



DNA - Mixture Test No. 15-581 Summary Report

This proficiency test was sent to 153 participants. Each participant received a sample pack consisting of two known bloodstains and two questioned stains which they were requested to analyze using their existing protocols. Data were returned from 145 participants (95% response rate) and are compiled into the following tables:

	<u>Page</u>
<u>Manufacturer's Information</u>	<u>2</u>
<u>Summary Comments</u>	<u>4</u>
<u>Table 1: Amplification Kit(s) & STR Results</u>	<u>5</u>
<u>Table 2: YSTR Results</u>	<u>90</u>
<u>Table 3: Additional DNA Results</u>	<u>126</u>
<u>Table 4: DNA Interpretations</u>	<u>127</u>
<u>Table 5: Additional Comments</u>	<u>131</u>
<u>Appendix: Data Sheet</u>	<u>134</u>

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

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

Manufacturer's Information

Each sample pack consisted of two known bloodstains on clean white cloth (Items 1 & 2), and two questioned stains one on clean, beige chevron patterned material (Item 3) and one on clean, plaid material (Item 4). Participants were requested to analyze these items using their existing protocols.

SAMPLE PREPARATION: The stains in Items 1, 2 and 4 were prepared from human whole blood which was either drawn into citric acid preservative bloodbank bags or EDTA tubes. Item 3 was a mixture prepared from human whole blood and semen. The semen, procured from a cryobank, was from a single donor, but stored frozen in multiple vials at -196° C in liquid nitrogen tanks. The semen was thawed and first mixed 1:1 with TAE buffer, then mixed 1:1 with the blood. This mixture was used to spot the Item 3 substrate. Item 1 (50 μ l) was blood collected from a female donor and Item 2 (50 μ l) was blood collected from a male donor. Item 4 was a mixture of blood from the Item 1 female donor and blood from the Item 2 male donor. Item 3 (50 μ l) was a mixture containing blood from the Item 1 female donor and semen from the Item 2 male donor. Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on January 7, 2015 following receipt of predistribution results.

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

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

Amelogenin and STR Results

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

Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
1	16,16	18,20	11,15	15,17	11,11	8,9
	14,15	16,16	17,18	9,12	9,12	14,20
	13,14	29,32.2	15,16	X,X	12,12	22,23
	10,14	8,8	24.2,25.2	7,9	8,12	18,18
2	15,17.3	17,19	11,11	14,17	11,12	7,9
	12,14	13,13	18,23	9,11	9,10	16,16
	14,15	28,30	11,16	X,Y	10,12	18,23
	11,11	7,12	16,18	6,8	8,11	17,19
3-Blood	16,16	18,20	11,15	15,17	11,11	8,9
	14,15	16,16	17,18	9,12	9,12	14,20
	13,14	29,32.2	15,16	X,X	12,12	22,23
	10,14	8,8	*	7,9	8,12	18,18
3-Semen	15,17.3	17,19	11,11	14,17	11,12	7,9
	12,14	13,13	18,23	9,11	9,10	16,16
	14,15	28,30	11,16	X,Y	10,12	18,23
	11,11	7,12	*	6,8	8,11	17,19
4	15,16,16,17.3	17,18,19,20	11,11,11,15	14,15,17,17	11,11,11,12	7,8,9,9
	12,14,14,15	13,13,16,16	17,18,18,23	9,9,11,12	9,9,10,12	14,16,16,20
	13,14,14,15	28,29,30,32.2	11,15,16,16	X,X,X,Y	10,12,12,12	18,22,23,23
	10,11,11,14	7,8,8,12	*	6,7,8,9	8,8,11,12	17,18,18,19

YSTR Results

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

Item	DYS19 DYS437 DYS549	DYS385 DYS438 DYS570	DYS389-I DYS439 DYS576	DYS389-II DYS448 DYS635	DYS390 DYS456 DYS643	DYS391 DYS458 Y GATA H4	DYS392 DYS481 Y Indel	DYS393 DYS533
2	14	11,14	12	28	24	11	13	13
	15	12	12	19	17	17	*	*
	*	*	*	23	*	12	*	
3-Semen	14	11,14	12	28	24	11	13	13
	15	12	12	19	17	17	*	*
	*	*	*	23	*	12	*	
4	14	11,14	12	28	24	11	13	13
	15	12	12	19	17	17	*	*
	*	*	*	23	*	12	*	

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

Summary Comments

The DNA-Mixture test is part of the DNA Sample Specific Series; where participants are advised of the body fluid(s) that make up the questioned stains. The test is designed to allow participants to assess their proficiency in the analysis of dried stains containing potential mixtures where screening has already been completed. Participants were supplied with two "known" bloodstains (Items 1 and 2) and two "questioned" stains (Items 3 and 4). Item 1 was blood collected from a female donor and Item 2 was blood collected from a male donor. Item 3 was a mixture containing blood from the Item 1 female donor and semen from the Item 2 male donor. Item 4 was a mixture of blood from the Item 1 female donor and blood from the Item 2 male donor. (See Manufacturer's Information for preparation details)

Of the 145 responding, 140 participants reported DNA interpretations. There were 138 participants that included the victim (Item 1) as a possible contributor to the Item 3 mixture and two that excluded the victim (Item 1). There were 139 participants that included the suspect (Item 2) as a possible contributor to the Item 3 mixture and one that excluded the suspect (Item 2). All participants included the victim (Item 1) and the suspect (Item 2) as possible contributors to the Item 4 mixture.

Twelve participants reported allelic results that differed from the consensus/predistribution results. Of these ten, five reported additional alleles at one or more loci and four were missing alleles at one or more loci. Three participants reported inconsistent alleles one or more loci.

Amelogenin & STR Results

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
246VXN	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12	22,23
					7,9	8,12	18
2BQLKJ	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
2DVA72	<i>PowerPlex® 16 HS</i>						
	1				15,17	11	8,9
		14,15			9,12	9,12	14,20
			29,32.2		X	12	22,23
		10,14	8		7,9	8,12	18
2EN6MH	<i>Identifiler®</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
2JJWUE	<i>Identifiler®</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
3E8D9R	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
3HKBGE	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12	22,23
					7,9	8,12	18
3UXFPV	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
3YVP44	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
48ETGV	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
4E2C66	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
4G6DLT	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
4NNE4R	<i>PowerPlex® ESI 16 IDX</i>						
	1	16,16	18,20	11,15	15,17	-	-
		14,15	16,16	17,18	-	9,12	14,20
		13,14	29,32.2	15,16	X,X	-	22,23
		-	-	-	7,9	-	18,18
4XTHDV	<i>Identifiler®</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
636PEZ	<i>PowerPlex® 21</i>						
	1	16,16	18,20		15,17	11,11	8,9
		14,15		17,18	9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
		10,14	8,8		7,9	8,12	18,18
69RK9C	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12	22,23
					7,9	8,12	18
6K4ZXW	<i>Identifiler®</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
7CMTQR	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
7LDAPU	<i>Identifiler®</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
7NH436	<i>PowerPlex® Fusion</i>						
	1	16	18,20	11,15	15,17	11	8,9
		14,15	16	17,18	9,12	9,12	14,20
		13,14	29,32.2	15,16	X	12	22,23
		10,14	8		7,9	8,12	18
7PW9YH	<i>Identifiler® Plus</i>						
	1	-	18,20	-	15,17	11	8,9
		14,15	-	-	9,12	9,12	14,20
		13,14	29,32.2	-	X,X	12	22,23
		-	-	-	7,9	8,12	18
7VGJUX	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
7ZQPNJ	<i>Identifiler®</i>						
	1	18,20			15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
8E7AJW	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
8QMRFA	<i>Identifiler® Plus</i>						
	1	-	18,20	-	15,17	11,11	8,9
		14,15	-	-	9,12	9,12	14,20
		13,14	29,32.2	-	X,X	12,12	22,23
		-	-	-	7,9	8,12	18,18
92D348	<i>Identifiler® Plus</i>						
	1	-	18,20	-	15,17	11	8,9
		14,15	-	-	9,12	9,12	14,20
		13,14	29,32.2	-	X,X	12	22,23
		-	-	-	7,9	8,12	18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
9MHHN6	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
9P4KDP	<i>Identifiler®</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
9W7GFA	<i>COfiler® and Profiler Plus®</i>						
	1				15,17	11,11	8,9
		14,15			9,12		14,20
			29,32.2		X,X		22,23
							18,18
AJDEC9	<i>COfiler® and Profiler Plus®</i>						
	1				15,17	11,11	8,9
		14,15			9,12		14,20
			29,32.2		X,X		22,23
							18,18
AUC4AW	<i>Identifiler®</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
AUWRP7	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12	22,23
					7,9	8,12	18
B3K2BL	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
B4FM3Q	<i>NGM-Select</i>						
	1	16,16	18,20	11,15	15,17		
		14,15	16,16	17,18		9,12	14,20
		13,14	29,32.2	15,16	X,X		22,23
				24.2,25.2	7,9		18,18
BA4AWW	<i>PowerPlex® 16</i>						
	1				15,17	11	8,9
		14,15			9,12	9,12	14,20
			29,32.2		X,X	12	22,23
		10,14	8		7,9	8,12	18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
BC798P	<i>PowerPlex® 16</i>						
	1				15,17	11	8,9
		14,15			9,12	9,12	14,20
			29,32.2		X,X	12	22,23
		10,14	8		7,9	8,12	18
BEGAVA	<i>PowerPlex® Fusion, ES1, CS7</i>						
	1	16	18,20	11,15	15,17	11	8,9
		14,15	16	17,18	9,12	9,12	14,20
		13,14	29,32.2	15,16	X	12	22,23
		10,14	8	24.2,25.2	7,9	8,12	18
BFBQEX	<i>Identifiler® Plus</i>						
	1		18,20		15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
BN42NT	<i>Identifiler® Plus</i>						
	1		18,20		15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
BYKT7B	<i>PowerPlex® Fusion</i>						
	1	16	18,20	11,15	15,17	11	8,9
		14,15	16	17,18	9,12	9,12	14,20
		13,14	29,32.2	15,16	X	12	22,23
		10,14	8		7,9	8,12	18
CEB9P2	<i>Identifiler®</i>						
	1		18,20		15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
CEVUF7	<i>COfiler® and Profiler Plus®</i>						
	1				15,17	11,11	8,9
		14,15			9,12		14,20
			29,32.2		X,X		22,23
							18,18
CMNA3P	<i>Identifiler®</i>						
	1		18,20		15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
CNX8HR	<i>PowerPlex® 21</i>						
	1	16,16	18,20		15,17	11,11	8,9
		14,15		17,18	9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
		10,14	8,8		7,9	8,12	18,18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
D8PMCM	<i>PowerPlex® 16</i>						
	1				15,17	11	8,9
	14,15				9,12	9,12	14,20
			29,32.2		X,X	12	22,23
	10,14		8		7,9	8,12	18
DCJJYT	<i>PowerPlex® 16</i>						
	1				15,17	11	8,9
	14,15				9,12	9,12	14,20
			29,32.2		X,X	12	22,23
	10,14		8		7,9	8,12	18
DFKHHY	<i>Identifiler®</i>						
	1		18,20		15,17	11,11	8,9
	14,15				9,12	9,12	14,20
	13,14		29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
DGDDYF	<i>Global Filer</i>						
	1	16	18,20	11,15	15,17	11	8,9
	14,15	16		17,18	9,12	9,12	14,20
	13,14		29,32.2	15,16	X	12	22,23
				24.2,25.2	7,9	8,12	18
DHLPDW	<i>PowerPlex® 16</i>						
	1				15,17	11	8,9
	14,15				9,12	9,12	14,20
			29,32.2		X,X	12	22,23
	10,14		8		7,9	8,12	18
E2FNHA	<i>PowerPlex® Fusion</i>						
	1	16	18,20	11,15	15,17	11	8,9
	14,15	16		17,18	9,12	9,12	14,20
	13,14		29,32.2	15,16	X	12	22,23
	10,14		8		7,9	8,12	18
E6X6BE	<i>Identifiler® Plus</i>						
	1		18,20		15,17	11	8,9
	14,15				9,12	9,12	14,20
	13,14		29,32.2		X	12	22,23
					7,9	8,12	18
ECDNTT	<i>PowerPlex® 16</i>						
	1				15,17	11	8,9
	14,15				9,12	9,12	14,20
			29,32.2		X,X	12	22,23
	10,14		8		7,9	8,12	18
EHKC9E	<i>Identifiler® Plus</i>						
	1		18,20		15,17	11	8,9
	14,15				9,12	9,12	14,20
	13,14		29,32.2		X	12	22,23
					7,9	8,12	18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
EMGUTL	<i>Identifiler®</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
EXH84U	<i>PowerPlex® 16</i>						
	1				15,17	11	8,9
		14,15			9,12	9,12	14,20
			29,32.2		X,X	12	22,23
		10,14	8		7,9	8,12	18
F3P6XK	<i>Identifiler®</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
F6ECGV	<i>Identifiler®</i>						
	1	18,20			15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
F6VTBP	<i>ESX16</i>						
	1	16	18,20	11,15	15,17		
		14,15	16	17,18		9,12	14,20
		13,14	29,32.2	15,16	X		22,23
					7,9		18
FBYJUJ	<i>PowerPlex® 16</i>						
	1				15,17	11	8,9
		14,15			9,12	9,12	14,20
			29,32.2		X,X	12	22,23
		10,14	8		7,9	8,12	18
FGRLZF	<i>Identifiler®</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
FNUN9L	<i>Identifiler®</i>						
	1	18,20			15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
FZHMZN	<i>PowerPlex® 21</i>						
	1	16,16	18,20		15,17	11,11	8,9
		14,15		17,18	9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
		10,14	8,8		7,9	8,12	18,18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
G2B2ZL	PowerPlex® 16 HS						
	1				15,17	11	8,9
	14,15				9,12	9,12	14,20
			29,32.2		X	12	22,23
	10,14		8		7,9	8,12	18
GAJHML	Identifiler® Plus						
	1		18,20		15,17	11,11	8,9
	14,15				9,12	9,12	14,20
	13,14		29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
GB2L6K	Identifiler® Identifiler Plus						
	1		18,20		15,17	11	8,9
	14,15				9,12	9,12	14,20
	13,14		29,32.2		X	12	22,23
					7,9	8,12	18
GDJN7X	Identifiler® Plus						
	1	-	18,20	-	15,17	11	8,9
	14,15		-	-	9,12	9,12	14,20
	13,14		29,32.2	-	X,X	12	22,23
	-		-	-	7,9	8,12	18
H4TPQC	Identifiler®						
	1		18,20		15,17	11	8,9
	14,15				9,12	9,12	14,20
	13,14		29,32.2		X	12	22,23
					7,9	8,12	18
HE8J4Q	PowerPlex® 16						
	1				15,17	11	8,9
	14,15				9,12	9,12	14,20
			29,32.2		X,X	12	22,23
	10,14		8		7,9	8,12	18
HKHPQP	Identifiler® Plus						
	1		18,20		15,17	11	8,9
	14,15				9,12	9,12	14,20
	13,14		29,32.2		X	12	22,23
					7,9	8,12	18
J6JZAH	Identifiler®						
	1		18,20		15,17	11	8,9
	14,15				9,12	9,12	14,20
	13,14		29,32.2		X	12	22,23
					7,9	8,12	18
J9JFCE	Identifiler® Plus						
	1		18,20		15,17	11	8,9
	14,15				9,12	9,12	14,20
	13,14		29,32.2		X	12	22,23
					7,9	8,12	18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
JNT6QZ	<i>Identifiler®</i>						
	1		18,20		15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
JRWTCB	<i>Identifiler®</i>						
	1		18,20		15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
JUMZUT	<i>Identifiler®</i>						
	1		18,20		15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
JUZQLP	<i>Identifiler® Plus, MiniFiler</i>						
	1		18,20		15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
KJGJDM	<i>PowerPlex® 16</i>						
	1				15,17	11	8,9
		14,15			9,12	9,12	14,20
			29,32.2		X,X	12	22,23
		10,14	8		7,9	8,12	18
KUG886	<i>PowerPlex®</i>						
	1	16	18,20	11,15	15,17	11	8,9
		14,15	16	17,18	9,12	9,12	14,20
		13,14	29,32.2	15,16	X	12	22,23
		10,14	8		7,9	8,12	18
KYC4UB	<i>Identifiler® Plus</i>						
	1		18,20		15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
L2BYT4	<i>Global Filer</i>						
	1	16	18,20	11,15	15,17	11	8,9
		14,15	16	17,18	9,12	9,12	14,20
		13,14	29,32.2	15,16	X	12	22,23
				24.2,25.2	7,9	8,12	18
L4Z6BF	<i>Identifiler®</i>						
	1		18,20		15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
L9EL7D	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12	22,23
					7,9	8,12	18
LHHVEN	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
LL3KY2	<i>PowerPlex® Fusion</i>						
	1	16	18,20	11,15	15,17	11	8,9
		14,15	16	17,18	9,12	9,12	14,20
		13,14	29,32.2	15,16	X	12	22,23
		10,14	8		7,9	8,12	18
LN92DK	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
LXV4D8	<i>NGM SE</i>						
	1	16,16	18,20	11,15	15,17		
		14,15	16,16	17,18		9,12	14,20
		13,14	29,32.2	15,16	X,X		22,23
				24.2,25.2	7,9		18,18
LYQP4C	<i>Identifiler® Identifiler Plus</i>						
	1	18,20			15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
LZYYWA	<i>Identifiler® Identifiler Plus</i>						
	1	18,20			15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
M3LZDH	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
M3YR6Y	<i>PowerPlex® ES16, In-house kit</i>						
	1	16	18,20	11,15	15,17		
		14,15	16	17,18		9,12	14,20
		13,14	29,32.2	15,16	X		22,23
					7,9		18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
MEVDUH	<i>PowerPlex® 16</i>						
	1				15,17	11	8,9
		14,15			9,12	9,12	14,20
			29,32.2		X,X	12	22,23
		10,14	8		7,9	8,12	18
MFR4LH	<i>Identifiler® Plus, MiniFiler</i>						
	1		18,20		15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
N27Y7A	<i>Identifiler® Plus</i>						
	1		18,20		15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
N3GX6P	<i>Identifiler® Plus</i>						
	1		18,20		15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
N72PE7	<i>Identifiler® Plus</i>						
	1		18,20		15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
NAERYG	<i>PowerPlex® 16</i>						
	1				15,17	11	8,9
		14,15			9,12	9,12	14,20
			29,32.2		X,X	12	22,23
		10,14	8		7,9	8,12	18
NBTWWE	<i>Identifiler® Plus</i>						
	1		18,20		15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
NGW4CH	<i>PowerPlex® 16</i>						
	1				15,17	11	8,9
		14,15			9,12	9,12	14,20
			29,32.2		X,X	12	22,23
		10,14	8		7,9	8,12	18
NKY2MA	<i>Identifiler® ID+</i>						
	1		18,20		15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
NM4H4E	PowerPlex® 16 HS						
	1				15,17	11	8,9
		14,15			9,12	9,12	14,20
			29,32.2		X	12	22,23
		10,14	8		7,9	8,12	18
NVGAUC	Identifiler®						
	1		18,20		15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
NVXTCN	GlobalFiler						
	1	16,16	18,20	11,15	15,17	11,11	8,9
		14,15	16,16	17,18	9,12	9,12	14,20
		13,14	29,32.2	15,16	X,X	12,12	22,23
				24.2,25.2	7,9	8,12	18,18
PKUYCW	PowerPlex® Fusion						
	1	16	18,20	11,15	15,17	11	8,9
		14,15	16	17,18	9,12	9,12	14,20
		13,14	29,32.2	15,16	X	12	22,23
		10,14	8		7,9	8,12	18
PTKKHU	Identifiler® , PowerPlex® 16 HS						
	1		18,20		15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
		10,14	8		7,9	8,12	18
PXZVTD	Identifiler® Plus						
	1		18,20		15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
Q2YQUR	COfiler® and Profiler Plus®						
	1				15,17	11,11	8,9
		14,15			9,12		14,20
			29,32.2		X,X		22,23
							18,18
QBLMVT	Identifiler®						
	1		18,20		15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
QZQA49	Identifiler®						
	1		18,20		15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
R2ULYF	<i>Identifiler® Plus, MiniFiler</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
R38ZLN	<i>NGM SElect</i>						
	1	16,16	18,20	11,15	15,17		
		14,15	16,16	17,18		9,12	14,20
		13,14	29,32.2	15,16	X,X		22,23
				24.2,25.2	7,9		18,18
RAL49G	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
RCC7HC	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
RJA3YM	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12	22,23
					7,9	8,12	18
RN4YLT	<i>Identifiler® PLUS, PowerPlex® HS, Power Plex ESX-17</i>						
	1	16	18,20	11,15	15,17	11	8,9
		14,15	16	17,18	9,12	9,12	14,20
		13,14	29,32.2	15,16	X	12	22,23
		10,14	8	24.2,25.2	7,9	8,12	18
T4Z7LF	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
T4Z9CJ	<i>Identifiler®</i>						
	1	18,20			15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
TD2XMT	<i>PowerPlex® Fusion</i>						
	1	16	18,20	11,15	15,17	11	8,9
		14,15	16	17,18	9,12	9,12	14,20
		13,14	29,32.2	15,16	X	12	22,23
		10,14	8		7,9	8,12	18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
TNKCNB	<i>Identifiler® Plus</i>						
	1	18,20		15,17	11,11	8,9	
		14,15		9,12	9,12	14,20	
		13,14	29,32.2	X,X	12,12	22,23	
				7,9	8,12	18,18	
TX7GXV	<i>Identifiler® Identifiler Plus</i>						
	1	18,20		15,17	11	8,9	
		14,15		9,12	9,12	14,20	
		13,14	29,32.2	X,X	12	22,23	
				7,9	8,12	18	
UHCB38	<i>Identifiler® Plus</i>						
	1	18,20		15,17	11,11	8,9	
		14,15		9,12	9,12	14,20	
		13,14	29,32.2	X,X	12,12	22,23	
				7,9	8,12	18,18	
UNEHGA	<i>Identifiler® Plus</i>						
	1	18,20		15,17	11,11	8,9	
		14,15		9,12	9,12	14,20	
		13,14	29,32.2	X,X	12,12	22,23	
				7,9	8,12	18,18	
URDW6Y	<i>Identifiler® Plus</i>						
	1	18,20		15,17	11	8,9	
		14,15		9,12	9,12	14,20	
		13,14	29,32.2	X	12	22,23	
				7,9	8,12	18	
URHBFE	<i>Identifiler® ID-Plus</i>						
	1	-	18,20	-	15,17	11,11	8,9
		14,15	-	-	9,12	9,12	14,20
		13,14	29,32.2	-	X,X	12,12	22,23
		-	-	-	7,9	8,12	18,18
V2KTNW	<i>Identifiler® Plus</i>						
	1	18,20		15,17	11	8,9	
		14,15		9,12	9,12	14,20	
		13,14	29,32.2	X	12	22,23	
				7,9	8,12	18	
VB48PD	<i>PowerPlex® 16</i>						
	1			15,17	11	8,9	
		14,15		9,12	9,12	14,20	
			29,32.2	X,X	12	22,23	
		10,14	8	7,9	8,12	18	
VGBV6Z	<i>Identifiler® Plus</i>						
	1	18,20		15,17	11	8,9	
		14,15		9,12	9,12	14,20	
		13,14	29,32.2	X	12	22,23	
				7,9	8,12	18	

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
VW89LG	<i>Identifiler®</i>						
	1	18,20			15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
VXZ2EE	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
W3AJBM	<i>Identifiler® Plus</i>						
	1	18,20			15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
W869UE	<i>PowerPlex® Fusion</i>						
	1	16	18,20	11,15	15,17	11	8,9
		14,15	16	17,18	9,12	9,12	14,20
		13,14	29,32.2	15,16	X	12	22,23
		10,14	8		7,9	8,12	18
WND6BT	<i>PowerPlex® Fusion</i>						
	1	16	18,20	11,15	15,17	11	8,9
		14,15	16	17,18	9,12	9,12	14,20
		13,14	29,32.2	15,16	X	12	22,23
		10,14	8		7,9	8,12	18
WW2XL4	<i>PowerPlex® 16</i>						
	1				15,17	11	8,9
		14,15			9,12	9,12	14,20
			29,32.2		X,X	12	22,23
		10,14	8		7,9	8,12	18
XJE7HF	<i>Identifiler® , GlobalFiler</i>						
	1	16,16	18,20	11,15	15,17	11,11	8,9
		14,15	16,16	17,18	9,12	9,12	14,20
		13,14	29,32.2	15,16	X,X	12,12	22,23
				24.2,25.2	7,9	8,12	18,18
XKLRM8	<i>PowerPlex® 16</i>						
	1				15,17	11	8,9
		14,15			9,12	9,12	14,20
			29,32.2		X,X	12	22,23
		10,14	8		7,9	8,12	18
XN8A8D	<i>Globalfiler</i>						
	1	16,16	18,20	11,15	15,17	11,11	8,9
		14,15	16,16	17,18	9,12	9,12	14,20
		13,14	29,32.2	15,16	X,X	12,12	22,23
				24.2,25.2	7,9	8,12	18,18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 1							
YALGUQ	<i>PowerPlex® Fusion</i>						
	1	16	18,20	11,15	15,17	11	8,9
		14,15	16	17,18	9,12	9,12	14,20
		13,14	29,32.2	15,16	X	12	22,23
		10,14	8		7,9	8,12	18
YHB6PT	<i>PowerPlex® Fusion</i>						
	1	16	18,20	11,15	15,17	11	8,9
		14,15	16	17,18	9,12	9,12	14,20
		13,14	29,32.2	15,16	X	12	22,23
		10,14	8		7,9	8,12	18
YK2C86	<i>Identifiler® Identifiler Plus</i>						
	1		18,20		15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
YLEW3Z	<i>Identifiler® Plus</i>						
	1		18,20		15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18
YZVNR	<i>Identifiler®</i>						
	1		18,20		15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
Z4CBZ6	<i>Identifiler® Plus</i>						
	1		18,20		15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
ZEWKMD	<i>Identifiler®</i>						
	1		18,20		15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
ZGZM7M	<i>PowerPlex® Fusion</i>						
	1	16	18,20	11,15	15,17	11	8,9
		14,15	16	17,18	9,12	9,12	14,20
		13,14	29,32.2	15,16	X	12	22,23
		10,14	8		7,9	8,12	18
ZH9WXK	<i>PowerPlex® Fusion</i>						
	1	16	18,20	11,15	15,17	11	8,9
		14,15	16	17,18	9,12	9,12	14,20
		13,14	29,32.2	15,16	X	12	22,23
		10,14	8		7,9	8,12	18

TABLE 1

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

Item 1

ZNJTZA	<i>PowerPlex® 16</i>						
	1				15,17	11	8,9
		14,15			9,12	9,12	14,20
			29,32.2		X,X	12	22,23
		10,14	8		7,9	8,12	18
ZPUNQ8	<i>Identifiler® Plus</i>						
	1		18,20		15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
					7,9	8,12	18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 2							
246VXN	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
2BQLKJ	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
2DVA72	<i>PowerPlex® 16 HS</i>						
	2				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
2EN6MH	<i>Identifiler®</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
2JJWUE	<i>Identifiler®</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
3E8D9R	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
3HKBGE	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
3UXFPV	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
3YVP44	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 2							
48ETGV	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
4E2C66	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
4G6DLT	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
4NNE4R	<i>PowerPlex® ESI 16 IDX</i>						
	2	15,17.3	17,19	11,11	14,17	-	-
		12,14	13,13	18,23	-	9,10	16,16
		14,15	28,30	11,16	X,Y	-	18,23
		-	-	-	6,8	-	17,19
4XTHDV							
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
636PEZ	<i>PowerPlex® 21</i>						
	2	15,17.3	17,19		14,17	11,12	7,9
		12,14		18,23	9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
69RK9C	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
6K4ZXW	<i>Identifiler®</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
7CMTQR	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 2							
7LDAPU	<i>Identifiler®</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
7NH436	<i>PowerPlex® Fusion</i>						
	2	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
7PW9YH	<i>Identifiler® Plus</i>						
	2	-	17,19	-	14,17	11,12	7,9
		12,14	-	-	9,11	9,10	16
		14,15	28,30	-	X,Y	10,12	18,23
		-	-	-	6,8	8,11	17,19
7VGJUX	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
7ZQPNI	<i>Identifiler®</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
8E7AJW	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
8QMRFA	<i>Identifiler® Plus</i>						
	2	-	17,19	-	14,17	11,12	7,9
		12,14	-	-	9,11	9,10	16,16
		14,15	28,30	-	X,Y	10,12	18,23
		-	-	-	6,8	8,11	17,19
92D348	<i>Identifiler® Plus</i>						
	2	-	17,19	-	14,17	11,12	7,9
		12,14	-	-	9,11	9,10	16
		14,15	28,30	-	X,Y	10,12	18,23
		-	-	-	6,8	8,11	17,19
9MHHN6	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 2							
9P4KDP	<i>Identifiler®</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
9W7GFA	<i>COfiler® and Profiler Plus®</i>						
	2				14,17	11,12	7,9
		12,14			9,11		16,16
			28,30		X,Y		18,23
							17,19
AJDEC9	<i>COfiler® and Profiler Plus®</i>						
	2				14,17	11,12	7,9
		12,14			9,11		16,16
			28,30		X,Y		18,23
							17,19
AUC4AW	<i>Identifiler®</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
AUWRP7	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
B3K2BL	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
B4FM3Q	<i>NGM SElect</i>						
	2	15,17.3	17,19	11,11	14,17		
		12,14	13,13	18,23		9,10	16,16
		14,15	28,30	11,16	X,Y		18,23
				16,18	6,8		17,19
BA4AWW	<i>PowerPlex® 16</i>						
	2				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
BC798P	<i>PowerPlex® 16</i>						
	2				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 2							
BEGAVA	<i>PowerPlex® FUSION, ESI, CS7</i>						
	2	15,17.3 12,14 14,15 11	17,19 13 28,30 7,12	11 18,23 11,16 16,18	14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19
BFBQEX	<i>Identifiler® Plus</i>						
	2		17,19		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19
BN42NT	<i>Identifiler® Plus</i>						
	2		17,19		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16,16 18,23 17,19
BYKT7B	<i>PowerPlex® Fusion</i>						
	2	15,17.3 12,14 14,15 11	17,19 13 28,30 7,12	11 18,23 11,16	14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19
CEB9P2	<i>Identifiler®</i>						
	2		17,19		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16,16 18,23 17,19
CEVUF7	<i>COfiler® and Profiler Plus®</i>						
	2				14,17 9,11 X,Y	11,12	7,9 16,16 18,23 17,19
CMNA3P	<i>Identifiler®</i>						
	2		17,19		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19
CNX8HR	<i>PowerPlex® 21</i>						
	2	15,17.3 12,14 14,15 11,11	17,19 28,30 7,12	18,23	14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16,16 18,23 17,19
D8PMCM	<i>PowerPlex® 16</i>						
	2				14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 2							
DCJYT	<i>PowerPlex® 16</i>						
	2				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
DFKHHY	<i>Identifiler®</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
DGDDYF	<i>Global Filer</i>						
	2	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
DHLPDW	<i>PowerPlex® 16</i>						
	2				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
E2FNHA	<i>PowerPlex® Fusion</i>						
	2	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
E6X6BE	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
ECDNTT	<i>PowerPlex® 16</i>						
	2				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
EHKC9E	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
EMGUTL	<i>Identifiler®</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 2							
EXH84U	PowerPlex® 16						
	2				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
F3P6XK	Identifiler®						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
F6ECGV	Identifiler®						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
F6VTBP	ESX16						
	2	15,17.3	17,19	11	14,17		
		12,14	13	18,23		9,10	16
		14,15	28,30	11,16	X,Y		18,23
					6,8		17,19
FBYJUJ	PowerPlex® 16						
	2				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
FGRLZF	Identifiler®						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
FNUN9L	Identifiler®						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
FZHMZN	PowerPlex® 21						
	2	15,17.3	17,19		14,17	11,12	7,9
		12,14		18,23	9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
G2B2ZL	PowerPlex® 16 HS						
	2				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 2							
GAJHML	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
GB2L6K	<i>Identifiler® Identifiler Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
GDJN7X	<i>Identifiler® Plus</i>						
	2	-	17,19	-	14,17	11,12	7,9
		12,14	-	-	9,11	9,10	16
		14,15	28,30	-	X,Y	10,12	18,23
		-	-	-	6,8	8,11	17,19
H4TPQC	<i>Identifiler®</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
HE8J4Q	<i>PowerPlex® 16</i>						
	2				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
HKHPQP	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
J6JZAH	<i>Identifiler®</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
J9JFCE	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
JNT6QZ	<i>Identifiler®</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 2							
JRWTCH	<i>Identifiler®</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
JUMZUT	<i>Identifiler®</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
JUZQLP	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
KJGJDM	<i>PowerPlex® 16</i>						
	2				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
			11		6,8	8,11	17,19
KUG886	<i>PowerPlex®</i>						
	2	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
KYC4UB	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
L2BYT4	<i>Global Filer</i>						
	2	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
L4Z6BF	<i>Identifiler®</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
L9EL7D	<i>Identifiler® Plus/MiniFiler</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 2							
LHHVEN	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
LL3KY2	<i>PowerPlex® Fusion</i>						
	2	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
LN92DK	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
LXV4D8	<i>NGM SE</i>						
	2	15,17.3	17,19	11,11	14,17		
		12,14	13,13	18,23		9,10	16,16
		14,15	28,30	11,16	X,Y		18,23
				16,18	6,8		17,19
LYQP4C	<i>Identifiler® Identifiler Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
LZYYWA	<i>Identifiler® Identifiler Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
M3LZDH	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
M3YR6Y	<i>PowerPlex® ES16, In-house kit</i>						
	2	15,17.3	17,19	11	14,17		
		12,14	13	18,23		9,10	16
		14,15	28,30	11,16	X,Y		18,23
					6,8		17,19
MEVDUH	<i>PowerPlex® 16</i>						
	2				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 2							
MFR4LH	<i>Identifiler® Plus, MiniFiler</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
N27Y7A	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
N3GX6P	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
N72PE7	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
NAERYG	<i>PowerPlex® 16</i>						
	2				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
NBTWWE	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
NGW4CH	<i>PowerPlex® 16</i>						
	2				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
NKY2MA	<i>Identifiler® ID+</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
NM4H4E	<i>PowerPlex® 16 HS</i>						
	2				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 2							
NVGAUC	<i>Identifiler®</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
NVXTCN	<i>GlobalFiler</i>						
	2	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
PKUYCW	<i>PowerPlex® Fusion</i>						
	2	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
PTKKHU	<i>Identifiler® , PowerPlex® 16 HS</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
PXZVTD	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
Q2YQUR	<i>COfiler® and Profiler Plus®</i>						
	2				14,17	11,12	7,9
		12,14			9,11		16,16
			28,30		X,Y		18,23
							17,19
QBLMVT	<i>Identifiler®</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
QZQA49	<i>Identifiler®</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
R2ULYF	<i>Identifiler® Plus, MiniFiler</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 2							
R38ZLN	<i>NGM Select</i>						
	2	15,17.3 12,14 14,15	17,19 13,13 28,30	11,11 18,23 11,16 16,18	14,17 X,Y 6,8	9,10	16,16 18,23 17,19
RAL49G	<i>Identifiler® Plus</i>						
	2	12,14 14,15	17,19 28,30		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16,16 18,23 17,19
RCC7HC	<i>Identifiler® Plus</i>						
	2	12,14 14,15	17,19 28,30		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19
RJA3YM	<i>Identifiler® Plus</i>						
	2	12,14 14,15	17,19 28,30		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19
RN4YLT	<i>Identifiler® PLUS, PowerPlex® HS, POWER PLEX ESX-17</i>						
	2	15,17.3 12,14 14,15 11	17,19 13 28,30 7,12	11 18,23 11,16 16,18	14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19
T4Z7LF	<i>Identifiler® Plus</i>						
	2	12,14 14,15	17,19 28,30		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19
T4Z9CJ	<i>Identifiler®</i>						
	2	12,14 14,15	17,19 28,30		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16,16 18,23 17,19
TD2XMT	<i>PowerPlex® Fusion</i>						
	2	15,17.3 12,14 14,15 11	17,19 13 28,30 7,12	11 18,23 11,16	14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19
TNKCNB	<i>Identifiler® Plus</i>						
	2	12,14 14,15	17,19 28,30		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16,16 18,23 17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 2							
TX7GXV	<i>Identifiler® Identifiler Plus</i>						
	2	17,19			14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
UHCB38	<i>Identifiler® Plus</i>						
	2	17,19			14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
UNEHGA	<i>Identifiler® Plus</i>						
	2	17,19			14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
URDW6Y	<i>Identifiler® Plus</i>						
	2	17,19			14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
URHBFE	<i>Identifiler® ID-Plus</i>						
	2	-	17,19	-	14,17	11,12	7,9
		12,14	-	-	9,11	9,10	16,16
		14,15	28,30	-	X,Y	10,12	18,23
		-	-	-	6,8	8,11	17,19
V2KTNW	<i>Identifiler® Plus</i>						
	2	17,19			14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
VB48PD	<i>PowerPlex® 16</i>						
	2				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
VGBV6Z	<i>Identifiler® Plus</i>						
	2	17,19			14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
VW89LG	<i>Identifiler®</i>						
	2	17,19			14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 2							
VXZ2EE	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
W3AJBM	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
W869UE	<i>PowerPlex® Fusion</i>						
	2	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
WND6BT	<i>PowerPlex® Fusion</i>						
	2	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
WW2XL4	<i>PowerPlex® 16</i>						
	2				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
XJE7HF	<i>Identifiler® , GlobalFiler</i>						
	2	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
XKLRM8	<i>PowerPlex® 16</i>						
	2				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
XN8A8D	<i>Globalfiler</i>						
	2	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
YALGUQ	<i>PowerPlex® Fusion</i>						
	2	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 2							
YHB6PT	<i>PowerPlex® Fusion</i>						
	2	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
YK2C86	<i>Identifiler® Identifiler Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
YLEW3Z	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
YZVVNR	<i>Identifiler®</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
Z4CBZ6	<i>Identifiler® Plus</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
ZEWKMD	<i>Identifiler®</i>						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
ZGZM7M	<i>PowerPlex® Fusion</i>						
	2	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
ZH9WXX	<i>PowerPlex® Fusion</i>						
	2	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
ZNJTZA	<i>PowerPlex® 16</i>						
	2				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
		D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
		D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
		Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 2

ZPUNQ8	Identifiler® Plus						
	2		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

TABLE 1

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

Item 3

9W7GFA	COfiler® and Profiler Plus®						
	3				14,17	11,12	7,9
		12,14			9,11		16,16
			28,30		X,Y		18,23
							17,19
AJDEC9	COfiler® and Profiler Plus®						
	3				14,17	11,12	7,9
		12,14			9,11		16,16
			28,30		X,Y		18,23
							17,19
CEVUF7	COfiler® and Profiler Plus®						
	3				15,17	11,11	8,9
		14,15			9,12		14,20
			29,32.2		X,X		22,23
							18,18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3e							
246VXN	<i>Identifiler® Plus</i>						
	3e	[12],14,15 13,14,[15]	[17],18,[19],20 [28],29,[30],32.2		[14],15,17 9,[11],12 X,[Y] [6],7,[8],9	11,[12] 9,12 [10],12 8,[11],12	8,9 14,[16],20 [18],22,23 [17],18,[19]
2BQLKJ	<i>Identifiler® Plus</i>						
	3e	[12],14,15 13,14,[15]	[17],18,[19],20 [28],29,[30],32.2		[14],15,17 9,[11],12 X 7,[8],9	11 9,[10],12 [10],12 8,[11],12	[7],8,9 14,[16],20 [18],22,23 18,[19]
2DVA72	<i>PowerPlex® 16 HS</i>						
	3e	12,14,15 10,11,14	28,29,30,32.2 8,12		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
2EN6MH	<i>Identifiler®</i>						
	3e	14,15 13,14	18,[19],20 29,32.2		15,17 9,12 X,[Y] 7,[8],9	11,[12] 9,12 12 8,[11],12	8,9 14,[16],20 22,23 18
2JJWUE	<i>Identifiler®</i>						
	3e	[12],14,15 13,14,[15]	[17],18,[19],20 [28],29,[30],32.2		[14],15,17 9,[11],12 X,[Y] [6],7,[8],9	11,[12] 9,[10],12 12 8,[11],12	8,9 14,[16],20 [18],22,23 18,[19]
3E8D9R	<i>Identifiler® Plus</i>						
	3e	[12],14,15 13,14	[17],18,[19],20 [28],29,32.2		[14],15,17 9,12 X,[Y] [6],7,[8],9	11 9,12 [10],12 8,12	8,9 14,[16],20 22,23 18
3HKBGE	<i>Identifiler® Plus</i>						
	3e	14,15 13,14	18,20 29,32.2		15,17 9,12 X,X 7,9	11 9,12 12 8,12	8,9 14,20 22,23 18
3UXFPV	<i>Identifiler® Plus</i>						
	3e	12,14,15 13,14,15	17,18,19,20 28,29,30,32.2		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
3YVP44	<i>Identifiler® Plus</i>						
	3e	12,14,15 13,14	17,18,20 29,30,32.2		15,17 9,12 X 7,9	11,12 9,10,12 12 8,11,12	8,9 14,16,20 18,22,23 18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3e							
48ETGV	<i>Identifiler® Plus</i>						
	3e	14,15 13,14	[17],18,20 [28],29,32.2		15,17 9,[11],12 X 7,[8],9	11 9,12 12 8,12	8,9 14,[16],20 22,23 18
4E2C66	<i>Identifiler® Plus</i>						
	3e	[12],14,15 13,14,[15]	18,20 [28],29,[30],32.2		15,17 9,[11],12 X,[Y] [6],7,[8],9	11,[12] 9,[10],12 [10],12,[13] 8,[11],12	[7],8,9 14,[16],20 [18],22,23 18,[19]
4G6DLT	<i>Identifiler® Plus</i>						
	3e	12,14,15 13,14,15	18,19,20 28,29,30,32.2		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	8,9 14,16,20 22,23 17,18,19
4NNE4R	<i>PowerPlex® ESI 16</i>						
	3e	16,16 14,15 13,14 -	18,20 16,16 29,32.2 -	11,15 17,18 15,16 -	15,17 - X,X 7,9	- 9,12 - -	- 14,20 22,23 18,18
4XTHDV	<i>Identifiler®</i>						
	3e	[12],14,15 13,14	18,20 [28],29,[30],32.2		15,17 9,12 X [6],7,[8],9	11,[12] 9,12 [10],12 8,[11],12	[7],8,9 14,[16],20 22,23 18
636PEZ	<i>PowerPlex® 21</i>						
	3e	15,16,17.3 12,14,15 13,14,15 10,11,14	17,18,19,20 28,29,30,32.2 7,8,12	17,18,23	14,15,17 9,11,12 X,[Y] 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
69RK9C	<i>Identifiler® Plus</i>						
	3e	12,14,15 13,14,15	17,18,19,20 28,29,30,32.2		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
6K4ZXW	<i>Identifiler®</i>						
	3e	14,15 13,14	18,19,20 29,32.2		15,17 9,12 X 7,8,9	11 9,12 12 8,12	8,9 14,20 22,23 18
7CMTQR	<i>Identifiler® Plus</i>						
	3e	12,14,15 13,14,15	18,19,20 28,29,30,32.2		15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3e							
7LDAPU	<i>Identifiler®</i>						
	3e	12,14,15 13,14	17,18,19,20 28,29,30,32.2		15,17 9,11,12 X 6,7,8,9	11,12 9,12 12 8,11,12	8,9 14,16,20 22,23 18
7NH436	<i>PowerPlex® Fusion</i>						
	3e	16 14,15 13,14 10,14	18,20 16 29,32.2 8	11,15 17,18 15,16	15,17 9,12 X 7,9	11 9,12 12 8,12	8,9 14,20 22,23 18
7PW9YH	<i>Identifiler® Plus</i>						
	3e	- 14,15 13,14 -	18,20 - 29,32.2 -	- - - -	15,17 9,12 X,X 7,9	11 9,12 12 8,12	8,9 14,20 22,23 18
7VGJUX	<i>Identifiler® Plus</i>						
	3e	[12],14,15 13,14	18,20 [28],29,[30],32.2		15,17 9,[11],12 X,[Y] [6],7,[8],9	11,[12] 9,[10],12 [10],12 8,[11],12	8,9 14,[16],20 [18],22,23 18
7ZQPNJ	<i>Identifiler®</i>						
	3e	[12],14,15 13,14	[17],18,[19],20 29,32.2		[14],15,17 9,[11],12 X 7,[8],9	11 9,12 12 8,12	[7],8,9 14,20 22,23 18
8E7AJW	<i>Identifiler® Plus</i>						
	3e	[12],14,15 13,14,[15]	18,20 [28],29,[30],32.2		15,17 9,[11],12 X,X,[Y] 7,[8],9	11,11,[12] 9,[10],12 12,12 8,[11],12	8,9 14,[16],20 [18],22,23 18,18
8QMRFA	<i>Identifiler® Plus</i>						
	3e	- 14,15 13,14 -	18,20 - 29,32.2 -	- - - -	15,17 9,12 X,X 7,9	11,11 9,12 12,12 8,12	8,9 14,20 22,23 18,18
92D348	<i>Identifiler® Plus</i>						
	3e	- 14,15 13,14 -	18,20 - 29,32.2 -	- - - -	15,17 9,12 X,X 7,9	11 9,12 12 8,12	8,9 14,20 22,23 18
9MHHN6	<i>Identifiler® Plus</i>						
	3e	[12],14,15 13,14	[17],18,[19],20 [28],29,[30],32.2		[14],15,17 9,[11],12 X,[Y] [6],7,[8],9	11,[12] 9,[10],12 12,12 8,[11],12	[7],8,9 14,[16],20 [18],22,23 [17],18,[19]

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3e							
9P4KDP	<i>Identifiler®</i>						
	3e	12,14,15 13,14	17,18,19,20 28,29,30,32.2		15,17 9,11,12 X 6,7,8,9	11,12 9,12 12 8,11,12	7,8,9 14,16,20 22,23 18
AUC4AW	<i>Identifiler®</i>						
	3e	[12],14,15 13,14,[15]	[17],18,[19],20 [28],29,[30],32.2		[14],15,17 9,[11],12 X,[Y] [6],7,[8],9	11,[12] 9,[10],12 [10],12,[13] 8,[11],12	[7],8,9 14,[16],20 [18],22,23 18,[19]
AUWRP7	<i>Identifiler® Plus</i>						
	3e	14,15 13,14	18,20 29,32.2		15,17 9,12 X,X 7,9	11 9,12 12 8,12	8,9 14,20 22,23 18
B3K2BL	<i>Identifiler® Plus</i>						
	3e	12,14,15 13,14,15	18,19,20 28,29,30,32.2		15,17 9,12 X,Y 6,7,8,9	11 9,10,12 10,12 8,11,12	8,9 14,16,20 22,23 18,19
B4FM3Q	<i>NGM SElect</i>						
	3e	16,[17.3] [12],14,15 13,14,[15]	18,[19],20 [13],16 [28],29,[30],32.2	11,15 17,18,[23] [11],15,16 [16],[18],24.2,25.2	15,17 X,[Y] 7,[8],9	9,[10],12	14,[16],20 [18],22,23 [17],18
BA4AWW	<i>PowerPlex® 16</i>						
	3e	14,15 10,14	29,32.2 8		15,17 9,12 X,Y 6,7,9	11,12 9,10,12 12 8,12	8,9 14,16,20 18,22,23 18
BC798P	<i>PowerPlex® 16</i>						
	3e	12,14,15 10,11,14	28,29,30,32.2 7,8,12		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
BEGAVA	<i>PowerPlex® FUSION, ESI, CS7</i>						
	3e	16 14,15 13,14 10,14	18,20 16 29,32.2 8	11,15 17,18 15,16 24.2,25.2	15,17 9,12 X 7,9	11 9,12 12 8,12	8,9 14,20 22,23 18
BFBQEX	<i>Identifiler® Plus</i>						
	3e	[12],14,15 13,14,[15]	[17],18,[19],20 [28],29,[30],32.2		[14],15,17 9,[11],12 X,[Y] [6],7,[8],9	11,[12] 9,[10],12 [10],12 8,[11],12	[7],8,9 14,[16],20 [18],22,23 [17],18,[19]

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3e							
BN42NT	<i>Identifiler® Plus</i>						
	3e	18,20			14,15,17	11	7,8,9
		12,14,15			9,12	9,10,12	14,16,20
		13,14	29,32.2		X	10,12	22,23
					7,8,9	8,12	18,19
BYKT7B	<i>PowerPlex® Fusion</i>						
	3e	[15],16,[17.3]	18,[19],20	11,15	15,17	11	[7],8,9
		[12],14,15	[13],16	17,18,[23]	9,12	9,[10],12	14,[16],20
		13,14	[28],29,[30],32.2	15,16	X	12	22,23
		10,[11],14	8		[6],7,[8],9	8,[11],12	18,[19]
CEB9P2	<i>Identifiler® , MiniFiler, SGM Plus</i>						
	3e	[17],18,[19],20			[14],15,17	11,[12]	[7],8,9
		[12],14,[15]			9,[11],12	9,10,[12]	14,16,20
		13,14,[15]	[28],29,[30],32.2		X,[Y]	[10],12	[18],22,23
					[6],7,[8],9	8,[11],[12]	[17],18,[19]
CMNA3P	<i>Identifiler®</i>						
	3e	18,[19],20			15,17	11	8,9
		[12],14,15			9,12	9,[10],12	14,20
		13,14,[15]	[28],29,[30],32.2		X	12	22,23
					[6],7,[8],9	8,12	18,[19]
CNX8HR	<i>PowerPlex® 21</i>						
	3e	16,17.3	18,20		15,17	11,11	8,9
		14,15		17,18	9,12	9,10,12	14,16,20
		13,14	29,30,32.2		X,X	10,12	22,23
		10,14	8,12		7,8,9	8,12	18,18
D8PMCM	<i>PowerPlex® 16</i>						
	3e	[14],15,17			[14],15,17	11,[12]	[7],8,9
		[12],14,15			9,[11],12	9,[10],12	14,[16],20
			[28],29,32.2		X,[Y]	12	22,23
		10,[11],14	8		[6],7,9	8,[11],12	18
DCJJYT	<i>PowerPlex® 16</i>						
	3e	15,17			15,17	11	8,9
		12,14,15			9,12	9,10,12	14,16,20
			29,32.2		X,X	12	18,22,23
		10,14	8		7,8,9	8,12	18
DFKHHY	<i>Identifiler®</i>						
	3e	(17),18,(19),20			(14),15,17	11,11	(7),8,9
		(12),14,15			9,(11),12	9,(10),12	14,(16),20
		13,14,(15)	(28),29,(30),32.2		X,(Y)	(10),12	(18),22,23
					7,(8),9	8,(11),12	18,18
DGDDYF	<i>Global Filer</i>						
	3e	[15],16,[17.3]	[17],18,[19],20	11,15	[14],15,17	11,[12]	[7],8,9
		[12],14,15	[13],16	17,18,[23]	9,[11],12	9,[10],12	14,[16],20
		13,14,[15]	[28],29,[30],32.2	[11],15,16	X,[Y]	[10],12	[18],22,23
				[16],[18],24.2,25.2	[6],7,[8],9	8,[11],12	18,[19]

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3e							
DHLPDW	<i>PowerPlex® 16</i>						
	3e				15,17	11	8,9
		14,15			9,12	9,12	14,20
			[28],29,32.2		X,X	12	22,23
		10,14	8		7,9	8,12	18
E2FNHA	<i>PowerPlex® Fusion</i>						
	3e	16,[17.3]	[17],18,20	11,15	15,17	11,[12]	8,9
		[12],14,15	[13],16	17,18	9,[11],12	9,[10],12	14,[16],20
		13,14	[28],29,[30],32.2	[11],15,16	X,[Y]	[10],12	[18],22,23
		10,[11],14	8		[6],7,[8],9	8,[11],12	[17],18
E6X6BE	<i>Identifiler® Plus</i>						
	3e		[17],18,[19],20		[14],15,17	11,[12]	[7],8,9
		[12],14,15			9,[11],12	9,[10],12	14,[16],20
		13,14,[15]	[28],29,[30],32.2		X,[Y]	[10],12	[18],22,23
					[6],7,[8],9	8,[11],12	[17],18
ECDNTT	<i>PowerPlex® 16</i>						
	3e				14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
			28,29,30,32.2		X,Y	10,12	18,22,23
		10,11,14	7,8,12		6,7,8,9	8,11,12	18,19
EHKC9E	<i>Identifiler® Plus</i>						
	3e		[17],18,20		15,17	11,[12]	8,9
		[12],14,15			9,[11],12	9,[10],12	14,16,20
		13,14	[28],29,[30],32.2		X,[Y]	[10],12	[18],22,23
					[6],7,[8],9	8,[11],12	[17],18,[19]
EMGUTL	<i>Identifiler®</i>						
	3e		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	12	18,22,23
					6,7,8,9	8,11,12	17,18,19
EXH84U	<i>PowerPlex® 16</i>						
	3e				15,17	11,12	8,9
		12,14,15			9,12	9,10,12	14,16,20
			29,32.2		X,Y	10,12	22,23
		10,11,14	8		7,8,9	8,12	18
F3P6XK	<i>Identifiler®</i>						
	3e		17,18,19,20		15,17	11,12	8,9
		12,14,15			9,11,12	9,12	14,20
		13,14	29,30,32.2		X,Y	12	18,22,23
					6,7,8,9	8,11,12	18
F6ECGV	<i>Identifiler® , SGM Plus</i>						
	3e		18,20		15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3e							
F6VTBP	ESX16						
	3e	16 [12],14,15 13,14	18,20 [13],16 29,32.2	11,15 17,18,[23] 15,16	15,17 X 7,9	9,12	14,[16],20 22,23 18
FBJJUJ	PowerPlex® 16						
	3e	14,15 10,[11],14	[28],29,32.2 8		15,17 9,[11],12 X,[Y] [6],7,[8],9	11 9,12 [10],12 8,[11],12	8,9 14,[16],20 22,23 18
FGRLZF	Identifiler®						
	3e	[12],14,15 13,14,[15]	[17],18,[19],20 [28],29,[30],32.2		[14],15,17 9,[11],12 X,[Y] 7,[8],9	11,[12] 9,[10],12 [10],12 8,[11],12	8,9 14,[16],20 [18],22,23 18,[19]
FZHMZN	PowerPlex® 21						
	3e	16,[17.3] [12],14,15 13,14 10,[11],14	18,[19],20 29,[30],32.2 8,[12]	17,18	[14],15,17 9,[11],12 X,[Y] [6],7,[8],9	11 9,[10],12 [10],12 8,[11],12	8,9 14,[16],20 [18],22,23 18,[19]
G2B2ZL	PowerPlex® 16 HS						
	3e	14,15 10,11,14	29,30,32.2 8,12		15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
GAJHML	Identifiler® Plus						
	3e	[12],14,15 13,14	[17],18,20 29,[30],32.2		15,17 9,12 X,X 7,9	11,11 9,12 [10],12,12 8,12	[7],8,9 14,20 22,23 18,18
GB2L6K	Identifiler® Identifiler Plus						
	3e	[12],14,15 13,14,15	18,20 [28],29,[30],32.2		15,17 9,11,12 X 7,[8],9	11,[12] 9,[10],12 12 8,12	7,8,9 14,[16],20 22,23 18
GDJN7X	Identifiler® Plus						
	3e	- 12,14,15 13,14,15 -	17,18,19,20 - 28,29,30,32.2 -	- - - -	14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
H4TPQC	Identifiler®						
	3e	[12],14,15 13,14,[15]	[17],18,[19],20 [28],29,32.2		15,17 9,12 X 7,9	11,[12] 9,12 12 8,[11],12	8,9 14,[16],20 22,23 18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3e							
HE8J4Q	PowerPlex® 16						
	3e	[12],14,15	[28],29,[30],32.2		[14],15,17 9,[11],12 X,[Y]	11,[12] 9,[10],12 12	8,9 14,[16],20 22,23
		10,[11],14	8		7,[8],9	8,[11],12	18
HKHPQP	Identifiler® Plus, MiniFiler						
	3e	[12],14,15	[28],29,[30],32.2		[14],15,17 9,[11],12 X,[Y]	11,[12] 9,[10],12 [10],12	[7],8,9 14,[16],20 [18],22,23
		13,14,[15]			[6],7,[8],9	8,[11],12	18,[19]
J6JZAH	Identifiler®						
	3e	12,14,15	29,30,32.2		15,17 9,12 X,Y	11,12 9,12 12	8,9 14,16,20 18,22,23
		13,14			6,7,8,9	8,11,12	18,19
J9JFCE	Identifiler® Plus						
	3e	[12],14,15	[28],29,32.2		[14],15,17 9,[11],12 X	11,[12] 9,[10],12 [10],12	[7],8,9 14,[16],20 22,23
		13,14			[6],7,[8],9	8,[11],12	[17],18
JNT6QZ	Identifiler®						
	3e	[12],14,15	[28],29,[30],32.2		15,17 9,[11],12 X	11,[12] 9,[10],12 [10],12	8,9 14,[16],20 [18],22,23
		13,14,[15]			[6],7,[8],9	8,[11],12	18
JRWTC	Identifiler®						
	3e	12,14,15	29,30,32.2		15,17 9,11,12 X	11,12 9,12 12	8,9 14,16,20 22,23
		13,14			6,7,8,9	8,11,12	18
JUMZUT	Identifiler® , SGMPlus						
	3e	[12],14,15	29,32.2		15,17 9,12 X,X	11,11 9,[10],12 [10],12	8,9 14,[16],20 [18],22,23
		13,14,[15]			7,9	8,12	18,18
JUZQLP	Identifiler® Plus						
	3e	[12],14,15	[28],29,[30],32.2		15,17 9,12 X,[Y]	11,[12] 9,[10],12 [10],12	8,9 14,[16],20 [18],22,23
		13,14			[6],7,[8],9	8,[11],12	18,[19]
KJGJDM	PowerPlex® 16						
	3e	14,15	28,29,32.2		15,17 9,12 X,X	11 9,12 12	8,9 14,20 22,23
		10,14	8		7,9	8,12	18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3e							
KUG886	PowerPlex®						
	3e	[15],16,[17.3] [12],14,15 13,14 10,[11],14	[17],18,20 16 [28],29,[30],32.2 8,[12]	11,15 17,18,[23] [11],15,16	[14],15,17 9,12 X,[Y] [6],7,9	11,[12] 9,12 12 8,12	8,9 14,[16],20 22,23 18
KYC4UB	Identifiler® Plus						
	3e	[12],14,15 13,14	18,20 [28],29,[30],32.2		15,17 9,[11],12 X,X,[Y] [6],7,[8],9	11,11,[12] 9,[10],12 [10],12,12 8,[11],12	[7],8,9 14,[16],20 [18],22,23 18,18
L2BYT4	Global Filer						
	3e	[15],16 [12],14,15 13,14,[15]	[17],18,[19],20 16 29,[30],32.2	11,15 17,18 [11],15,16 [16],24.2,25.2	15,17 9,[11],12 X,[Y] [6],7,[8],9	11,[12] 9,12 12 8,[11],12	8,9 14,[16],20 [18],22,23 18,[19]
L4Z6BF	Identifiler®						
	3e	[12],14,15 13,14,[15]	[17],18,20 [28],29,[30],32.2		15,17 9,12 X 7,[8],9	11 9,12 12 8,[11],12	8,9 14,[16],20 22,23 18,[19]
L9EL7D	Identifiler® Plus, MiniFiler also on 3(sperm)						
	3e	[12],14,15 13,14,[15]	[17],18,[19],20 [28],29,[30],32.2		[14],15,17 9,[11],12 X,[Y] [6],7,[8],9	11 9,12 [10],12 8,[11],12	8,9 14,[16],20 22,23 18
LHHVEN	Identifiler® Plus						
	3e	[12],14,15 13,14,[15]	[17],18,[19],20 [28],29,[30],32.2		[14],15,17 9,[11],12 X,[Y] [6],7,[8],9	11,12 9,[10],12 [10],12 8,[11],12	[7],8,9 14,[16],20 [18],22,23 [17],18,[19]
LL3KY2	PowerPlex® Fusion						
	3e	15,16 12,14,15 13,14,15 10,14	17,18,19,20 13,16 28,29,30,32.2 8	11,15 17,18 11,15,16	14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
LN92DK	Identifiler® Plus						
	3e	12,14,15 13,14,15	18,19,20 28,30,32.2		15,17 9,12 X 7,9	11 9,10,12 10,12 8,11,12	8,9 14,16,20 22,23 18,19
LXV4D8	ESI 17 (Seminal fraction & Epithelial fraction)						
	3e	[15],16,16,[17.3] [12],14,15 13,14,[15]	[17],18,[19],20 [13],16,16 [28],29,[30],32.2	11,15 17,18,[23] 15,16 [16],[18],24.2,25.2	[14],15,17 X,X,[Y] [6],7,[8],9	9,[10],12	14,[16],20 [18],22,23 18,18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3e							
LYQP4C	<i>Identifiler® Identifiler Plus</i>						
	3e	18,20			14,15,17	11,11	8,9
		12,14,15			9,12	9,12	14,16,20
		13,14	29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	18,18
LZYYWA	<i>Identifiler® Identifiler Plus</i>						
	3e	17,18,19,20			15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	18,19
M3LZDH	<i>Identifiler® Plus</i>						
	3e	[17],18,[19],20			[14],15,17	11,11	8,9
		[12],14,15			9,[11],12	9,12	14,[16],20
		13,14,[15]	[28],29,[30],32.2		X,X	12,12	22,23
					[6],7,[8],9	8,[11],12	18,18
M3YR6Y	<i>PowerPlex® ES16, In-House kit</i>						
	3e	[15],16	18,20	11,15	15,17		
		14,15	[13],16	17,18		9,[10],12	14,[16],20
		13,14	29,[30],32.2	[11],15,16	X		[18],22,23
					[6],7,[8],9		18
MEVDUH	<i>PowerPlex® 16</i>						
	3e				15,17	11	8,9
		14,15			9,11,12	9,12	14,16,20
			29,30,32.2		X,Y	12	22,23
		10,14	8		7,8,9	8,11,12	18
MFR4LH	<i>Identifiler® Plus</i>						
	3e	17,18,19,20			14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
N27Y7A	<i>Identifiler® Plus</i>						
	3e	17,18,19,20			14,15,17	11,12	7,8,9
		14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X	12	18,22,23
					6,7,8,9	8,11,12	17,18
N3GX6P	<i>Identifiler® Plus</i>						
	3e	[17],18,[19],20			[14],15,17	11,[12]	[7],8,9
		[12],14,15			9,[11],12	9,[10],12	14,[16],20
		13,14,[15]	[28],29,[30],32.2		X,X	[10],12	[18],22,23
					[6],7,[8],9	8,[11],12	[17],18
N72PE7	<i>Identifiler® Plus</i>						
	3e	[17],18,[19],20			[14],15,17	11,[12]	[7],8,9
		[12],14,15			9,12	9,[10],12	14,[16],20
		13,14	[28],29,[30],32.2		X	[10],12	[18],22,23
					[6],7,[8],9	8,[11],12	18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3e							
NAERYG	<i>PowerPlex® 16</i>						
	3e				14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,12	14,16,20
			28,29,32.2		X,Y	12	18,22,23
		10,11,14	8,12		6,7,9	8,11,12	18
NBTWWE	<i>Identifiler® Plus</i>						
	3e		[17],18,[19],20		15,17	11,11,[12]	[7],8,9
		14,15			9,12	9,12	14,[16],20
		13,14,[15]	[28],29,[30],32.2		X,X,[Y]	[10],12,12	[18],22,23
					[6],7,[8],9	8,[11],12	18,18
NGW4CH	<i>PowerPlex® 16</i>						
	3e				14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
			28,29,30,32.2		X,Y	10,12	18,22,23
		10,11,14	8,12		6,7,8,9	8,11,12	18
NKY2MA	<i>Identifiler® ID+</i>						
	3e		[17],18,[19],20		[14],15,17	11,[12]	8,9
		[12],14,15			9,[11],12	9,12	14,[16],20
		13,14,[15]	[28],29,[30],32.2		X,[Y]	[10],12	[18],22,23
					[6],7,[8],9	8,[11],12	[17],18,[19]
NM4H4E	<i>PowerPlex® 16 HS</i>						
	3e				15,17	11,12	8,9
		12,14,15			9,11,12	9,10,12	14,16,20
			29,32.2		X	10,12	22,23
		10,11,14	8,12		6,7,9	8,11,12	18,19
NVGAUC	<i>Identifiler®</i>						
	3e		17,18,19,20		14,15,17	11,12	7,8,9
		14,15			9,11,12	9,12	14,16,20
		13,14	29,30,32.2		X	12	22,23
					7,8,9	8,11,12	18
NVXTCN	<i>GlobalFiler</i>						
	3e	16,16	18,[19],20	11,15	15,17	11,11	8,9
		[12],14,15	16,16	17,18	9,[11],12	9,12	14,[16],20
		13,14,[15]	29,[30],32.2	15,16	X,[Y]	12,12	[18],22,23
				24.2,25.2	7,9	8,12	18,18
PKUYCW	<i>PowerPlex® Fusion</i>						
	3e	[15],16	[17],18,[19],20	11,15	15,17	11,[12]	8,9
		[12],14,15	[13],16	17,18,[23]	9,[11],12	9,[10],12	14,[16],20
		13,14	[28],29,[30],32.2	[11],15,16	X	[10],12	[18],22,23
		10,[11],14	8		[6],7,[8],9	8,[11],12	18
PTKKHU	<i>Identifiler® , PowerPlex® 16 HS</i>						
	3e		18,20		15,17	11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X	12	22,23
		10,14	8		7,9	8,12	18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3e							
PXZVTD	<i>Identifiler® Plus</i>						
	3e	[12],14,15 13,14,[15]	[17],18,[19],20 [28],29,[30],32.2		15,17 9,[11],12 X,X 7,[8],9	11,11,[12] 9,12 [10],12,12 8,12	8,9 14,[16],20 [18],22,23 18,18
Q2YQUR	<i>COfiler® and Profiler Plus®</i>						
	3e	14,15	29,32.2		15,17 9,12 X,X	11,11	8,9 14,20 22,23 18,18
QBLMVT	<i>Identifiler®</i>						
	3e	14,15 13,14	18,20 29,32.2		15,17 9,[11],12 X 7,[8],9	11 9,12 12 8,12	8,9 14,20 22,23 18
QZQA49	<i>Identifiler®</i>						
	3e	[12],14,15 13,14,[15]	[17],18,[19],20 [28],29,[30],32.2		[14],15,17 9,[11],12 X,X,[Y] [6],7,[8],9	11,11,[12] 9,[10],12 [10],12,12 8,[11],12	[7],8,9 14,16,20 [18],22,23 18,18,[19]
R2ULYF	<i>Identifiler® Plus</i>						
	3e	[12]*,14,15 13,14,[15]*	18,20 [28],29,[30]*,32.2		15,17 9,12 X,[Y]* [6],7,[8],9	11,[12]* 9,[10]*,12 [10]*,12 8,12	8,9 14,[16]*,20 [18]*,22,23 18,[19]*
R38ZLN	<i>NGM SElect</i>						
	3e	(15),16,16,(17.3) (12),14,15 13,14	18,(19),20 16,16,(18) (28),29,32.2	11,15 17,18,(23) (11),15,16 (16),(18),24.2,25.2	15,17 X,X,(Y) (6),7,(8),9	9,(10),12	14,(15),(16),20 (18),22,23 18,18
RAL49G	<i>Identifiler® Plus</i>						
	3e	[12],14,15 13,14	[17],18,20 [28],29,[30],32.2		15,17 9,[11],12 X,X [6],7,[8],9	11,[12] 9,12 [10],12 8,[11],12	8,9 14,[16],20 [18],22,23 18,[19]
RCC7HC	<i>Identifiler® Plus</i>						
	3e	[12],14,15 13,14	18,20 29,32.2		14,15,17 9,11,12 X 6,7,[8],9	11,[12] 9,12 12 8,12	[7],8,9 14,20 22,23 18
RJA3YM	<i>Identifiler® Plus</i>						
	3e	14,15 13,14	18,20 29,32.2		15,17 9,12 X,X 7,9	11 9,12 12 8,12	8,9 14,20 22,23 18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3e							
RN4YLT	<i>Identifiler® PLUS, PowerPlex® HS, POWER PLEX ESX-17</i>						
3e	15,16,17.3 12,14,15 13,14,15 10,11,14	17,18,19,20 13,16 28,29,30,32.2 7,8,12	11,15 17,18,23 11,15,16 16,18,24.2,25.2	14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19	
T4Z7LF	<i>Identifiler® Plus</i>						
3e	[12],14,15 13,14,[15]*	[17],18,[19],20 [28],29,[30],32.2		15,17 9,[11],12 X,[Y]* [6],7,[8],9	11,[12] 9,[10],12 [10]*,12 8,[11]*,12	8,9 14,[16],20 [18],22,23 18,[19]*	
T4Z9CJ	<i>Identifiler® , SGM Plus</i>						
3e	12,14,15 13,14,15	18,19,20 29,30,32.2		14,15,17 9,12 X,Y 7,9	11,12 9,10,12 10,12 8,12	8,9 14,16,20 18,22,23 18,18	
TD2XMT	<i>PowerPlex® Fusion</i>						
3e	16,[17.3] [12],14,15 13,14,[15] 10,[11],14	18,[19],20 [13],16 [28],29,[30],32.2 8	11,15 17,18,[23] [11],15,16	15,17 9,[11],12 X,[Y] [6],7,[8],9	11,[12] 9,[10],12 [10],12 8,[11],12	8,9 14,[16],20 [18],22,23 [17],18,[19]	
TNKCNB	<i>Identifiler® Plus</i>						
3e	[12],14,15 13,14,[15]	[17],18,[19],20 [28],29,[30],32.2		[14],15,17 9,[11],12 X,[Y] [6],7,[8],9	11 9,[10],12 [10],12 8,[11],12	[7],8,9 14,[16],20 22,23 [17],18,[19]	
TX7GXV	<i>Identifiler® Identifiler Plus</i>						
3e	14,15 13,14	18,20 29,32.2		15,17 9,12 X,X 7,9	11 9,12 12 8,12	8,9 14,20 22,23 18	
UHCB38	<i>Identifiler® Plus</i>						
3e	[12],14,15 13,14,[15]	[17],18,[19],20 [28],29,[30],32.2		15,17 9,[11],12 X,X [6],7,[8],9	11,11,[12] 9,[10],12 [10],12,12 8,[11],12	[7],8,9 14,[16],20 22,23 18,18	
UNEHGA	<i>Identifiler® Plus</i>						
3e	[12],14,15 13,14,[15]	18,[19],20 [28],29,[30],32.2		[14],15,17 9,[11],12 X,X [6],7,[8],9	11,11,[12] 9,[10],12 [10],12,12 8,[11],12	8,9 14,[16],20 [18],22,23 18,18,[19]	
URDW6Y	<i>Identifiler® Plus</i>						
3e	[12],14,15 13,14	[17],18,[19],20 [28],29,[30],32.2		15,17 9,[11],12 X [6],7,[8],9	11 9,[10],12 12 8,[11],12	[7],8,9 14,[16],20 22,23 18,[19]	

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3e							
URHBFE	<i>Identifiler® ID-Plus</i>						
	3e	-	18,20	-	15,17	11,11	8,9
		14,15	-	-	9,12	9,12	14,20
		13,14	29,32.2	-	X,X	12,12	22,23
		-	-	-	7,9	8,12	18,18
V2KTNW	<i>Identifiler® Plus</i>						
	3e		[17],18,[19],20		[14],15,17	11,[12]	[7],8,9
		[12],14,15			9,[11],12	9,[10],12	14,[16],20
		13,14	[28],29,[30],32.2		X,[Y]	[10],12	[18],22,23
					[6],7,[8],9	8,[11],12	[17],18,[19]
VB48PD	<i>PowerPlex® 16</i>						
	3e				15,17	11	8,9
		14,15			9,11,12	9,10,12	14,16,20
			28,29,30,32.2		X,Y	10,12	18,22,23
		10,11,14	8		6,7,8,9	8,11,12	18
VGBV6Z	<i>Identifiler® Plus</i>						
	3e		17,18,20		15,17	11	8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14	28,29,30,32.2		X	10,12	18,22,23
					6,7,8,9	8,11,12	18
VW89LG	<i>Identifiler®</i>						
	3e		18,19,20		14,15,17	11,11	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					7,8,9	8,11,12	18,19
VXZ2EE	<i>Identifiler® Plus</i>						
	3e		[17],18,[19],20		15,17	11,11	8,9
		14,15			9,[11],12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					[6],7,[8],9	8,12	18,18
W3AJBM	<i>Identifiler® Plus</i>						
	3e		18,20		15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18
W869UE	<i>PowerPlex® Fusion</i>						
	3e	16	18,20	11,15	15,17	11	8,9
		14,15	16	17,18	9,12	9,12	14,20
		13,14	29,32.2	15,16	X	12	22,23
		10,14	8		7,9	8,12	18
WND6BT	<i>PowerPlex® Fusion</i>						
	3e	16	[17],18,[19],20	11,15	15,17	11,[12]	8,9
		[12],14,15	[13],16	17,18	9,12	9,[10],12	14,[16],20
		13,14	[28],29,32.2	[11],15,16	X	[10],12	22,23
		10,14	8		[6],7,[8],9	8,[11],12	18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3e							
WW2XL4	PowerPlex® 16						
	3e	[12],14,15	[28],29,[30],32.2		[14],15,17	11,[12]	[7],8,9
		10,[11],14	[7],8,[12]		9,[11],12	9,[10],12	14,[16],20
					X,[Y]	[10],12	[18],22,23
					[6],7,[8],9	8,[11],12	[17],18
XJE7HF	Identifiler® , MiniFiler						
	3e		17,18,19,20		15,17	11,11	8,9
		12,14,15			9,12	9,12	14,16,20
		13,14,15	29,32.2		X,Y	10,12	18,22,23
					7,9	8,12	18,18
XKLRM8	PowerPlex® 16						
	3e				14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
			28,29,30,32.2		X,Y	10,12	18,22,23
		10,11,14	8		6,7,8,9	8,11,12	18
XN8A8D	Globalfiler						
	3e	16,16	18,20	11,15	15,17	11,11	8,9
		14,15	16,16	17,18	9,12	9,12	14,20
		13,14	29,32.2	15,16	X,X	12,12	22,23
				24.2,25.2	7,9	8,12	18,18
YALGUQ	PowerPlex® Fusion						
	3e	16,[17.3]	18,[19],20	11,15	15,17	11	8,9
		14,15	16	17,18	9,12	9,[10],12	14,20
		13,14	29,[30],32.2	15,16	X	12	22,23
		10,14	8		7,9	8,12	18
YHB6PT	PowerPlex® Fusion						
	3e	[15],16,[17.3]	[17],18,[19],20	11,15	[14],15,17	11,[12]	[7],8,9
		[12],14,15	[13],16	17,18,[23]	9,[11],12	9,[10],12	14,[16],20
		13,14,[15]	[28],29,[30],32.2	[11],15,16	X,[Y]	[10],12	[18],22,23
		10,[11],14	8,[12]		[6],7,[8],9	8,[11],12	[17],18,[19]
YK2C86	Identifiler® Identifiler Plus						
	3e		[17],18,[19],20		[14],15,17	11,11,[12]	[7],8,9
		[12],14,15			9,[11],12	9,[10],12	14,[16],20
		13,14,[15]	[28],29,[30],32.2		X,X,[Y]	[10],12,12	[18],22,23
					[6],7,[8],9	8,[11],12	[17],18,18,[19]
YLEW3Z	Identifiler® Plus						
	3e		18,[19],20		15,17	11,[12]	8,9
		[12],14,15			9,[11],12	9,[10],12	14,[16],20
		13,14,[15]	[28],29,[30],32.2		X	[10],12	[18],22,23
					[6],7,[8],9	8,12	18,[19]
YZVNR	Identifiler®						
	3e		18,20		15,17	11,11	8,9
		14,15			9,12	9,12	14,20
		13,14	29,32.2		X,X	12,12	22,23
					7,9	8,12	18,18

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3e							
Z4CBZ6	<i>Identifiler® Plus</i>						
	3e	18,20			15,17	11	8,9
		12,14,15			9,12	9,12	14,20
		13,14	29,30,32.2		X	12	22,23
					7,9	8,11,12	18
ZEWKMD	<i>Identifiler®</i>						
	3e	[17],18,[19],20			[14],15,17	11,[12]	[7],8,9
		[12],14,15			9,[11],12	9,[10],12	14,16,20
		13,14,[15]	[28],29,[30],32.2		X,[Y]	[10],12	[18],22,23
					[6],7,[8],9	8,[11],12	[17],18,[19]
ZGZM7M	<i>PowerPlex® Fusion</i>						
	3e	16	18,20	11,15	[14],15,17	11	8,9
		[12],14,15	[13],16	17,18	9,12	9,[10],12	14,20
		13,14,[15]	29,[30],32.2	15,16	X	12	22,23
		10,14	8		7,[8],9	8,[11],12	18
ZH9WXX	<i>PowerPlex® Fusion</i>						
	3e	[15],16,[17.3]	[17],18,20	11,15	[14],15,17	11,[12]	[7],8,9
		[12],14,15	[13],16	17,18,[23]	9,[11],12	9,[10],12	14,[16],20
		13,14,[15]	[28],29,[30],32.2	[11],15,16	X	[10],12	[18],22,23
		10,[11],14	8,[12]		[6],7,[8],9	8,[11],12	18,[19]
ZNJTZA	<i>PowerPlex® 16</i>						
	3e				[14],15,17	11	8,9
		14,15			9,[11],12	9,[10],12	14,[16],20
			29,[30],32.2		X,[Y]	12	22,23
		10,14	8		7,[8],9	8,[11],12	18
ZPUNQ8	<i>Identifiler® Plus</i>						
	3e		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3sp							
246VXN	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,[18],19
2BQLKJ	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
2DVA72	<i>PowerPlex® 16 HS</i>						
	3sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
2EN6MH	<i>Identifiler®</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
2JJWUE	<i>Identifiler®</i>						
	3sp		17,19		14,[15],17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,[18],19
3E8D9R	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
3HKBGE	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
3UXFPV	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
3YVP44	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3sp							
48ETGV	<i>Identifiler® Plus</i>						
	3sp	17,19			14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
4E2C66	<i>Identifiler® Plus</i>						
	3sp	17,19			14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
4G6DLT	<i>Identifiler® Plus</i>						
	3sp	17,19			14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,18,19
4NNE4R	<i>PowerPlex® ESI 16</i>						
	3sp	15,17.3	17,19	11,11	14,17	-	-
		12,14	13,13	18,23	-	9,10	16,16
		14,15	28,30	11,16	X,Y	-	18,23
		-	-	-	6,8	-	17,19
4XTHDV	<i>Identifiler®</i>						
	3sp	17,19			14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
636PEZ	<i>PowerPlex® 21</i>						
	3sp	15,17.3	17,19		14,17	11,12	7,9
		12,14		18,23	9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
69RK9C	<i>Identifiler® Plus</i>						
	3sp	17,19			14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
6K4ZXW	<i>Identifiler®</i>						
	3sp	17,19			14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
7CMTQR	<i>Identifiler® Plus</i>						
	3sp	17,19			14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3sp							
7LDAPU	<i>Identifiler®</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
7NH436	<i>PowerPlex® Fusion</i>						
	3sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
7PW9YH	<i>Identifiler® Plus</i>						
	3sp	-	17,19	-	14,17	11,12	7,9
		12,14	-	-	9,11	9,10	16
		14,15	28,30	-	X,Y	10,12	18,23
		-	-	-	6,8	8,11	17,19
7VGJUX	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
7ZQPNI	<i>Identifiler®</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
8E7AJW	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
8QMRFA	<i>Identifiler® Plus</i>						
	3sp	-	17,19	-	14,17	11,12	7,9
		12,14	-	-	9,11	9,10	16,16
		14,15	28,30	-	X,Y	10,12	18,23
		-	-	-	6,8	8,11	17,19
92D348	<i>Identifiler® Plus</i>						
	3sp	-	17,19	-	14,17	11,12	7,9
		12,14	-	-	9,11	9,10	16
		14,15	28,30	-	X,Y	10,12	18,23
		-	-	-	6,8	8,11	17,19
9MHHN6	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,[18],19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3sp							
9P4KDP	<i>Identifiler®</i>						
	3sp	17,19			14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
AUC4AW	<i>Identifiler®</i>						
	3sp	17,19			14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
AUWRP7	<i>Identifiler® Plus</i>						
	3sp	17,19			14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
B3K2BL	<i>Identifiler® Plus</i>						
	3sp	17,19			14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
B4FM3Q	<i>NGM Select</i>						
	3sp	15,17.3	17,19	11,11	14,17		
		12,14	13,13	18,23		9,10	16,16
		14,15	28,30	11,16	X,Y		18,23
				16,18	6,8		17,19
BA4AWW	<i>PowerPlex® 16</i>						
	3sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
BC798P	<i>PowerPlex® 16</i>						
	3sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
BEGAVA	<i>PowerPlex® FUSION, ESI, CS7</i>						
	3sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12	16,18	6,8	8,11	17,19
BFBQEX	<i>Identifiler® Plus</i>						
	3sp	17,19			14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3sp							
BN42NT	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
BYKT7B	<i>PowerPlex® Fusion</i>						
	3sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,[18],19
CEB9P2	<i>Identifiler® , MiniFiler, SGM Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
CMNA3P	<i>Identifiler®</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
CNX8HR	<i>PowerPlex® 21</i>						
	3sp	15,17.3	17,19		14,17	11,12	7,9
		12,14		18,23	9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
		11,11	7,12		6,8	8,11	17,19
D8PMCM	<i>PowerPlex® 16</i>						
	3sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
DCJJYT	<i>PowerPlex® 16</i>						
	3sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
DFKHYY	<i>Identifiler®</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
DGDDYF	<i>Global Filer</i>						
	3sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3sp							
DHLPDW	<i>PowerPlex® 16</i>						
	3sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
E2FNHA	<i>PowerPlex® Fusion</i>						
	3sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
E6X6BE	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
ECDNTT	<i>PowerPlex® 16</i>						
	3sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
EHKC9E	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,[18],19
EMGUTL	<i>Identifiler®</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
EXH84U	<i>PowerPlex® 16</i>						
	3sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
F3P6XK	<i>Identifiler®</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
F6ECGV	<i>Identifiler® , SGM Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3sp							
F6VTBP	ESX16						
	3sp	15,17.3 12,14 14,15	17,19 13 28,30	11 18,23 11,16	14,17 X,Y 6,8	9,10	16 18,23 17,19
FBJJUJ	PowerPlex® 16						
	3sp	12,14 11	28,30 7,12		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19
FGRLZF	Identifiler®						
	3sp	12,14 14,15	17,19 28,30		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19
FZHMZN	PowerPlex® 21						
	3sp	15,17.3 12,14 14,15 11,11	17,19 28,30 7,12	18,23	14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16,16 18,23 17,19
G2B2ZL	PowerPlex® 16 HS						
	3sp	12,14 11	28,30 7,8,12		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11,12	7,9 16 18,23 17,19
GAJHML	Identifiler® Plus						
	3sp	12,14 14,15	17,19 28,30		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16,16 18,23 17,19
GB2L6K	Identifiler® Identifiler Plus						
	3sp	12,14 14,15	17,19 28,30		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19
GDJN7X	Identifiler® Plus						
	3sp	- 12,14 14,15 -	17,19 - 28,30 -	- - - -	14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19
H4TPQC	Identifiler®						
	3sp	12,14 14,15	17,19 28,30		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3sp							
HE8J4Q	<i>PowerPlex® 16</i>						
	3sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
HKHPQP	<i>Identifiler® Plus, MiniFiler</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
J6JZAH	<i>Identifiler®</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
J9JFCE	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
JNT6QZ	<i>Identifiler®</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
JRWTC	<i>Identifiler®</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
JUMZUT	<i>Identifiler® , SGMPlus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
JUZQLP	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
KJGJDM	<i>PowerPlex® 16</i>						
	3sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3sp							
KUG886	PowerPlex®						
	3sp	15,17.3 12,14 14,15 11	17,19 13 28,30 7,12	11 18,23 11,16	14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19
KYC4UB	Identifiler® Plus						
	3sp		17,19		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16,16 18,23 17,19
L2BYT4	Global Filer						
	3sp	15,17.3 12,14 14,15	17,19 13 28,30	11 18,23 11,16 16,18	14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19
L4Z6BF	Identifiler®						
	3sp		17,19		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19
L9EL7D	Identifiler® Plus, MiniFiler also on 3 (sperm)						
	3sp		17,19		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19
LHHVEN	Identifiler® Plus						
	3sp		17,19		14,17 9,11 [X],[Y] 6,8	11,12 9,10 10,12 8,11	7,[9] 16,16 18,[23] 17,19
LL3KY2	PowerPlex® Fusion						
	3sp	15,17.3 12,14 14,15 11	17,19 13 28,30 7,12	11 18,23 11,16	14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19
LN92DK	Identifiler® Plus						
	3sp		17,19		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16,16 18,23 17,19
LXV4D8	ESI 17 (seminal fraction & epithelial fraction)						
	3sp	15,17.3 12,14 14,15	17,19 13,13 28,30	11,11 18,23 11,16 16,18	14,17 X,Y 6,8	9,10	16,16 18,23 17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3sp							
LYQP4C	<i>Identifiler® Identifiler Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
LZYYWA	<i>Identifiler® Identifiler Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
M3LZDH	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
M3YR6Y	<i>PowerPlex® ES16, In-House kit</i>						
	3sp	15,[16],17.3	17,19	11	14,17		
		12,14	13,[16]	18,23		9,10	[14],16
		14,15	28,30	11,16	X,Y		18,23
					6,8		17,19
MEVDUH	<i>PowerPlex® 16</i>						
	3sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
MFR4LH	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
N27Y7A	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
N3GX6P	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
N72PE7	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3sp							
NAERYG	<i>PowerPlex® 16</i>						
	3sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
NBTWWE	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
NGW4CH	<i>PowerPlex® 16</i>						
	3sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
NKY2MA	<i>Identifiler® ID+</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
NM4H4E	<i>PowerPlex® 16 HS</i>						
	3sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
NVGAUC	<i>Identifiler®</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
NVXTCN	<i>GlobalFiler</i>						
	3sp	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
				16,18	6,8	8,11	17,19
PKUYCW	<i>PowerPlex® Fusion</i>						
	3sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
PTKKHU	<i>Identifiler® , PowerPlex® 16 HS</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3sp							
PXZVTD	<i>Identifiler® Plus</i>						
	3sp	12,14 14,15	17,19 28,30		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16,16 18,23 17,19
Q2YQUR	<i>COfiler® and Profiler Plus®</i>						
	3sp	12,14	28,30		14,17 9,11 X,Y	11,12	7,9 16,16 18,23 17,19
QBLMVT	<i>Identifiler®</i>						
	3sp	12,14 14,15	17,19 28,30		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19
QZQA49	<i>Identifiler®</i>						
	3sp	12,14 14,15	17,19 28,30		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16,16 18,23 17,19
R2ULYF	<i>Identifiler® Plus</i>						
	3sp	12,14,[15]* 14,15	17,19 [20]* 28,[29],30,[32.2]*		14,[15]*,17 9,11,[12]* X,Y 6,8,[9]*	11,12 9,10,[12]* 10,12 8,11,[12]*	7,9 [14]*,16 18,23 17,[18]*,19
R38ZLN	<i>NGM SElect</i>						
	3sp	15,17.3 12,14 14,15	17,19 13,13 28,30	11,11 18,23 11,16 16,18	14,17 X,Y 6,8	9,10	16,16 18,23 17,19
RAL49G	<i>Identifiler® Plus</i>						
	3sp	12,14 14,15	17,19 28,30		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16,16 18,23 17,19
RCC7HC	<i>Identifiler® Plus</i>						
	3sp	12,14 14,15	17,19 28,30		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19
RJA3YM	<i>Identifiler® Plus</i>						
	3sp	12,14 14,15	17,19 28,30		14,17 9,11 X,Y 6,8	11,12 9,10 10,12 8,11	7,9 16 18,23 17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3sp							
RN4YLT	<i>Identifiler® PLUS, PowerPlex® HS, POWER PLEX ESX-17</i>						
	3sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12	16,18	6,8	8,11	17,19
T4Z7LF	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
T4Z9CJ	<i>Identifiler® , SGM Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
TD2XMT	<i>PowerPlex® Fusion</i>						
	3sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
TNKCNB	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
TX7GXV	<i>Identifiler® Identifiler Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
UHCB38	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
UNEHGA	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
URDW6Y	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3sp							
URHBFE	<i>Identifiler® ID-Plus</i>						
	3sp	-	17,19	-	14,17	11,12	7,9
		12,14	-	-	9,11	9,10	16,16
		14,15	28,30	-	X,Y	10,12	18,23
		-	-	-	6,8	8,11	17,19
V2KTNW	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
VB48PD	<i>PowerPlex® 16</i>						
	3sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
VGBV6Z	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
VW89LG	<i>Identifiler®</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
VXZ2EE	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,[7],8	8,11	17,[18],19
W3AJBM	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
W869UE	<i>PowerPlex® Fusion</i>						
	3sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
WND6BT	<i>PowerPlex® Fusion</i>						
	3sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3sp							
WW2XL4	<i>PowerPlex® 16</i>						
	3sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
	11		7,12		6,8	8,11	17,19
XJE7HF	<i>Identifiler® , MiniFiler</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
				6,8	8,11	17,19	
XKLRM8	<i>PowerPlex® 16</i>						
	3sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
	11		7,12		6,8	8,11	17,19
XN8A8D	<i>Globalfiler</i>						
	3sp	15,17.3	17,19	11,11	14,17	11,12	7,9
		12,14	13,13	18,23	9,11	9,10	16,16
		14,15	28,30	11,16	X,Y	10,12	18,23
			16,18	6,8	8,11	17,19	
YALGUQ	<i>PowerPlex® Fusion</i>						
	3sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
	11		7,12		6,8	8,11	17,19
YHB6PT	<i>PowerPlex® Fusion</i>						
	3sp	15,[16],17.3	17,19	11	14,[15],17	11,12	7,9
		12,14,[15]	13,[16]	18,23	9,11	9,10,[12]	[14],16
		[13],14,15	28,30	11,16	X,Y	10,12	18,23
	11	7,[8],12		6,[7],8,[9]	8,11	17,[18],19	
YK2C86	<i>Identifiler® Identifiler Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
				6,8	8,11	17,19	
YLEW3Z	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
				6,8	8,11	17,19	
YZVNR	<i>Identifiler®</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
				6,8	8,11	17,19	

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 3sp							
Z4CBZ6	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
ZEWKMD	<i>Identifiler®</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16,16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19
ZGZM7M	<i>PowerPlex® Fusion</i>						
	3sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
ZH9WXX	<i>PowerPlex® Fusion</i>						
	3sp	15,17.3	17,19	11	14,17	11,12	7,9
		12,14	13	18,23	9,11	9,10	16
		14,15	28,30	11,16	X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,[18],19
ZNJTZA	<i>PowerPlex® 16</i>						
	3sp				14,17	11,12	7,9
		12,14			9,11	9,10	16
			28,30		X,Y	10,12	18,23
		11	7,12		6,8	8,11	17,19
ZPUNQ8	<i>Identifiler® Plus</i>						
	3sp		17,19		14,17	11,12	7,9
		12,14			9,11	9,10	16
		14,15	28,30		X,Y	10,12	18,23
					6,8	8,11	17,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4							
246VXN	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
2BQLKJ	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
2DVA72	<i>PowerPlex® 16 HS</i>						
	4				14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
			28,29,30,32.2		X,Y	10,12	18,22,23
		10,11,14	7,8,12		6,7,8,9	8,11,12	17,18,19
2EN6MH	<i>Identifiler®</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
2JJWUE	<i>Identifiler®</i>						
	4		17,18,19,20		14,15,17	11,[12]	[7],[8],9
		12,14,15			9,11,12	9,[10],12	14,16,20
		13,14,15	28,[29],30,32.2		X,[Y]	[10],12	18,[22],23
					6,7,8,9	8,[11],[12]	17,18,19
3E8D9R	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
3HKBGE	<i>Identifiler® Plus</i>						
	4		17,18,19,20		[14],[15],17	11,[12]	[7],[8],9
		[12],14,[15]			9,[11],[12]	9,[10],[12]	[14],16,[20]
		[13],14,[15]	28,29,30,32.2		X,[Y]	[10],12	[18],[22],23
					6,7,8,9	8,[11],[12]	[17],18,[19]
3UXFPV	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
3YVP44	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4							
48ETGV	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
4E2C66	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
4G6DLT	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
4NNE4R	<i>PowerPlex® ESI 16</i>						
	4	[15],16,[17.3]	17,18,19,20	11,[15]	[14],[15],17	-	-
		[12],14,[15]	13,16	17,18,23	-	9,[10],[12]	[14],16,[20]
		[13],14,[15]	28,29,30,32.2	11,15,16	X,[Y]	-	[18],[22],23
		-	-	-	6,7,8,9	-	[17],18,[19]
4XTHDV	<i>Identifiler®</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
636PEZ	<i>PowerPlex® 21</i>						
	4	15,16,17.3	17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15		17,18,23	9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
		10,11,14	7,8,12		6,7,8,9	8,11,12	17,18,19
69RK9C	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
6K4ZXW	<i>Identifiler®</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
7CMTQR	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4							
7LDAPU	<i>Identifiler®</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
7NH436	<i>PowerPlex® Fusion</i>						
	4	15,16,17.3	17,18,19,20	11,15	14,15,16	11,12	7,8,9
		12,14,15	13,16	17,18,23	9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2	11,15,16	X,Y	10,12	18,22,23
		10,11,14	7,8,12		6,7,8,9	8,11,12	17,18,19
7PW9YH	<i>Identifiler® Plus</i>						
	4	-	17,18,19,20	-	14,15,17	11,12	7,8,9
		12,14,15	-	-	9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2	-	X,Y	10,12	18,22,23
		-	-	-	6,7,8,9	8,11,12	17,18,19
7VGJUX	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
7ZQPNI	<i>Identifiler®</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
8E7AJW	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
8QMRFA	<i>Identifiler® Plus</i>						
	4	-	17,18,19,20	-	14,15,17	11,12	7,8,9
		12,14,15	-	-	9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2	-	X,Y	10,12	18,22,23
		-	-	-	6,7,8,9	8,11,12	17,18,19
92D348	<i>Identifiler® Plus</i>						
	4	-	17,18,19,20	-	14,15,17	11,12	7,8,9
		12,14,15	-	-	9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2	-	X,Y	10,12	18,22,23
		-	-	-	6,7,8,9	8,11,12	17,18,19
9MHHN6	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4							
9P4KDP	<i>Identifiler®</i>						
	4	12,14,15 13,14,15	17,18,19,20 28,29,30,32.2		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
9W7GFA	<i>COfiler® and Profiler Plus®</i>						
	4	12,14,15	28,29,30,32.2		14,15,17 9,11,12 X,Y	11,12	7,8,9 14,16,20 18,22,23 16,17,18,19
AJDEC9	<i>COfiler® and Profiler Plus®</i>						
	4	12,14,15	28,29,30,32.2		14,15,17 9,11,12 X,Y	11,12	7,8,9 14,16,20 18,22,23 17,18,19
AUC4AW	<i>Identifiler®</i>						
	4	12,14,15 13,14,15	17,18,19,20 28,29,30,32.2		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
AUWRP7	<i>Identifiler® Plus</i>						
	4	12,14,15 13,14,15	17,18,19,20 28,29,30,32.2		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
B3K2BL	<i>Identifiler® Plus</i>						
	4	12,14,15 13,14,15	17,18,19,20 28,29,30,32.2		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
B4FM3Q	<i>NGM SElect</i>						
	4	15,16,17.3 12,14,15 13,14,15	17,18,19,20 13,16 28,29,30,32.2	11,15 17,18,23 11,15,16 16,18,24.2,25.2	14,15,17 X,Y 6,7,8,9	9,10,12	14,16,20 18,22,23 17,18,19
BA4AWW	<i>PowerPlex® 16</i>						
	4	12,14,15 10,11,14	28,29,30,32.2 7,8,12		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
BC798P	<i>PowerPlex® 16</i>						
	4	12,14,15 10,11,14	28,29,30,32.2 7,8,12		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4							
BEGAVA	<i>PowerPlex® FUSION, ESI, CS7</i>						
	4	15,16,17.3 12,14,15 13,14,15 10,11,14	17,18,19,20 13,16 28,29,30,32.2 7,8,12	11,15 17,18,23 11,15,16 16,18,24.2,25.2	14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
BFBQEX	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
BN42NT	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
BYKT7B	<i>PowerPlex® Fusion</i>						
	4	15,16,17.3 12,14,15 13,14,15 10,11,14	17,18,19,20 13,16 28,29,30,32.2 7,8,12	11,15 17,18,23 11,15,16	14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
CEB9P2	<i>Identifiler® , MiniFiler, SGM Plus</i>						
	4		17,18,19,20		[14],[15],17 9,[11],[12] X,[Y] 6,7,8,9	11,[12] 9,10,12 [10],12 8,[11],[12]	[7],[8],9 [14],16,[20] 18,22,23 [17],18,[19]
CEVUF7	<i>COfiler® and Profiler Plus®</i>						
	4				14,15,17 9,11,12 X,Y	11,12	7,8,9 14,16,20 18,22,23 17,18,19
CMNA3P	<i>Identifiler®</i>						
	4		17,18,19,20		[14],15,17 9,[11],[12] X,[Y] 6,7,8,9	11,[12] 9,[10],12 [10],12 8,[11],12	[7],[8],9 14,16,20 [18],22,23 [17],18,[19]
CNX8HR	<i>PowerPlex® 21</i>						
	4	15,16,17.3 12,14,15 13,14,15 10,11,14	17,18,19,20	17,18,23	14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
D8PMCM	<i>PowerPlex® 16</i>						
	4				14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4							
DCJYT	PowerPlex® 16						
	4				14,15,17	11,12	7,8,9
	12,14,15				9,11,12	9,10,12	14,16,20
		28,29,30,32.2			X,Y	10,12	18,22,23
	10,11,14	7,8,12			6,7,8,9	8,11,12	17,18,19
DFKHHY	Identifiler®						
	4		17,18,19,20		14,15,17	11,12	7,8,9
	12,14,15				9,11,12	9,10,12	14,16,20
	13,14,15	28,29,30,32.2			X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
DGDDYF	Global Filer						
	4	15,16,17.3	17,18,19,20	11,15	14,15,17	11,12	7,8,9
	12,14,15	13,16		17,18,23	9,11,12	9,10,12	14,16,20
	13,14,15	28,29,30,32.2		11,15,16	X,Y	10,12	18,22,23
				16,18,24.2,25.2	6,7,8,9	8,11,12	17,18,19
DHLPDW	PowerPlex® 16						
	4				14,15,17	11,12	7,8,9
	12,14,15				9,11,12	9,10,12	14,16,20
		28,29,30,32.2			X,Y	10,12	18,22,23
	10,11,14	7,8,12			6,7,8,9	8,11,12	17,18,19
E2FNHA	PowerPlex® Fusion						
	4	15,16,17.3	17,18,19,20	11,15	14,15,17	11,12	7,8,9
	12,14,15	13,16		17,18,23	9,11,12	9,10,12	14,16,20
	13,14,15	28,29,30,32.2		11,15,16	X,Y	10,12	18,22,23
	10,11,14	7,8,12			6,7,8,9	8,11,12	17,18,19
E6X6BE	Identifiler® Plus						
	4		17,18,19,20		14,15,17	11,12	7,8,9
	12,14,15				9,11,12	9,10,12	14,16,20
	13,14,15	28,29,30,32.2			X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
ECDNTT	PowerPlex® 16						
	4				14,15,17	11,12	7,8,9
	12,14,15				9,11,12	9,10,12	14,16,20
		28,29,30,32.2			X,Y	10,12	18,22,23
	10,11,14	7,8,12			6,7,8,9	8,11,12	17,18,19
EHKC9E	Identifiler® Plus						
	4		17,18,19,20		14,15,17	11,[12]	7,8,9
	12,14,15				9,11,12	9,10,12	14,16,20
	13,14,15	28,29,30,32.2			X,[Y]	[10],12	18,22,23
					6,7,8,9	8,11,12	17,18,19
EMGUTL	Identifiler®						
	4		17,18,19,20		14,15,17	11,12	7,8,9
	12,14,15				9,11,12	9,10,12	14,16,20
	13,14,15	28,29,30,32.2			X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4							
EXH84U	PowerPlex® 16						
	4				14,15,17	11,12	7,8,9
	12,14,15				9,11,12	9,10,12	14,16,20
			28,29,30,32.2		X,Y	10,12	18,22,23
	10,11,14		7,8,12		6,7,8,9	8,11,12	17,18,19
F3P6XK	Identifiler®						
	4		17,18,19,20		14,15,17	11,12	7,8,9
	12,14,15				9,11,12	9,10,12	14,16,20
	13,14,15		28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
F6ECGV	Identifiler® , SGM Plus						
	4		17,18,19,20		14,15,17	11,12	7,8,9
	12,14,15				9,11,12	9,10,12	14,16,20
	13,14,15		28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
F6VTBP	ESX16						
	4	15,16,17.3	17,18,19,20	11,15	14,15,17		
	12,14,15		13,16	17,18,23		9,10,12	14,16,20
	13,14,15		28,29,30,32.2	11,15,16	X,Y		18,22,23
					6,7,8,9		17,18,19
FBYJUJ	PowerPlex® 16						
	4				14,15,17	11,12	7,8,9
	12,14,15				9,11,12	9,10,12	14,16,20
			28,29,30,32.2		X,Y	10,12	18,22,23
	10,11,14		7,8,12		6,7,8,9	8,11,12	17,18,19
FGRLZF	Identifiler®						
	4		17,18,19,20		14,15,17	11,12	7,8,9
	12,14,15				9,11,12	9,10,12	14,16,20
	13,14,15		28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
FZHMZN	PowerPlex® 21						
	4	15,16,17.3	17,18,19,20		14,15,17	11,12	7,8,9
	12,14,15			17,18,23	9,11,12	9,10,12	14,16,20
	13,14,15		28,29,30,32.2		X,Y	10,12	18,22,23
	10,11,14		7,8,12		6,7,8,9	8,11,12	17,18,19
G2B2ZL	PowerPlex® 16 HS						
	4				14,15,17	11,12	7,8,9
	12,14,15				9,11,12	9,10,12	14,16,20
			28,29,30,32.2		X,Y	10,12	18,22,23
	10,11,14		7,8,12		6,7,8,9	8,11,12	17,18,19
GAJHML	Identifiler® Plus						
	4		17,18,19,20		14,15,17	11,12	7,8,9
	12,14,15				9,11,12	9,10,12	14,16,20
	13,14,15		28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4							
GB2L6K	<i>Identifiler® Identifiler Plus</i>						
	4	17,18,19,20			14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
GDJN7X	<i>Identifiler® Plus</i>						
	4	17,18,19,20		-	14,15,17	11,12	7,8,9
		12,14,15	-	-	9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2	-	X,Y	10,12	18,22,23
		-	-	-	6,7,8,9	8,11,12	17,18,19
H4TPQC	<i>Identifiler®</i>						
	4	17,18,19,20			14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
HE8J4Q	<i>PowerPlex® 16</i>						
	4				14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
			28,29,30,32.2		X,Y	10,12	18,22,23
		10,11,14	7,8,12		6,7,8,9	8,11,12	17,18,19
HKHPQP	<i>Identifiler® Plus</i>						
	4	17,18,19,20			14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
J6JZAH	<i>Identifiler®</i>						
	4	17,18,19,20			14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
J9JFCE	<i>Identifiler® Plus</i>						
	4	17,18,19,20			14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
JNT6QZ	<i>Identifiler®</i>						
	4	17,18,19,20			14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
JRWTC	<i>Identifiler®</i>						
	4	17,18,19,20			14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4							
JUMZUT	<i>Identifiler®</i> , <i>SGMPlus</i>						
	4	17,18,19,20			14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
JUZQLP	<i>Identifiler® Plus</i>						
	4	17,18,19,20			14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
KJGJDM	<i>PowerPlex® 16</i>						
	4				14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
			28,29,30,32.2		X,Y	10,12	18,22,23
		10,11,14	7,8,12		6,7,8,9	8,11,12	17,18,19
KUG886	<i>PowerPlex®</i>						
	4	15,16,17.3	17,18,19,20	11,15	14,15,17	11,12	7,8,9
		12,14,15	13,16	17,18,23	9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2	11,15,16	X,Y	10,12	18,22,23
		10,11,14	7,8,12		6,7,8,9	8,11,12	17,18,19
KYC4UB	<i>Identifiler® Plus</i>						
	4	17,18,19,20			14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
L2BYT4	<i>Global Filer</i>						
	4	15,16,17.3	17,18,19,20	11,15	14,15,17	11,12	7,8,9
		12,14,15	13,16	17,18,23	9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2	11,15,16	X,Y	10,12	18,22,23
				16,18,24.2,25.2	6,7,8,9	8,11,12	17,18,19
L4Z6BF	<i>Identifiler®</i>						
	4		[17],18,[19],20		[14],15,17	11,[12]	[7],8,9
		[12],14,15			9,[11],12	9,[10],[12]	14,16,20
		13,14,[15]	28,29,30,32.2		X,[Y]	[10],12	[18],22,23
					[6],7,[8],9	8,[11],12	[17],18,[19]
L9EL7D	<i>Identifiler® Plus</i>						
	4	17,18,19,20			14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
LHHVEN	<i>Identifiler® Plus</i>						
	4	17,18,19,20			14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4							
LL3KY2	<i>PowerPlex® Fusion</i>						
	4	15,16,17.3 12,14,15 13,14,15 10,11,14	17,18,19,20 13,16 28,29,30,32.2 7,8,12	11,15 17,18,23 11,15,16	14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
LN92DK	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
LXV4D8	<i>ESI (Conditioned using suspect DNA profile)</i>						
	4	16,16 15,F 13,14	18,20 16,16 29,32.2	15,F 17,18 15,16 24.2,25.2	15,F X,X 7,9	12,F	14,20 22,23 18,18
LYQP4C	<i>Identifiler® Identifiler Plus</i>						
	4		17,18,19,20		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
LZYYWA	<i>Identifiler® Identifiler Plus</i>						
	4		17,18,19,20		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
M3LZDH	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
M3YR6Y	<i>PowerPlex® ES116, In-house kit</i>						
	4	15,16,17.3 [12],14,[15] [13],14,[15]	17,18,19,20 13,16 28,29,30,32.2	11,[15] 17,18,[23] 11,15,16	14,15,17 X,[Y] 6,7,8,9	9,[10,12]	14,16,20 18,22,23 17,18,[19]
MEVDUH	<i>PowerPlex® 16</i>						
	4				14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
MFR4LH	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4							
N27Y7A	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
N3GX6P	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
N72PE7	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
NAERYG	<i>PowerPlex® 16</i>						
	4				14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
			28,29,30,32.2		X,Y	10,12	18,22,23
		10,11,14	7,8,12		6,7,8,9	8,11,12	17,18,19
NBTWWE	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
NGW4CH	<i>PowerPlex® 16</i>						
	4				14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
			28,29,30,32.2		X,Y	10,12	18,22,23
		10,11,14	7,8,12		6,7,8,9	8,11,12	17,18,19
NKY2MA	<i>Identifiler® ID+</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
NM4H4E	<i>PowerPlex® 16 HS</i>						
	4				14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
			28,29,30,32.2		X,Y	10,12	18,22,23
		10,11,14	7,8,12		6,7,8,9	8,11,12	17,18,19
NVGAUC	<i>Identifiler®</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4							
NVXTCN	<i>GlobalFiler</i>						
	4	15,16,17.3 12,14,15 13,14,15	17,18,19,20 13,16 28,29,30,32.2	11,15 17,18,23 11,15,16 16,18,24.2,25.2	14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
PKUYCW	<i>PowerPlex® Fusion</i>						
	4	15,16,17.3 12,14,15 13,14,15 10,11,14	17,18,19,20 13,16 28,29,30,32.2 7,8,12	11,15 17,18,23 11,15,16	14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
PTKKHU	<i>Identifiler® , PowerPlex® 16 HS</i>						
	4	12,14,15 13,14,15 10,11,14	17,18,19,20 28,29,30,32.2 7,8,12		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
PXZVTD	<i>Identifiler® Plus</i>						
	4	12,14,15 13,14,15	17,18,19,20 28,29,30,32.2		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
Q2YQUR	<i>COfiler® and Profiler Plus®</i>						
	4	12,14,15	28,29,30,32.2		14,15,17 9,11,12 X,Y	11,12	7,8,9 14,16,20 18,22,23 17,18,19
QBLMVT	<i>Identifiler®</i>						
	4	12,14,15 13,14,15	17,18,19,20 28,29,30,32.2		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
QZQA49	<i>Identifiler®</i>						
	4	12,14,15 13,14,15	17,18,19,20 28,29,30,32.2		14,15,17 9,11,12 X,X,[Y] 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
R2ULYF	<i>Identifiler® Plus</i>						
	4	12,14,15 13,14,15	17,18,19,20 28,29,30,32.2		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
R38ZLN	<i>NGM SElect</i>						
	4	15,16,17.3 12,14,15 13,14,(14.2),15	17,18,19,20 13,16,(18) 28,29,30,32.2	11,15 17,18,23 11,15,16 16,18,24.2,25.2	14,15,17 X,Y 6,7,8,9	9,10,12	14,16,20 18,22,23 17,18,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4							
RAL49G	<i>Identifiler® Plus</i>						
	4	12,14,15 13,14,15	17,18,19,20 28,29,30,32.2		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
RCC7HC	<i>Identifiler® Plus</i>						
	4	12,14,15 13,14,15	17,18,19,20 28,29,30,32.2		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
RJA3YM	<i>Identifiler® Plus</i>						
	4	12,14,15 13,14,15	17,18,19,20 28,29,30,32.2		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
RN4YLT	<i>Identifiler® PLUS, PowerPlex® HS, POWER PLEX ESX-17</i>						
	4	15,16,17.3 12,14,15 13,14,15 10,11,14	17,18,19,20 13,16 28,29,30,32.2 7,8,12	11,15 17,18,23 11,15,16 16,18,24.2,25.2	14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
T4Z7LF	<i>Identifiler® Plus</i>						
	4	12,14,15 13,14,15	17,18,19,20 28,29,30,32.2		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
T4Z9CJ	<i>Identifiler® , SGM Plus</i>						
	4	12,14,15 13,14,15	17,18,19,20 28,29,30,32.2		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
TD2XMT	<i>PowerPlex® Fusion</i>						
	4	15,16,17.3 12,14,15 13,14,15 10,11,14	17,18,19,20 13,16 28,29,30,32.2 7,8,12	11,15 17,18,23 11,15,16	14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
TNKCNB	<i>Identifiler® Plus</i>						
	4	12,14,15 13,14,15	17,18,19,20 28,29,30,32.2		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
TX7GXV	<i>Identifiler® Identifiler Plus</i>						
	4	12,14,15 13,14,15	17,18,19,20 28,29,30,32.2		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4							
UHCB38	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
UNEHGA	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
URDW6Y	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
V2KTNW	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
VB48PD	<i>PowerPlex® 16</i>						
	4				14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
			28,29,30,32.2		X,Y	10,12	18,22,23
		10,11,14	7,8,12		6,7,8,9	8,11,12	17,18,19
VGBV6Z	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
VW89LG	<i>Identifiler®</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
VXZ2EE	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
W3AJBM	<i>Identifiler® Plus</i>						
	4		[17],18,[19],20		[14],15,17	11,[12]	[7],8,9
		[12],14,15			9,[11],12	9,[10],12	14,16,20
		13,14,[15]	[28],29,[30],32.2		X,[Y]	[10],12	[18],22,23
					[6],7,[8],9	8,[11],12	[17],18,[19]

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4							
W869UE	PowerPlex® Fusion						
	4	15,16,17.3 12,14,15 13,14,15 10,11,14	17,18,19,20 13,16 28,29,30,32.2 7,8,12	11,15 17,18,23 11,15,16	14,15,16 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
WND6BT	PowerPlex® Fusion						
	4	15,16,17.3 12,14,15 13,14,15 10,11,14	17,18,19,20 13,16 28,29,30,32.2 7,8,12	11,15 17,18,23 11,15,16	14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
WW2XL4	PowerPlex® 16						
	4	12,14,15 10,11,14	28,29,30,32.2 7,8,12		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
XJE7HF	Identifiler® , MiniFiler						
	4	12,14,15 13,14,15	17,18,19,20 28,29,30,32.2		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
XKLRM8	PowerPlex® 16						
	4	12,14,15 10,11,14	28,29,30,32.2 7,8,12		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
XN8A8D	Globalfiler						
	4	15,16,17.3 12,14,15 13,14,15	17,18,19,20 13,16 28,29,30,32.2	11,15 17,18,23 11,15,16 16,18,24.2,25.2	14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
YALGUQ	PowerPlex® Fusion						
	4	15,16,17.3 12,14,15 13,14,15 10,11,14	17,18,19,20 13,16 28,29,30,32.2 7,8,12	11,15 17,18,23 11,15,16	14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19
YHB6PT	PowerPlex® Fusion						
	4	[15],16,[17.3] [12],14,15 13,14,[15] 10,11,14	17,18,19,20 13,16 28,29,30,32.2 [7],8,[12]	11,[15] 17,18,[23] [11],15,16	[14],15,17 9,[11],[12] X,[Y] [6],7,[8],9	11,[12] 9,[10],12 [10],12 8,[11],[12]	[7],[8],9 14,16,20 [18],22,23 [17],18,[19]
YK2C86	Identifiler® Identifiler Plus						
	4	12,14,15 13,14,15	17,18,19,20 28,29,30,32.2		14,15,17 9,11,12 X,Y 6,7,8,9	11,12 9,10,12 10,12 8,11,12	7,8,9 14,16,20 18,22,23 17,18,19

TABLE 1

WebCode	Item	D1S1656 D8S1179 D19S433 Penta D	D2S1338 D10S1248 D21S11 Penta E	D2S441 D12S391 D22S1045 SE33	D3S1358 D13S317 Amelogenin TH01	D5S818 D16S539 CSF1PO TPOX	D7S820 D18S51 FGA vWA
Item 4							
YLEW3Z	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
YZVNR	<i>Identifiler®</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
Z4CBZ6	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
ZEWKMD	<i>Identifiler®</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19
ZGZM7M	<i>PowerPlex® Fusion</i>						
	4	15,16,17.3	17,18,19,20	11,15	14,15,17	11,12	7,8,9
		12,14,15	13,16	17,18,23	9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2	11,15,16	X,Y	10,12	18,22,23
		10,11,14	7,8,12		6,7,8,9	8,11,12	17,18,19
ZH9WXK	<i>PowerPlex® Fusion</i>						
	4	15,16,17.3	17,18,19,20	11,15	14,15,17	11,12	7,8,9
		12,14,15	13,16	17,18,23	9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2	11,15,16	X,Y	10,12	18,22,23
		10,11,14	7,8,12		6,7,8,9	8,11,12	17,18,19
ZNJTZA	<i>PowerPlex® 16</i>						
	4				14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
			28,29,30,32.2		X,Y	10,12	18,22,23
		10,11,14	7,8,12		6,7,8,9	8,11,12	17,18,19
ZPUNQ8	<i>Identifiler® Plus</i>						
	4		17,18,19,20		14,15,17	11,12	7,8,9
		12,14,15			9,11,12	9,10,12	14,16,20
		13,14,15	28,29,30,32.2		X,Y	10,12	18,22,23
					6,7,8,9	8,11,12	17,18,19

TABLE 1

WebCode	Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
		D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
		D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
		Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4e

URHBFE	Identifiler® ID-Plus						
4e	-	18,20	-	15,17	11,11	8,9	
	14,15	-	-	9,12	9,12	14,20	
	13,14	29,32.2	-	X,X	12,12	22,23	
	-	-	-	7,9	8,12	18,18	

TABLE 1

WebCode	Item	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
		D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
		D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
		Penta D	Penta E	SE33	TH01	TPOX	vWA

Item 4sp

URHBFE	Identifiler® ID-Plus						
4sp	-	17,19	-	14,17	11,12	7,9	
	12,14	-	-	9,11	9,10	16,16	
	14,15	28,30	-	X,Y	10,12	18,23	
	-	-	-	6,8	8,11	17,19	

YSTR Results

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

Item 1

2JJWUE	Yfiler® 1								
4E2C66	Yfiler® 1								
7NH436	PowerPlex® Y 23 1								
7PW9YH	Yfiler® 1	-	-	-	-	-	-	-	-
92D348	Yfiler® 1	-	-	-	-	-	-	-	-
BYKT7B	PowerPlex Fusion 1						NR		
DGDDYF	Global Filer 1						NR		NR
E2FNHA	PowerPlex Fusion 1						NR		
GAJHML	Yfiler® 1								
JUZQLP	Yfiler® 1								

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel		
Item 1										
L2BYT4	Global Filer 1						-/-			
LHHVEN	Yfiler® 1	-	-	-	-	-	-	-	-	-
LL3KY2	PowerPlex Fusion 1							NR		
PKUYCW	PowerPlex Fusion 1								NR	
PTKKHU	PowerPlex® Y Y-23 1									
RAL49G	Yfiler® 1	-	-	-	-	-	-	-	-	-
TD2XMT	PowerPlex Fusion 1								NR	
W869UE	PowerPlex® Y 23 1									
WND6BT	PowerPlex Fusion 1								NR	
ZGZM7M	PowerPlex Fusion 1								NR	

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

Item 1

ZH9WXX	Yfiler®								
	1	NR	NR	NR	NR	NR	NR	NR	NR
		NR	NR	NR	NR	NR	NR		
					NR		NR		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel		
Item 2										
246VXN	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
2BQLKJ	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
2DVA72	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
2JJWUE	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
3E8D9R	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
3UXFPV	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
3YVP44	PowerPlex® Y 2	14	11,14	12	28	24	11	13	13	
		15	12	12						
48ETGV	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
4E2C66	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
4G6DLT	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel		
Item 2										
4XTHDV	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
69RK9C	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
7LDAPU	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
7NH436	PowerPlex® Y 23 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17	21	12	
		12	17	19	23	10	12			
7PW9YH	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17	-	-	
		-	-	-	23	-	12	-	-	
8E7AJW	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
92D348	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17	-	-	
		-	-	-	23	-	12	-	-	
AUC4AW	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
AUWRP7	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
BEGAVA	PowerPlex® Y 23 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17	21	12	
		12	17	19	23	10	12			

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	
Item 2									
BN42NT	PowerPlex® Y 2	14	11,14	12	28	24	11	13	13
		15	12	12					
BYKT7B	Yfiler® 2	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
CMNA3P	Yfiler® 2	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
DGDDYF	Global Filer 2						11		
								2	
E2FNHA	Yfiler® 2	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
E6X6BE	Yfiler® 2	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
EHKC9E	Yfiler® 2	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
EXH84U	Yfiler® 2	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
G2B2ZL	Yfiler® 2	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
GAJHML	Yfiler® 2	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	
Item 2									
GDJN7X	Yfiler® 2	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	-	-
		-	-	-	23	-	12	-	-
HKHPQP	Yfiler® 2	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	-	-
					23		12		
J6JZAH	Yfiler® 2	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	-	-
					23		12		
J9JFCE	Yfiler® 2	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	-	-
					23		12		
JUJZLP	Yfiler® 2	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	-	-
					23		12		
KJGJDM	Yfiler® 2	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	-	-
					23		12		
KUG886	PowerPlex® Y 2	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
KYC4UB	Yfiler® 2	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	-	-
					23		12		
L2BYT4	Global Filer 2						11		
								2	
L4Z6BF	Yfiler® 2	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	-	-
					23		12		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel		
Item 2										
L9EL7D	Yfiler®	2	14	11,14	12	28	24	11	13	13
		15	12		12	19	17	17		
						23		12		
LHHVEN	Yfiler®	2	14	11,14	12	28	24	11	13	13
		15	12		12	19	17	17		
						23		12		
LL3KY2	Yfiler®	2	14	11,14	12	28	24	11	13	13
		15	12		12	19	17	17		
						23		12		
LN92DK	PowerPlex® Y	2	14	11,14	12	28	24	11	13	13
		15	12		12					
M3LZDH	Yfiler®	2	14	11,14	12	28	24	11	13	13
		15	12		12	19	17	17		
						23		12		
M3YR6Y	In-house kit	2	14	11,14	12	28	24	11	13	13
		15	12		12	19	17	17	21	12
		12	17		19	23	10	12		
MEVDUH	Yfiler®	2	14	11,14	12	28	24	11	13	13
		15	12		12	19	17	17		
						23		12		
N27Y7A	Yfiler®	2	14	11,14	12	28	24	11	13	13
		15	12		12	19	17	17		
						23		12		
N72PE7	Yfiler®	2	14	11,14	12	28	24	11	13	13
		15	12		12	19	17	17		
						23		12		
NBTWWE	Yfiler®	2	14	11,14	12	28	24	11	13	13
		15	12		12	19	17	17		
						23		12		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel		
Item 2										
NKY2MA	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
NM4H4E	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
NVGAUC	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
NVXTCN	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
PKUYCW	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
PTKKHU	PowerPlex® Y Y-23 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17	21	12	
		12	17	19	23	10	12			
PXZVTD	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
RAL49G	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
RJA3YM	Yfiler® 2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
RN4YLT	2	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17	21	12	
		12	17	19	23	10	12			

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel		
Item 2										
T4Z9CJ	PowerPlex® Y	2	14	11,14	12	28	24	11	13	13
			15	12	12					
TD2XMT	Yfiler®	2	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
					23		12			
TNKCNB	Yfiler®	2	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
					23		12			
TX7GXV		2	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
					23		12			
UHCB38	Yfiler®	2	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
					23		12			
UNEHGA	Yfiler®	2	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
					23		12			
URDW6Y	Yfiler®	2	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
					23		12			
V2KTNW	Yfiler®	2	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
					23		12			
VW89LG	PowerPlex® Y	2	14	11,14	12	28	24	11	13	13
			15	12	12					
W3AJBM	Yfiler®	2	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
					23		12			

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel		
Item 2										
W869UE	PowerPlex® Y 23	2	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17	21	12
			12	17	19	23	10	12		
WND6BT	Yfiler®	2	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
						23		12		
XJE7HF	PowerPlex® Y	2	14	11,14	12	28	24	11	13	13
			15	12	12					
XKLRM8	Yfiler®	2	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
						23		12		
XN8A8D	Yfiler® Plus	2	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17	21	12
				17	19	23		12	2	
YALGUQ	PowerPlex® Y Y23	2	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17	21	12
			12	17	19	23	10	12		
YK2C86	Yfiler®	2	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
						23		12		
Z4CBZ6	PowerPlex® Y	2	14	11,14	12	28	24	11	13	13
			15	12	12					
ZGZM7M	Yfiler®	2	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
						23		12		
ZH9WXK	Yfiler®	2	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
						23		12		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel		
Item 3										
2JJWUE	Yfiler® 3	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
LHHVEN	Yfiler® 3	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
RJA3YM	Yfiler® 3	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	
Item 3e									
246VXN	Yfiler® 3e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
2BQLKJ	Yfiler® 3e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
2DVA72	Yfiler® 3e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
3E8D9R	Yfiler® 3e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
3UXFPV	Yfiler® 3e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
3YVP44	PowerPlex® Y 3e	14	11,14	12	28	24	11	13	13
		15	12	12					
48ETGV	Yfiler® 3e	14	11,14	12		24	11	13	13
		15	12	12		17	17		
					23		12		
4E2C66	Yfiler® 3e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
69RK9C	Yfiler® 3e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
7LDAPU	Yfiler® 3e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel		
Item 3e										
7NH436	PowerPlex® Y 23 3e									
7PW9YH	Yfiler® 3e	-	-	-	-	-	-	-	-	-
8E7AJW	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13	
92D348	Yfiler® 3e	-	-	-	-	-	-	-	-	-
AUC4AW	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13	
AUWRP7	Yfiler® 3e									
BEGAVA	PowerPlex® Y 23 3e									
BN42NT	PowerPlex® Y 3e	14 15	11,14 12	12 12	28	24	11	13	13	
BYKT7B	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13	
CMNA3P	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13	

TABLE 2

WebCode	Item	DYS19 DYS437 DYS549	DYS385 DYS438 DYS570	DYS389-I DYS439 DYS576	DYS389-II DYS448 DYS635	DYS390 DYS456 DYS643	DYS391 DYS458 Y GATA H4	DYS392 DYS481 YIndel	DYS393 DYS533
Item 3e									
DGDDYF	Global Filer 3e								
							[11]		
								[2]	
E2FNHA	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13
E6X6BE	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13
EHKC9E	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13
EXH84U	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13
G2B2ZL	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13
GAJHML	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13
GDJN7X	Yfiler® 3e	14 15 -	11,14 12 -	12 12 -	28 19 23	24 17 -	11 17 12	13 -	13 -
HKHPQP	Yfiler® 3e								
J6JZAH	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel		
Item 3e										
J9JFCE	Yfiler® 3e	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
JUZQLP	Yfiler® 3e									
KJGJDM	Yfiler® 3e	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
KUG886	PowerPlex® Y 3e	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17	21	12	
		12	17	19	23	10	12			
KYC4UB	Yfiler® 3e	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
L2BYT4	Global Filer 3e						11			
L4Z6BF	Yfiler® 3e	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
LL3KY2	Yfiler® 3e	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
LN92DK	PowerPlex® Y 3e	14	11,14	12	28	24	11	13	13	
		15	12	12						
M3LZDH	Yfiler® 3e	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel		
Item 3e										
M3YR6Y	In-house kit 3e									
MEVDUH	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13	
N72PE7	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13	
NBTWWE	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13	
NM4H4E	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13	
NVGAUC	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13	
NVXTCN	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13	
PKUYCW	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13	
PTKKHU	PowerPlex® YY-23 3e									
PXZVTD	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13	

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel		
Item 3e										
RAL49G	Yfiler® 3e	-	-	-	-	-	-	-	-	
RN4YLT	PowerPlex® Y 3e									
T4Z9CJ	PowerPlex® Y 3e	14 15	11,14 12	12 12	28	24	11	13	13	
TD2XMT	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13	
TNKCNB	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13	
TX7GXV	Yfiler® 3e	-	-	-	-	-	-	-	-	
UHCB38	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13	
UNEHGA	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13	
URDW6Y	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13	
V2KTNW	Yfiler® 3e	14 15	11,14 12	12 12	28 19 23	24 17	11 17 12	13	13	

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel		
Item 3e										
VW89LG	PowerPlex® Y 3e	14	11,14	12	28	24	11	13	13	
		15	12	12						
W869UE	PowerPlex® Y 23 3e									
WND6BT	Yfiler® 3e	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
XJE7HF	PowerPlex® Y 3e									
XKLRM8	Yfiler® 3e	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
XN8A8D	Yfiler® Plus 3e									
YALGUQ	PowerPlex® Y Y23 3e	14	11,14	12	28	24	11	13	13	
		15		12	19		17	21	12	
		12	17	19			12			
YK2C86	Yfiler® 3e	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
Z4CBZ6	PowerPlex® Y 3e	14	11,14	12	28	24	11	13	13	
		15	12	12						
ZGZM7M	Yfiler® 3e	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	

Item 3e

ZH9WXK	Yfiler®								
	3e	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel		
Item 3sp										
246VXN	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			

2BQLKJ	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			

2DVA72	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			

3E8D9R	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			

3UXFPV	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			

3YVP44	PowerPlex® Y 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12						

48ETGV	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			

4E2C66	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			

4G6DLT	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			

4XTHDV	3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel		
Item 3sp										
69RK9C	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
7LDAPU	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
7NH436	PowerPlex® Y 23 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17	21	12	
		12	17	19	23	10	12			
7PW9YH	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17	-	-	
		-	-	-	23	-	12	-	-	
8E7AJW	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
92D348	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17	-	-	
		-	-	-	23	-	12	-	-	
AUC4AW	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
AUWRP7	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
BEGAVA	PowerPlex® Y 23 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17	21	12	
		12	17	19	23	10	12			
BN42NT	PowerPlex® Y 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12						

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	
Item 3sp									
BYKT7B	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
CMNA3P	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
DGDDYF	Global Filer 3sp						11		
								2	
E2FNHA	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
E6X6BE	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
EHKC9E	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
EXH84U	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
G2B2ZL	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
GAJHML	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
GDJN7X	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	-	-
		-	-	-	23	-	12	-	-

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel		
Item 3sp										
HKHPQP	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
J6JZAH	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
J9JFCE	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
JUZQLP	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
KJGJDM	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
KUG886	PowerPlex® Y 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17	21	12	
		12	17	19	23	10	12			
KYC4UB	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
L2BYT4	Global Filer 3sp						11			
								2		
L4Z6BF	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
L9EL7D	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel		
Item 3sp										
LL3KY2	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
LN92DK	PowerPlex® Y 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12						
M3LZDH	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
M3YR6Y	In-house kit 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17	21	12	
		12	17	19	23	10	12			
MEVDUH	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
N72PE7	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
NBTWWE	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
NKY2MA	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
NM4H4E	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
NVGAUC	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel	
Item 3sp									
NVXTCN	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
PKUYCW	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
PTKKHU	PowerPlex® Y Y-23 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
PXZVTD	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
RAL49G	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
RN4YLT	PowerPlex® Y 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
T4Z9CJ	PowerPlex® Y 3sp	14	11,14	12	28	24	11	13	13
		15	12	12					
TD2XMT	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
TNKCNB	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
TX7GXV	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	
Item 3sp									
UHCB38	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
UNEHGA	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
URDW6Y	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
V2KTNW	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
VW89LG	PowerPlex® Y 3sp	14	11,14	12	28	24	11	13	13
		15	12	12					
W3AJBM	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
W869UE	PowerPlex® Y 23 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
WND6BT	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
XJE7HF	PowerPlex® Y 3sp	14	11,14	12	28	24	11	13	13
		15	12	12					
XKLRM8	Yfiler® 3sp	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel		
Item 3sp										
XN8A8D	Yfiler® Plus 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17	21	12	
			17	19	23		12	2		
YALGUQ	PowerPlex® Y Y23 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17	21	12	
		12	17	19	23	10	12			
YK2C86	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
Z4CBZ6	PowerPlex® Y 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12						
ZGZM7M	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
ZH9WXX	Yfiler® 3sp	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel		
Item 4										
2BQLKJ	Yfiler® 4	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
2DVA72	Yfiler® 4	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
2JJWUE	Yfiler® 4	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
3E8D9R	Yfiler® 4	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
3UXFPV	Yfiler® 4	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
3YVP44	PowerPlex® Y 4	14	11,14	12	28	24	11	13	13	
		15	12	12						
48ETGV	Yfiler® 4	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
4E2C66	Yfiler® 4	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
4G6DLT	Yfiler® 4	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
4XTHDV	Yfiler® 4	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel		
Item 4										
69RK9C	Yfiler®	4	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
						23		12		
7LDAPU	Yfiler®	4	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
						23		12		
7NH436	PowerPlex® Y 23	4	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17	21	12
			12	17	19	23	10	12		
7PW9YH	Yfiler®	4	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17	-	-
			-	-	-	23	-	12	-	-
8E7AJW	Yfiler®	4	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
						23		12		
92D348	Yfiler®	4	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17	-	-
			-	-	-	23	-	12	-	-
AUC4AW	Yfiler®	4	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
						23		12		
AUWRP7	Yfiler®	4	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
						23		12		
BEGAVA	PowerPlex® Y 23	4	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17	21	12
			12	17	19	23	10	12		
BN42NT	PowerPlex® Y	4	14	11,14	12	28	24	11	13	13
			15	12	12					

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	
Item 4									
BYKT7B	Yfiler® 4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
CMNA3P	Yfiler® 4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
DGDDYF	Global Filer 4						11		
								2	
E2FNHA	Yfiler® 4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
E6X6BE	Yfiler® 4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
EHKC9E	Yfiler® 4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
EXH84U	Yfiler® 4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
G2B2ZL	Yfiler® 4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
GAJHML	Yfiler® 4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
GDJN7X	Yfiler® 4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	-	-
		-	-	-	23	-	12	-	-

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel	
Item 4									
HKHPQP	Yfiler® 4	17	12	24	28	17	14	11, 14	13
		11	12	23	13	12	15	12	19
J6JZAH	Yfiler® 4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
J9JFCE	Yfiler® 4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
JUZQLP	Yfiler® 4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
KJGJDM	Yfiler® 4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
KUG886	4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12
		12	17	19	23	10	12		
KYC4UB	Yfiler® 4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
L2BYT4	Global Filer 4						11		
								2	
L4Z6BF	Yfiler® 4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		
LHHVEN	Yfiler® 4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17		
					23		12		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YInDel		
Item 4										
LL3KY2	Yfiler®	4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17			
					23	12				
LN92DK	PowerPlex® Y	4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17			
M3LZDH	Yfiler®	4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17			
					23	12				
M3YR6Y	In-house kit	4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17	21	12	
		12	17	19	23	10	12			
MEVDUH	Yfiler®	4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17			
					23	12				
N27Y7A	Yfiler®	4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17			
					23	12				
N72PE7	Yfiler®	4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17			
					23	12				
NBTWWE	Yfiler®	4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17			
					23	12				
NKY2MA	Yfiler®	4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17			
					23	12				
NM4H4E	Yfiler®	4	14	11,14	12	28	24	11	13	13
		15	12	12	19	17	17			
					23	12				

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel		
Item 4										
NVGAUC	Yfiler®	4	14	11,14	12	28	24	11	13	13
		15	12		12	19	17	17		
						23		12		
NVXTCN	Yfiler®	4	14	11,14	12	28	24	11	13	13
		15	12		12	19	17	17		
						23		12		
PKUYCW	Yfiler®	4	14	11,14	12	28	24	11	13	13
		15	12		12	19	17	17		
						23		12		
PTKKHU	PowerPlex® Y Y-23	4	14	11,14	12	28	24	11	13	13
		15	12		12	19	17	17	21	12
		12	17		19	23	10	12		
PXZVTD	Yfiler®	4	14	11,14	12	28	24	11	13	13
		15	12		12	19	17	17		
						23		12		
RAL49G	Yfiler®	4	14	11,14	12	28	24	11	13	13
		15	12		12	19	17	17		
						23		12		
RJA3YM	Yfiler®	4	14	11,14	12	28	24	11	13	13
		15	12		12	19	17	17		
						23		12		
RN4YLT	Yfiler®	4	14	11,14	12	28	24	11	13	13
		15	12		12	19	17	17	21	12
		12	17		19	23	10	12		
T4Z9CJ	PowerPlex® Y	4	14	11,14	12	28	24	11	13	13
		15	12		12					
TD2XMT	Yfiler®	4	14	11,14	12	28	24	11	13	13
		15	12		12	19	17	17		
						23		12		

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel		
Item 4										
TNKCNB										
	4	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
TX7GXV	Yfiler®									
	4	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
UHCB38	Yfiler®									
	4	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
UNEHGA	Yfiler®									
	4	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
URDW6Y	Yfiler®									
	4	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
V2KTNW	Yfiler®									
	4	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
VW89LG	PowerPlex® Y									
	4	14	11,14	12	28	24	11	13	13	
		15	12	12						
W3AJBM	Yfiler®									
	4	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			
W869UE	PowerPlex® Y 23									
	4	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17	21	12	
		12	17	19	23	10	12			
WND6BT	Yfiler®									
	4	14	11,14	12	28	24	11	13	13	
		15	12	12	19	17	17			
					23		12			

TABLE 2

WebCode	Item	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
		DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533	
		DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	YIndel		
Item 4										
XJE7HF	PowerPlex® Y	4	14	11,14	12	28	24	11	13	13
			15	12	12					
XKLRM8	Yfiler®	4	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
					23		12			
XN8A8D	Yfiler® Plus	4	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17	21	12
				17	19	23	12	2		
YALGUQ	PowerPlex® Y Y23	4	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17	21	12
				17	19	23	10	12		
YK2C86	Yfiler®	4	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
					23		12			
Z4CBZ6	PowerPlex® Y	4	14	11,14	12	28	24	11	13	13
			15	12	12					
ZGZM7M	Yfiler®	4	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
					23		12			
ZH9WXX	Yfiler®	4	14	11,14	12	28	24	11	13	13
			15	12	12	19	17	17		
					23		12			

Additional DNA Results

TABLE 3

Locus	WebCode	Item 1	Item 2	Item 3e	Item 3sp	Item 4
D6S1043	636PEZ	11,15	11,17	11,15,17	11,17	11,15,17
	CNX8HR	11,15	11,17	11,15,17	11,17	11,15,17
	FZHMZN	11,15	11,17	11,15,[17]	11,17	11,15,17
DYF387S1	XN8A8D	-	36,36	-	36,36	36,36
DYS391	BYKT7B		11	NR	11	11
	E2FNHA		11	11	11	11
	LL3KY2		11	11	11	11
	PKUYCW		11	11	11	11
	TD2XMT		11	[11]	11	11
	WND6BT		11	[11]	11	11
	XJE7HF		11			
	YHB6PT		11	[11]	11	11
	ZGZM7M		11	NR	11	11
	ZH9W XK	NR	11	11	11	11
DYS449	M3YR6Y		29		29	29
	XN8A8D	-	29	-	29	29
DYS460	M3YR6Y		11		11	11
	XN8A8D	-	11	-	11	11
DYS518	XN8A8D	-	39	-	39	39
DYS627	XN8A8D	-	21	-	21	21
YINDEL	XJE7HF		2			

DNA Interpretations

Based on results obtained from DNA analysis, could the Victim (Item 1) and/or the Suspect (Item 2) be a contributor to the questioned stains (Items 3 & 4)?

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
246VXN	Yes	Yes	Yes	Yes	7ZQPNJ	Yes	Yes	Yes	Yes
2BQLKJ	Yes	Yes	Yes	Yes	8E7AJW	Yes	Yes	Yes	Yes
2DVA72	Yes	Yes	Yes	Yes	8QMRFA	Yes	Yes	Yes	Yes
2EN6MH	Yes	Yes	Yes	Yes	92D348	Yes	Yes	Yes	Yes
2JJWUE	Yes	Yes	Yes	Yes	9MHHN6	Yes	Yes	Yes	Yes
3E8D9R	Yes	Yes	Yes	Yes	9P4KDP	Yes	Yes	Yes	Yes
3HKBGE	Yes	Yes	Yes	Yes	9W7GFA	No	Yes	Yes	Yes
3UXFPV	Yes	Yes	Yes	Yes	AJDEC9	No	Yes	Yes	Yes
3YVP44	Yes	Yes	Yes	Yes	AUC4AW	Yes	Yes	Yes	Yes
48ETGV	Yes	Yes	Yes	Yes	AUWRP7	Yes	Yes	Yes	Yes
4E2C66	Yes	Yes	Yes	Yes	B3K2BL	Yes	Yes	Yes	Yes
4G6DLT	Yes	Yes	Yes	Yes	B4FM3Q	Yes	Yes	Yes	Yes
4NNE4R	Yes	Yes	Yes	Yes	BA4AWW	Yes	Yes	Yes	Yes
4XTHDV	Yes	Yes	Yes	Yes	BC798P	Yes	Yes	Yes	Yes
636PEZ	Yes	Yes	Yes	Yes	BEGAVA	Yes	Yes	Yes	Yes
69RK9C	Yes	Yes	Yes	Yes	BFBQEX	Yes	Yes	Yes	Yes
6K4ZXW	Yes	Yes	Yes	Yes	BN42NT	Yes	Yes	Yes	Yes
7CMTQR	Yes	Yes	Yes	Yes	BYKT7B	Yes	Yes	Yes	Yes
7LDAPU	Yes	Yes	Yes	Yes	CEB9P2	Yes	Yes	Yes	Yes
7NH436	Yes	Yes	Yes	Yes	CEVUF7	Yes	Yes	No	Yes
7PW9YH	Yes	Yes	Yes	Yes	CMNA3P	Yes	Yes	Yes	Yes
7VGJUX	Yes	Yes	Yes	Yes	CNX8HR	Yes	Yes	Yes	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
D8PMCM	Yes	Yes	Yes	Yes	HKHPQP	Yes	Yes	Yes	Yes
DCJJYT	Yes	Yes	Yes	Yes	J6JZAH	Yes	Yes	Yes	Yes
DFKHHY	Yes	Yes	Yes	Yes	J9JFCE	Yes	Yes	Yes	Yes
DGDDYF	Yes	Yes	Yes	Yes	JNT6QZ	Yes	Yes	Yes	Yes
DHLPDW	Yes	Yes	Yes	Yes	JRWTCB	Yes	Yes	Yes	Yes
E2FNHA	Yes	Yes	Yes	Yes	JUMZUT	Yes	Yes	Yes	Yes
E6X6BE	Yes	Yes	Yes	Yes	JUZQLP	Yes	Yes	Yes	Yes
ECDNTT	Yes	Yes	Yes	Yes	KJGJDM	Yes	Yes	Yes	Yes
EHKC9E	Yes	Yes	Yes	Yes	KUG886	Yes	Yes	Yes	Yes
EMGUTL	Yes	Yes	Yes	Yes	KYC4UB	Yes	Yes	Yes	Yes
EXH84U	Yes	Yes	Yes	Yes	L2BYT4	Yes	Yes	Yes	Yes
F3P6XK	Yes	Yes	Yes	Yes	L4Z6BF	Yes	Yes	Yes	Yes
F6ECGV	Yes	Yes	Yes	Yes	L9EL7D	Yes	Yes	Yes	Yes
F6VTBP	Yes	Yes	Yes	Yes	LHHVEN	Yes	Yes	Yes	Yes
FBYJUJ	Yes	Yes	Yes	Yes	LL3KY2	Yes	Yes	Yes	Yes
FGRLZF	Yes	Yes	Yes	Yes	LN92DK	Yes	Yes	Yes	Yes
FNUN9L	No Interpretations Reported, DNA Analyzed for Database purposes only.				LXV4D8	Yes	Yes	Yes	Yes
FZHMZN	Yes	Yes	Yes	Yes	LYQP4C	Yes	Yes	Yes	Yes
G2B2ZL	Yes	Yes	Yes	Yes	LZYYWA	Yes	Yes	Yes	Yes
GAJHML	Yes	Yes	Yes	Yes	M3LZDH				
GB2L6K	Yes	Yes	Yes	Yes	M3YR6Y	Yes	Yes	Yes	Yes
GDJN7X	Yes	Yes	Yes	Yes	MEVDUH	Yes	Yes	Yes	Yes
H4TPQC	Yes	Yes	Yes	Yes	MFR4LH	Yes	Yes	Yes	Yes
HE8J4Q	Yes	Yes	Yes	Yes	N27Y7A	Yes	Yes	Yes	Yes

TABLE 4

WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>		WebCode	<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
N3GX6P	Yes	Yes	Yes	Yes	TD2XMT	Yes	Yes	Yes	Yes
N72PE7	Yes	Yes	Yes	Yes	TNKCNCB	Yes	Yes	Yes	Yes
NAERYG	Yes	Yes	Yes	Yes	TX7GXV	Yes	Yes	Yes	Yes
NBTWWE	Yes	Yes	Yes	Yes	UHCB38	Yes	Yes	Yes	Yes
NGW4CH	Yes	Yes	Yes	Yes	UNEHGA	Yes	Yes	Yes	Yes
NKY2MA	Yes	Yes	Yes	Yes	URDW6Y	Yes	Yes	Yes	Yes
NM4H4E	Yes	Yes	Yes	Yes	URHBFE	Yes	Yes	Yes	Yes
NVGAUC	Yes	Yes	Yes	Yes	V2KTNW	Yes	Yes	Yes	Yes
NVXTCN	Yes	Yes	Yes	Yes	VB48PD	Yes	Yes	Yes	Yes
PKUYCW	Yes	Yes	Yes	Yes	VGBV6Z	Yes	Yes	Yes	Yes
PTKKHU	Yes	Yes	Yes	Yes	VW89LG	No Interpretations Reported, DNA Analyzed for Database purposes only.			
PXZVTD	Yes	Yes	Yes	Yes	VXZ2EE	Yes	Yes	Yes	Yes
Q2YQUR	Yes, Blood Stain	Yes	Yes, Semen stain	Yes	W3AJBM	Yes	Yes	Yes	Yes
QBLMVT	Yes	Yes	Yes	Yes	W869UE	Yes	Yes	Yes	Yes
QZQA49	Yes	Yes	Yes	Yes	WND6BT	Yes	Yes	Yes	Yes
R2ULYF	Yes	Yes	Yes	Yes	WW2XL4	Yes	Yes	Yes	Yes
R38ZLN	Yes	Yes	Yes	Yes	XJE7HF	No Interpretations Reported, DNA Analyzed for Database purposes only.			
RAL49G	Yes	Yes	Yes	Yes	XKLRM8	Yes	Yes	Yes	Yes
RCC7HC	Yes	Yes	Yes	Yes	XN8A8D	Yes	Yes	Yes	Yes
RJA3YM	Yes	Yes	Yes	Yes	YALGUQ	Yes	Yes	Yes	Yes
RN4YLT	Yes	Yes	Yes	Yes	YHB6PT	Yes	Yes	Yes	Yes
T4Z7LF	Yes	Yes	Yes	Yes	YK2C86	Yes	Yes	Yes	Yes
T4Z9CJ	No Interpretations Reported, DNA Analyzed for Database purposes only.				YLEW3Z	Yes	Yes	Yes	Yes
					YZWNR	Yes	Yes	Yes	Yes

TABLE 4

WebCode	Victim (Item 1)		Suspect (Item 2)		WebCode	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4		Item 3	Item 4	Item 3	Item 4
Z4CBZ6	Yes	Yes	Yes	Yes					
ZEWKMD	Yes	Yes	Yes	Yes					
ZGZM7M	Yes	Yes	Yes	Yes					
ZH9WXK	Yes	Yes	Yes	Yes					
ZNJTZA	Yes	Yes	Yes	Yes					
ZPUNQ8	Yes	Yes	Yes	Yes					

Response Summary**Participants reporting DNA results: 145**

Based on results obtained from DNA analysis, could the Victim (Item 1) and/or the Suspect (Item 2) be a contributor to the questioned stains (Items 3 & 4)?

Responses	Victim (Item 1)		Suspect (Item 2)	
	Item 3	Item 4	Item 3	Item 4
Yes	138	140	139	140
No	2	0	1	0
Inc	0	0	0	0

Participants not reporting Interpretation results: 5

Additional Comments

TABLE 5

WebCode	Additional Comments
2JJWUE	The DNA detected in Item 3, EC fraction, contains a mixture of DNA from at least 2 individuals. The victim (item 1) cannot be excluded as the major donor of the DNA detected in this sample. The suspect (item 2) cannot be excluded as a lower level contributor of the DNA detected. The DNA detected in the SP fraction of item 3 contains a mixture of DNA from at least 2 people, with one major donor. The suspect, (item 2) cannot be excluded as this major donor. The victim (item 1) cannot be excluded as being the source of the trace alleles present in this sample. The DNA detected in item 4 appears to be a mixture of at least 2 people. Both the victim (item 1) and the suspect (Item 2) cannot be excluded as contributors of the DNA detected in this sample.
4E2C66	For the epithelial fraction of Item 3, the reported minor 13 allele at CSF1PO is possible n+4bp stutter, which was called as a possible allele due to the sample being overamplified. This possible allele is listed in the results due to laboratory reporting policy.
4XTHDV	Criminalist [Name] performed Y-screening analysis on Items 3 and 4 with positive findings on both. Minifiler analysis was performed on Item 3 with results consistent with the ID Plus results for the common loci.
69RK9C	Items 1, 2 and 4 were extracted by using organic extraction method. Item 3 was extracted by using chelex extraction method
7PW9YH	1. Item 1 to 4 were extracted using Chelex extraction method. 2. Item 1 to 4 were quantified using the Quantifiler Human DNA Quantification kit, carried out by 7500 Real Time PCR. 3. Amplification was done using the AmpFISTR Identifiler Plus PCR kit on Item 1 to 4. 4. Y-STR was carried out using the Y-Filer PCR kit on Item 1 to 4. 5. Electrophoresis was carried out using ABI 3500xl and 3130xl Genetic Analyzer. 6. Reagent Blank, Positive Control and Negative Control were carried out along with the analysis.
92D348	1. Item 1 and Item 2 were amplified using AmpFISTR Identifiler Plus Kit. 2. Item 3 and Item 4 were extracted using chelex extraction method. 3. DNA quantification was carried out using Quantifiler Human DNA Quantitation Kit on 7500 Real-Time PCR. 4. Item 3 and Item 4 were amplified using AmpFISTR Identifiler Plus Kit. 5. Amplification of Y-STR was carried out using AmpFISTR Y-Filer Amplification Kit. 6. Capillary electrophoresis was carried out using the Applied Biosystems 3130xl Genetic Analyzer with GeneMapper ID Software. 7. Reagent blank, positive control and negative control were carried out throughout the analysis.
AUC4AW	One allele was detected in Item 3 (e fraction) which could not be attributed to either the victim or suspect (13 @ CSF1PO). This is likely the result of n+4 stutter (<1% of the parent allele). This allele was included in the table of results as per laboratory policy.
AUWRP7	a) Chelex extraction method was used to extract DNA from Items 1, 2, 3 and 4. b) DNA quantitation was carried out using the Quantifiler Human DNA Quantification Kit with Applied Biosystems Real Time Polymerase Chain Reaction (PCR) 7500 System. c) Amplification of STR (Short Tandem Repeat) Genetic Loci was carried out using the AmpFISTR Identifiler Plus PCR Amplification Kit. d) Amplification of Y-STR (Short Tandem Repeat) Genetic Loci was carried out using the AmpFISTR Y-Filer PCR Amplification Kit. e) Capillary electrophoresis was carried out using the Applied Biosystems 3130xl Genetic Analyzers with GeneMapper™ ID Software. f) Reagent Blank, positive control and negative control were carried out through out the testing.
B4FM3Q	Item 3 (Questioned blood and semen mixture from victims shorts) A trace amount of semen was found on item 3 and it was bloodstained. When tested item 3 was AP positive, KM positive & Hematrace positive. RSID semen was also carried out resulting in a positive reaction. Item 4 (Questioned bloodstain from suspect shirt) When tested item 4 was KM positive & Hematrace positive.
BEGAVA	1. The victim (Item 1) is not excluded as the source of the cells in the epithelial fraction of the blood and semen mixture stain in the victim's shorts (Item 3). 2.The suspect (Item 2) is not excluded as the source of the cells in the spermatic fraction of the blood and semen mixture stain in the victim's shorts (Item 3). 3. It is noted that the genetic profile recovered from the blood mixture in the suspect's shirt (Item 4), has more than

TABLE 5

WebCode	Additional Comments
	two alleles for several of the STR systems analyzed, indicating the presence of cells from more than one individual. The genetic profiles of the victim and the suspect are included in the mixture. Therefore, the victim (Item 1) and the suspect (Item 2) are not excluded as the source of the blood mixture in the suspect's shirt (Item 4).
BYKT7B	NR=No Results. Data for locus DYS391 on Additional DNA page produced using the PowerPlex Fusion kit.
CEB9P2	The MiniFiler and SGM Plus results concur with the Identifiler results at the sites in common between these systems.
CEVUF7	- Victim's shorts (combination of blood and semen) gave only female profile, matching the victim's blood. - Victim's blood and suspect's blood read into the mixture DNA results from the suspect's shirt (only blood).
CMNA3P	Y-STR analysis was not performed on item 1 because no male DNA was detected using Quantifiler Duo.
DFKHHY	Item 3 and Item 4 also underwent Minifiler analysis. The results obtained from this analysis were consistent with those obtained from the Identifiler analysis at the sites in common to the two kits. Item 3 and Item 4 also underwent SGM+ analysis using low copy number 34 PCR cycles. The results obtained from this analysis were consistent with those obtained from the Identifiler analysis at the sites in common to the two kits. One additional unreplicated allele, D18: 13, was obtained from Item 4, which may have been a drop-in event. The results obtained from the positive and negative controls were all as expected.
DGDDYF	DYS391 and Y Indel results reported under YSTR kit table for each item. GlobalFiler listed as Other kit in this section. NR = No Result for DYS391 and Y Indel for Item 1 (female reference).
E2FNHA	NR=No Results. Data for locus DYS391 on Additional DNA page produced using the PowerPlex Fusion kit.
F6ECGV	Items 3 and 4 were also analysed with SGMplus and the results obtained were consistent with the Identifiler profiling results at the sites in common to both kits. Additional minor alleles were observed in the epithelial fraction of item 3 which are consistent with the sperm fraction of this sample. They are likely the result of an incomplete separation of the epithelial and sperm fractions.
FNUN9L	This examiner is only competent in the testing of known standards.
G2B2ZL	YSTR analysis not performed on Item 1 due to no male quantitation value obtained.
GAJHML	Y-STR analysis was not performed on item 1.
GB2L6K	Alleles reported for item 3 (epithelial fraction) indicated in brackets are alleles that are called above the analytical reporting threshold, yet are not above the stochastic threshold as per our laboratory's interpretation guidelines.
GDJN7X	Items 1, 2 and 4 were extracted using organic extraction method. Item 3 was extracted using chelex extraction method.
HKHPQP	The 3_NS results are a composite of the Identifiler Plus and Minifiler[sic] results.
JUMZUT	Items 3 and 4 were also analysed using LCN SGMplus and the results obtained were consistent with the Identifiler profiling results at the sites in common to both kits.
JUZQLP	Criminalist [Name] performed Y-screening on this proficiency test and obtained male DNA for items 2, 3 and 4.
L2BYT4	DYS391 and Y Indel results for Global Filer were reported under the YSTR amplification section for each item. For the YSTR amplification section the abbreviation -,- = no result.
L4Z6BF	Y-STR analysis was not performed on sample 1 because no male DNA was detected using Quantifiler Duo.
LL3KY2	NR=NO RESULTS. Data for locus DYS391 on Additional DNA page produced using PowerPlex Fusion kit.
LXV4D8	The profile obtained from the suspects shirt (Item 4) was conditioned using the profile attributed to the

TABLE 5

WebCode	Additional Comments
	suspect. The remaining profile subsequent to conditioning was reported.
M3LZDH	As a technician, I do not make DNA interpretations for casework samples, so no interpretations were made for this test.
MFR4LH	The Minifiler results for Item 1 and Item 2 are concordant with the Identifiler Plus results for those items.
NM4H4E	No male DNA detected for Item 1 using Plexor HY.
PKUYCW	NR = No Results. Data for locus DYS391 on Additional DNA page produced using the PowerPlex Fusion kit.
PTKKHU	1. The suspect is not excluded as the contributor of the profile in the sperm fraction of sample 3 (victim's shorts). 2. The victim is not excluded as the contributor of the profile in the epithelial cell fraction of sample 3 (victim's shorts). 3. Victim and suspect are not excluded as the contributor of the mixture found on sample 4 (suspect's[sic] shirt).
R2ULYF	* = DNA type detected below stochastic threshold. [] = Likely minor contributor DNA type
T4Z7LF	DNA types detected below the stochastic threshold from the non-sperm fraction of Item 3 were asterisked.
T4Z9CJ	Results were consistent across kits where appropriate. Dots selected by mistake, unable to unselect in 'No interpretation' line for Victim and Suspect.
TD2XMT	NR = No Results. Data for locus DYS391 on Additional DNA page produced using the PowerPlex Fusion kit.
TX7GXV	1) Extraction was carried out using Chelex extraction method. 2) Quantification was carried out using Quantifiler Human DNA on the 7500 SDS Real Time PCR 3) STR Amplification was carried out using the Identifiler Plus amplification kit. 4) Y-STR analysis was carried out on Item 2, Item 3(sp) and Item 4 using the Y-filer amplification kit. 4) Electrophoresis was carried out using the 3130xl Genetic Analyser[sic].
WND6BT	NR = No Results. Data for locus DYS391 on Additional DNA page produced using the PowerPlex Fusion kit.
XJE7HF	For items 1 and 2 concordant results were obtained for each sample using the Identifiler and Globalfiler DNA tests. For items 3 and 4 concordant results were obtained for each sample using the Identifiler and Minifiler DNA tests.
XN8A8D	Participant's note concerning boxes (either with - or empty): - box filled with a single dash (-) indicates that the related marker gave no allele for that item, - empty box indicates that no experiment was performed on that marker.
YLEW3Z	Criminalist [Name] performed y-screen analysis on the proficiency test and detected male DNA on Items 3 and 4.
ZGZM7M	Data for locus DYS391 on Additional DNA page produced using the PowerPlex Fusion kit. Abbreviations: NR = No results
ZH9W XK	NR = No Results. Data for locus DYS391 on Additional DNA page produced using the PowerPlex Fusion kit.
ZPUNQ8	Criminalist [Name] performed y-screening on this proficiency test and obtained male DNA for Items 3 and 4.

Appendix: Data Sheet

Collaborative Testing Services - Forensic Testing Program

Test No. 15-581: DNA-Mixture

DATA MUST BE RECEIVED BY March 9, 2015 TO BE INCLUDED IN THE REPORT

Participant Code:

WebCode:

Accreditation Release Statement

CTS submits external proficiency test data directly to ASCLD/LAB and ANSI-ASQ NAB/FQS. Please select one of the following statements to ensure your data is handled appropriately.

- This participant's data is intended for submission to ASCLD/LAB and/or ANSI-ASQ NAB/FQS. (Accreditation Release section on the last page must be completed and submitted.)
- This participant's data is NOT intended for submission to ASCLD/LAB or ANSI-ASQ NAB/FQS.

Scenario:

Police are investigating a sexual assault case involving a female victim who was attacked while heading home from a convenience store. A male suspect was apprehended after witnesses described a man loitering around the convenience store around the time of the incident. Screening has been performed on both samples with the following results: Item 3 (victim's shorts) is positive for a mixture of blood and semen and Item 4 (suspect's shirt) is positive for blood only. The screening lab is submitting these samples (Items 3 and 4) along with the known blood samples of the victim and the suspect.

Items Submitted (Sample Pack S1):

- Item 1: Known blood from the female victim.
- Item 2: Known blood from the male suspect.
- Item 3: Questioned blood and semen mixture from the victim's shorts.
(beige chevron patterned material)
- Item 4: Questioned blood stain from the suspect's shirt. (plaid material)

****Please note the following Significant Changes to the Data Sheet****

Due to the growing use of GlobalFiler™, Powerplex® Fusion and Powerplex® Y23, the Data Sheet has been updated to include the loci represented by these new amplification kits. In addition, the data sheet was redesigned to gather all the information for a single item on one page, including capturing the amplification kit used for the analysis for each Item. As always, the paper version of our data sheet displays loci in alpha-numeric order. To re-order the loci to match your amplification kit, please utilize our online data entry at www.CTS-Portal.com.

Online Data Entry

Visit www.cts-portal.com to enter and/or upload your proficiency test results online. If you have any questions please do not hesitate to contact CTS.

Please return all pages of this data sheet.

Page 1 of 8

Part I: DNA ANALYSIS

DNA Analysis 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 policy for reporting homozygotes.
- * If your laboratory policy is to indicate minor or weaker alleles, please enclose them within brackets [].
- * Stains with more than one contributor: If a differential extraction is performed, split the box with a horizontal line and report the results of the different fractions above and below the line - indicate which is the sperm fraction (sp) and which is the epithelial fraction (e) (Example A); otherwise, list the alleles in numerical order (Example B).

Example	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820	
A	e	10,11	15,16	8	12,13	7	8
	sp	12,13	15,17	8,17	11	14,15	11,13
B	[10],[11],12,13	15,[16],17	8,17	[11],12,13	7,14,15	8,11,13	

****Please note Data Sheet Changes****

As a reminder, the data sheet has been updated to include loci from the following amplification kits: GlobalFiler™, Powerplex® Fusion and Powerplex® Y23. If a locus is not listed on one of the following four pages of this data sheet, use the "Additional DNA Results" table below to report those results.

Additional DNA Results

Please use the section below to report results only for loci not available on the following pages.

	Item 1	Item 2	Item 3	Item 4
_____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
_____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
_____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
_____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please return all pages of this data sheet.

Part I (continued): DNA Results for Known Item 1

STR Amplification Kit(s) Used For Item 1: Please check all the brands that apply for this item and record any kit specific information in the blank provided (i.e. 16, Plus, Direct, 16 HS, etc.).

<input type="checkbox"/> COfiler®/Profiler Plus® _____	<input type="checkbox"/> PowerPlex® _____
<input type="checkbox"/> Identifiler® _____	<input type="checkbox"/> Other _____

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	Penta D	Penta E	SE33	TH01	TPOX	vWA
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

YSTR Amplification Kit(s) Used For Item 1: Please check all the brands that apply for this item and record any kit specific information in the blank provided (i.e. Plus, 23, etc.).

<input type="checkbox"/> Yfiler® _____	<input type="checkbox"/> PowerPlex® Y _____
<input type="checkbox"/> Other _____	

ITEM	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	Y Indel
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Part I (continued): DNA Results for Known Item 2

STR Amplification Kit(s) Used For Item 2: Please check all the brands that apply for this item and record any kit specific information in the blank provided (i.e. 16, Plus, Direct, 16 HS, etc.).

<input type="checkbox"/> COfiler®/Profiler Plus® _____	<input type="checkbox"/> PowerPlex® _____
<input type="checkbox"/> Identifiler® _____	<input type="checkbox"/> Other _____

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	Penta D	Penta E	SE33	TH01	TPOX	vWA
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

<input type="checkbox"/> Yfiler® _____	<input type="checkbox"/> PowerPlex® Y _____
<input type="checkbox"/> Other _____	

ITEM	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	Y Indel
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Part I (continued): DNA Results for Questioned Item 3

STR Amplification Kit(s) Used For Item

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

COfiler®/Profiler Plus® _____

PowerPlex® _____

Identifiler® _____

Other _____

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	Penta D	Penta E	SE33	TH01	TPOX	vWA
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

YSTR Amplification Kit(s) Used For Item 3:

Please check all the brands that apply for this item and record any kit specific information in the blank provided (i.e. Plus, 23, etc.).

Yfiler® _____

PowerPlex® Y _____

Other _____

ITEM	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ITEM	DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	Y Indel
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please return all pages of this data sheet.

Part I (continued): DNA Results for Questioned Item 4

STR Amplification Kit(s) Used For Item 4: Please check all the brands that apply for this item and record any kit specific information in the blank provided (i.e. 16, Plus, Direct, 16 HS, etc.).

COfiler®/Profiler Plus® _____ PowerPlex® _____

Identifiler® _____ Other _____

ITEM	D1S1656	D2S1338	D2S441	D3S1358	D5S818	D7S820
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

ITEM	D8S1179	D10S1248	D12S391	D13S317	D16S539	D18S51
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

ITEM	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO	FGA
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

ITEM	Penta D	Penta E	SE33	TH01	TPOX	vWA
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

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

Yfiler® _____ PowerPlex® Y _____

Other _____

ITEM	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

ITEM	DYS437	DYS438	DYS439	DYS448	DYS456	DYS458	DYS481	DYS533
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

ITEM	DYS549	DYS570	DYS576	DYS635	DYS643	Y GATA H4	Y Indel
4	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Please return all pages of this data sheet.

Part II: DNA INTERPRETATION

Based on results obtained from DNA analysis, could the Victim (Item 1) and/or the Suspect (Item 2) be a contributor to the questioned stains (Items 3 & 4)?

<u>Victim (Item 1)</u>		<u>Suspect (Item 2)</u>			
	<u>Item 3</u>	<u>Item 4</u>		<u>Item 3</u>	<u>Item 4</u>
Yes	<input type="checkbox"/>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	<input type="checkbox"/>
No	<input type="checkbox"/>	<input type="checkbox"/>	No	<input type="checkbox"/>	<input type="checkbox"/>
Inconclusive	<input type="checkbox"/>	<input type="checkbox"/>	Inconclusive	<input type="checkbox"/>	<input type="checkbox"/>

DNA interpretations not reported; samples analyzed for database purposes only.

Part III: ADDITIONAL COMMENTS

Comments regarding any part of this Forensic Biology Test.

Written conclusions (including statistical information) for DNA analysis are not required.

Any interpretations based on the results obtained should be indicated above.

Note: Laboratories submitting their results for ASCLD/LAB accreditation are asked to report any additional information that will assist in the review of their results. This includes an explanation of any deviations from a full completion of the test and/or unique findings such as elevated stutter.

<p>Return Instructions: Data must be received via online data entry, fax (please include a cover sheet), or mail by March 09, 2015 to be included in the report.</p> <p>QUESTIONS? TEL: +1-571-434-1925 (8 am - 4:30 pm EST) EMAIL: forensics@cts-interlab.com www.ctsforensics.com</p>	<p>Participant Code:</p> <p>ONLINE DATA ENTRY: www.cts-portal.com FAX: +1-571-434-1937 or Toll-Free: 1-866-FAX-2CTS (329-2287) MAIL: Collaborative Testing Services, Inc. P.O. Box 650820 Sterling, VA 20165-0820 USA</p>
---	---

Please return all pages of this data sheet.

RELEASE OF DATA TO ACCREDITATION BODIES

The following Accreditation Releases will apply only to:

Participant Code:

WebCode:

for Test No. **15-581: DNA-Mixture**

This release page must be completed and received by **March 9, 2015** to have this participant's submitted data included in the reports forwarded to the respective Accreditation Bodies.

ASCLD/LAB RELEASE

If your lab has been accredited by ASCLD/LAB and you are submitting this data as part of their external proficiency test requirements, have the laboratory's designated individual complete the following.

The information below must be completed in its entirety for the results to be submitted to ASCLD/LAB.

ASCLD/LAB Legacy Certificate No. _____ ASCLD/LAB International Certificate No. _____

Signature _____ Date _____

Laboratory Name _____

Location (City/State) _____

ANSI-ASQ NAB/FQS RELEASE

If your laboratory maintains its accreditation through ANSI-ASQ NAB/FQS, please complete the following form in its entirety to have your results forwarded.

ANSI-ASQ NAB/FQS Certificate No. _____

Signature and Title _____ Date _____

Laboratory Name _____

Location (City/State) _____

Accreditation Release

Return Instructions

Please submit the completed Accreditation Release at the same time as your full data sheet. See Data Sheet Return Instructions on the previous page.

*Questions? Contact us 8 am-4:30 pm EST
Telephone: +1-571-434-1925
email: forensics@cts-interlab.com*

Please return all pages of this data sheet.

Page 8 of 8