

Manufacturer's Information Test No. 20-5872: DNA - Parentage

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

SAMPLE PREPARATION: All stains were prepared from human whole blood which was drawn into EDTA tubes. Item 1 (75 μ I) was blood from a female (mother) donor, Item 2 (75 μ I) was blood from a male (son) donor, Item 3 (75 μ I) was blood from a male donor who was not the biological father of the Item 2 male, and Item 4 (75 μ I) was blood from a male donor who was the biological father of the Item 2 male. The different items were prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on August 24th, 2020.

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

KINSHIP EXERCISE: This exercise included allelic results representing an uncle and niece relationship.

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

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Amelogenin and STR Results									
	Results compiled from predistribution laboratories and a consensus of at least 10 participants.								
ltem	D1S1656 D2S1338		D2S441	D3S1358	D5S818	D6S1043			
	D7S820	D8\$1179	D10S1248	D12S391	D13S317	D16S539			
	D18S51	D195433	D21S11	D22S1045	Amelogenin	CSF1PO			
	FGA	Penta D	Penta E	SE33	TH01	ΤΡΟΧ			
	vWA	DYS391	DY\$570	DY\$576	Y Indel				
1	15,16.3	17,24	10,11	16,17	11,12	*			
	7,8	10,13	13,14	20,23	8,11	11,12			
	15,18	13,16	31,31	15,16	X,X	10,10			
	19,21	11,12	5,12	18,26.2	7,8	8,11			
	15,17	NM	NM	NM	NM				
2	13,15	21,24	10,11	14,17	12,12	*			
	7,11	10,15	13,15	20,23	8,8	11,12			
	15,16	13,15	31,31	15,15	X,Y	10,11			
	19,21	11,14	12,12	25.2,26.2	8,9	8,8			
	17,17	10	18	17	2				
3	17.3,18.3	16,17	10,10	14,15	10,10	*			
	10,11	12,18	13,13	20,24	13,13	11,12			
	15,17	13,15	29,30	11,11	X,Y	12,12			
	21,23	10,11	14,20	15,28.2	7,9.3	11,11			
	17,19	10	19	17	2				
4	13,15	21,25	11,14	14,18	12,12	*			
	8,11	12,15	15,17	23,25	8,11	12,13			
	13,16	11,15	31,32.2	11,15	X,Y	10,11			
	21,22	9,14	12,12	25.2,26.2	7,9	8,8			
	14,17	10	18	17	2				

YSTR Results

	Results compiled from predistribution laboratories and a consensus of at least 10 participants.									
ltem	DYF38751	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393	
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481	
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4	
2	38,39	14	13,13	12	28	23	10	11	14	
	16	10	12	20	28	14	15	10	25	
	42	11	13	18	17	19	22	12	11	
3	35,40	13	14,17	13	30	23	10	14	14	
	14	11	12	21	32	14	14	10	26	
	38	11	13	19	17	17	22	10	12	
4	38,39	14	13,13	12	28	23	10	11	14	
	16	10	12	20	28	14	15	10	25	
	42	11	13	18	17	19	22	12	11	

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

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

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Paternity Indices										
Mode Paternity Index results compiled from predistribution laboratories and a consensus of at least 10 participants.										
ltem Database	Item Database									
D1\$1656	D2\$1338	D2S441	D3\$1358	D5\$818	D6S1043					
D75820	D8S1179	D1051248	D12S391	D135317	D16S539					
D18\$51	D195433	D21511	D22S1045	Amelogenin	CSF1PO					
FGA	Penta D	Penta E	SE33	TH01	ΤΡΟΧ					
vWA										
4PI - Grand Mean	±3STD Range**									
2.123-11.36	1.864-26.52	0.693-1.097	1.134-8.839	1.737-3.834	*					
1.487-3.132	2.710-6.077	2.021-2.969	1.641-3.536	0.0-9.739	0.625-1.061					
2.102-5.171	1.457-5.231	3.636-10.63	0.862-1.981		1.370-1.991					
1.363-3.069	3.638-13.06	3.094-7.986	0.0-31.128	1.658-5.661	1.560-2.304					
1.457-2.125										
4PI - NIST STRBASE										
7.518	13.36	0.9025	4.690	2.578	*					
2.439	4.812	2.541	2.776	4.149	0.7951					
3.406	3.194	6.944	1.556	-	1.618					
2.187	8.210	5.015	12.01	4.198	1.905					
1.761										

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

**These ranges are provided to allow participants that utilized databases other than FBI PopStats and NIST STRBASE to review their results. Following AABB guidelines, ranges were determined by taking the grand mean of all data submitted for the associated locus and calculating 3 standard deviations above and below that value.

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