a theta value of 0.01 with allele probabilities with no rounding and a 1/k instead of x/N. The combined KI (Caucasian) shown above does not include D12S391. D12S391 was removed due to genetic linkage with vWA. The Penta D and Penta E loci were not calculated as these loci are not tested in this laboratory.

Additional Comments

TABLE 9

WebCode-Test	Additional Comments
6XAPRH-5876	NR = No Results. Part II [Table 5: Paternity DNA Statistics & Conclusions]: Paternity DNA Statistics: The KInCALc software was used to calculate the paternity indices using the standard formulae for simple PI's and 2-person KI's that incorporate a theta value of 0.01 with allele probabilities with no rounding and a 1/k prior instead of x/N. The KInCALc software uses the NIST STRBase Population Database. Only one of the vWA/D12S391 loci were used to calculate the combined KI, due to genetic linkage between the two loci. For this calculation, vWA was omitted, for Item 3. It was not omitted for Item 4 due to an exclusion. Our laboratory does not report the probability of paternity.
7D4EME-5876	NR= No Result. NT= Not Tested. Our laboratory does not calculate a Paternity Index. Per our SOP, we identify obligate alleles which are used to calculate a "Random Man Not Excluded" (RMNE) statistic. For this case, the obligate alleles were as follows: D3 (16), vWA (19), D16 (12), CSF (12), TPOX (8 or 9), D8 (15), D21 (29), D18 (17), D2S441 (14), D19 (14 or 15), TH01 (9.3), FGA (22), D22 (16), D5 (11), D13 (12), D7 (8), SE33 (26.2), D10 (15), D1 (15.3), D12 (21) and D2S1338 (23). RMNE report statement: The expected frequency of individuals who could be the father of Known Child is less than 1 in 6.2 billion in the general male population.
7EUFQG-5871	By policy, the laboratory does not report paternity statistics for exclusions.
7UM6LD-5871	PI values were not calculated or reported for Item 4 because Alleged father B was excluded. The additional statistics reported in the Kinship section were calculated using the FBI population data without Penta E and Penta D.
98NKKE-5876	The most conservative statistic (lowest PI or LR) is included in the report (Caucasian). The laboratory does not report out the probability of parentage (%). The laboratory does not do hand calculations for kinship statistics.
9XDHYD-5871	Laboratory does not provide statistics for exclusions.
AXT3LW-5871	Our laboratory does not record PI calculations or Kinship DNA statistics, as we use Rapid DNA and are not a conventional DNA laboratory.
B3KQE9-5871	No PI statistics added for item 4 as this individual was excluded. No statistics are calculated per laboratory protocol for individuals that are excluded.
D4PXV7-5871	Probability of Paternity not used in this laboratory. Combined paternity index is based solely on the autosomal data. Autosomal-STR and Y-STR results are not combined.
DHADX7-5871	vWA excluded from all calculations given possible linkage with D12S391.
DLANU6-5876	Combined Paternity Index calculated without D12 due to linkage disequilibrium with vWA.
DNV9YA-5876	PI is not calculated when an individual is excluded as the biological father of the offspring. The laboratory does not include the D12S391 locus when calculating statistics for related individuals. The laboratory does not calculate kinship statistics for Y-STR results, and the offspring is female in this proficiency test; therefore, Y-STR analysis was not performed.
EPNLY8-5876	Paternity Index values calculated via PopStats using NIST Caucasian database. Probability of Paternity not reported consistent with state law.
GK69CP-5871	NR = No Result. Item 2 was processed with the MiniFiler Kit. Results are concordant at overlapping PowerPlex Fusion for Item 2. Item 3 Results are concordant at DYS391 for PowerPlex Fusion and YFiler. Item 4 Results are concordant at DYS391 for PowerPlex Fusion and YFiler.
HM39M7-5876	SE33 not used for statistics in laboratory procedure

TABLE 9

WebCode-Test	Additional Comments
HWTUT4-5876	Combined Paternity Index value was calculated using the Caucasian database.
KWZ96-5876	The database used for the paternity statistics in the lab challenge, has been published in: AA Westen et al. Forensic Sci Int Genet 2014; 10: 55-63.
LFEM7X-5871	Paternity DNA calculation was done using local software that incorporates a minimum allele frequency, sub-population formula and a theta value of 0.02
LH27B2-5876	Part II [Table 5: Paternity DNA Statistics & Conclusions]; Paternity DNA Statistics: The KinCALc software was used to calculate the paternity indices using the standard formulae for simple PI's that incorporate a theta value of 0.01 with allele probabilities with no rounding and a 1/k instead of x/N. The KinCALc software uses the NIST STRBase Population Database. Only one of the vWA/D12S391 loci were used to calculate the combined KI, due to linkage between these two loci. For this example D12S391 was omitted. Our laboratory does not report the Probability of Paternity.
LZH6HK-5871	As observed during our sample analysis, the alleged father is for kinship relationship with a female child. According to our laboratory procedure, it is not necessary to obtain Y-Filer profile for this specific essay. Which is why we left it blank. With the provided information and after we obtained Item 1 profile (Known parent, hispanic mother) we can assume that the kinship relationship between Item 1 and the female child (Item 2) is biological mother-biological child; which is why ths statistics used for Paternity index in this essay includes both Item 1 and the alleged father A (Item 3) to obtain the Paternity Index (PI). Meaning, we use Item 1 (Known parent, mother) + Item 2 (child) + Item 3 (alleged father A) to obtain the complementary statistics records.
NWCL7W-5871	For Part II: Paternity DNA Statistics [Table 5: Paternity DNA Statistics & Conclusions], assuming prior probabilities of 10%, 50%, and 90%, the probability of paternity in this case is >99.99%. Per laboratory policy, the vWA locus was not used in the statistical calculation. For the locus and combined Paternity Index (CPI) values, our laboratory protocol is to report the smallest CPI calculated in Popstats of the selected population groups/ethnicities. Part III [Table 6 and Table 7]: The PopStats software was used to calculate the likelihood ratio values based on the NIST STRBASE database allele frequencies. The software uses locus specific, minimum allele frequencies that may result in different likelihood ratios being reported than if they were hand calculated using the frequencies provided in this test.
P8RXXZ-5876	SE33 locus not used for paternity DNA statistics at the [Laboratory]
Q3R9TX-5876	SE33 was not used for statistics as per laboratory protocol.
RLJAMF-5871	SYSTEM DYS576 IS UNSTABLE THE LABORATORY DOES NOT DO SIBSHIP.
RY6NNT-5871	Part II [Table 5: Paternity DNA Statistics & Conclusions]: For the locus and Combined Paternity Index values, our laboratory protocol is to report the smallest CPI calculated in PopStats of the selected population groups/ethnicities. Assuming prior probabilities of 10%, 50%, and 90%, the probability of paternity in this case is greater than 99.99%. The following locus was not used in the statistical calculation: vWA. Per laboratory policy, the vWA locus will not be used for statistical evaluations when complete profiles are used for kinship comparisons.
T33MEC-5876	STR loci reported are from a combination of GlobalFiler and VeriFiler Plus kits. Paternity index calculation was based on GlobalFiler, plus additional Penta D, Penta E. D6S1043 and D12S391 are excluded for paternity index calculation due to linkage.
V3E7AU-5871	In our laboratory we don't calculate PI for each locus separately, we only calculate and report CPI and/or probability of paternity and CKI (when applicable). We do that with Biostat and/or Familias software.

TABLE 9

WebCode-Test	Additional Comments
WDD28P-5871	For part II [Table 5: Paternity DNA Statistics & Conclusions], the locus vWA was not used in the statistical calculation. The probability of paternity was calculated assuming prior probabilities of 10%, 50% and 90%.
WGCC3P-5871	Part II [Table 5: Paternity DNA Statistics & Conclusions]: The locus vWA was not used in the statistical calculation. For the locus and combined paternity index values, our laboratory protocol is to report the smallest CPI calculated in FBI Popstats of the selected population groups/ethnicities. The probability of paternity was calculated assuming prior probabilities of 10%, 50% and 90%. Part III [Table 6 and Table 7]: The PopStats software was used to calculate the likelihood ratio values based on the NIST STRBASE database allele frequencies. The software uses locus specific, minimum allele frequencies that may result in different likelihood ratios being reported than if they were hand calculated using the frequencies provided in this test.
XD873A-5871	It was not necessary to perform YSTR analysis for this case, because de child is X,X. The frequencies used by the software DNAVIEW 37.35 are pre-loaded by Dr. Brenner.
XDAXUP-5876	The paternity indexes (PI) were calculated with the KinCalc software that uses standard formulae for simple PI's that incorporate a theta value of 0.01 with allele probabilities with no rounding and a 1/KI instead of just X/N. The KinCalc software uses the NIST STRBase population database. The combined KI (Caucasian) is only calculated to 2 significant figures by the KinCalc software and does not include the vWA locus. The vWA locus was removed due to linkage with the D12S391 locus.
ZGG7BK-5876	NT = Not Tested. NR = No Result. Our laboratory does not calculate a Paternity Index. Per our SOP, we identify obligate alleles which are used to calculate a "Random Man Not Excluded" (RMNE) statistic. For this case, the obligate alleles were as follows: D3 (16), vWA (19), D16 (12), CSF (12), TPOX (8,9), D8 (15), D21 (29), D18 (17), D2S441 (14), D19 (14,15), TH01 (9.3), FGA (22), D22 (16), D5 (11), D13 (12), D7 (8), SE33 (26.2), D10 (15), D1 (15.3), D12 (21), and D2S1338 (23). RMNE report statement: The expected frequency of individuals who could be the father of Known Child is less than 1 in 6.2 billion in the general male population.

-End of Report-
(Appendix may follow)

Collaborative Testing Services ~ Forensic Testing Program

Test No. 25-5871: DNA Parentage

DATA MUST BE SUBMITTED BY **July 28, 2025, 11:59 p.m. EDT** TO BE INCLUDED IN THE REPORT

Participant Code: U1234A WebCode: 9MWRGV

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, daughter, and two alleged fathers. Your laboratory is tasked with examining the blood standards and comparing the DNA profiles.

Items Submitted (Sample Pack DPF2 - FTA™ Micro Cards):
Item 1: Blood Sample from Known Parent (Caucasian Mother)
Item 2: Blood Sample from Known Child (Caucasian Daughter)
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 Paternity 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 for Item 2

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 Paternity Software used (if applicable):

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

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

Part I (continued): DNA Analysis for Item 3

Please refer to the 'Part II: Paternity DNA Statistics' section of this data sheet regarding the suggested Population Database(s) to use to determine PI values. Report a minimum of three significant figures in your PI values.

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 Paternity Software used (if applicable):

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

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

YSTR results are for proficiency concordance only.

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

☐ YFiler™ ☐ PowerPlex® Y Other

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

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

Part I (continued): DNA Analysis for Item 4

Please refer to the 'Part II: Paternity DNA Statistics' section of this data sheet regarding the suggested Population Database(s) to use to determine PI values. Report a minimum of three significant figures in your PI values.

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 Paternity Software used (if applicable):

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

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

YSTR results are for proficiency concordance only.

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

☐ YFiler™ ☐ PowerPlex® Y Other

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

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

Part I (continued): DNA Analysis - Additional DNA

- Use this section to report results for loci not currently listed in other sections of the data sheet.
- Report alleles in numerical order, separated by a comma.
- 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

1. Which alleged father cannot be excluded as the biological parent of the child (Item 2)?
   - ○ Item 3 - Alleged Father A
   - ○ Item 4 - Alleged Father B
   - ○ Neither - Both alleged fathers are excluded as being the biological parent of the child.

2. If applicable, calculate the Combined Paternity Index and the Probability of Paternity. For data submission purposes, CTS requests that you use the population database typically utilized in casework at your agency (e.g., FBI Popstats or NIST-STRBASE). If you are unable to use either of these databases, please indicate the other population database used.

2a. Choose a Population Database:

- ☐ FBI Popstats Population Database
- ☐ NIST-STRBASE Population Database

(Access this publicly available U.S. population data set at STRBASE. From there, select the hyperlink labeled "Revised allele frequencies file" under the title "Additional Information".)

Other Population Database: _____

2b. Record the Combined Paternity Index value: _____

2c. 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 17: 0.1053	15: 0.1053	(1+4p)/8p	p = 14	1.847

Scenario:

The two DNA profiles below are presented as a potential Caucasian Father/Daughter relationship. Using the allele frequencies shown for the tested loci, calculate the likelihood ratio for support of the proposed relationship versus being unrelated.

Locus	Father	Daughter	Allele Frequencies		Formula Used	Allele Legend	Likelihood Ratio
D1S1656	12,18.3	12,15.3	12: 0.1163 18.3: 0.0499	15.3: 0.0582			
D2S1338	19,19	19,26	19: 0.1205	26: 0.0305			
D2S441	11.3,14	10,14	10: 0.2105 14: 0.2410	11.3: 0.0609			
D3S1358	16,17	17,17	16: 0.2382	17: 0.2105			
D5S818	11,13	12,13	11: 0.3560 13: 0.1427	12: 0.3878			

Locus	Father	Daughter	Allele Frequencies		Formula Used	Allele Legend	Likelihood Ratio
D7S820	8,12	9,12	8: 0.1440	9: 0.1676			
			12: 0.1593				
D8S1179	12,13	11,12	11: 0.0762	12: 0.1676			
			13: 0.3296				
D10S1248	13,15	13,15	13: 0.3075	15: 0.1967			
D12S391	17,21	20,21	17: 0.1274	20: 0.1108			
			21: 0.1288				
D13S317	11,11	11,11	11: 0.3255				
D16S539	11,12	11,11	11: 0.3144	12: 0.3144			
D18S51	14,14	14,17	14: 0.1343	17: 0.1385			
D19S433	13,16	13,16	13: 0.2548	16: 0.0568			
D21S11	28,28	28,29	28: 0.1593	29: 0.2022			
D22S1045	11,15	11,16	11: 0.1399	15: 0.3213			
			16: 0.3823				

Test No. 25-5871 Data Sheet, continued

Participant Code: U1234A
WebCode: 9MWRGV

Locus	Father	Daughter	Allele Frequencies		Formula Used	Allele Legend	Likelihood Ratio
CSF1PO	10,10	10,13	10: 0.2202	13: 0.0817			
FGA	20,22.2	20,23	20: 0.1233	22.2: 0.0125			
			23: 0.1524				
PentaD	12,12	9,12	9: 0.2216	12: 0.2327			
PentaE	11,13	13,13	11: 0.0873	13: 0.0859			
SE33	22.2,28.2	16,22.2	16: 0.0402	22.2: 0.0374			
			28.2: 0.0762				
TH01	9,9.3	9,9.3	9: 0.1191	9.3: 0.3449			
TPOX	10,12	11,12	10: 0.0499	11: 0.2521			
			12: 0.0416				
vWA	16,18	16,19	16: 0.2008	18: 0.2022			
			19: 0.1039				

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

2. Is the relationship of Caucasian Father/Daughter supported by the genetic evidence?

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

Note: *Please use appropriate punctuation to indicate the end of sentences, sections, and statements in the free-form space below. Extra spacing and returns used for separation within your text will not transfer and may cause your information to be illegible in the Summary Report. The use of lists and tabular formats to deliver information is also cautioned against, as these do not transfer.*

Part IV: ADDITIONAL COMMENTS

Comments regarding any part of this Test.

Note: *Please use appropriate punctuation to indicate the end of sentences, sections, and statements in the free-form space below. Extra spacing and returns used for separation within your text will not transfer and may cause your information to be illegible in the Summary Report. The use of lists and tabular formats to deliver information is also cautioned against, as these do not transfer.*

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 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 ANAB and/or A2LA. (Accreditation Release section below must be completed.)
○ This participant's data is **not** intended for submission to 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.

A2LA Certificate No.

Step 2: Complete the Laboratory Identifying Information in its entirety

Authorized Contact Person and Title

Laboratory Name

Location (City/State)