



Manufacturer's Information

Test No. 16-5870: DNA - Parentage

Each sample set was a collection of known blood samples, provided on FTA Micro cards, from three individuals (Items 1-3), a mother, daughter and a potential father. Participants were requested to analyze these items using their existing protocols. Also included in the data sheet was a kinship exercise that consisted of autosomal DNA profiles of two individuals for comparison. Participants were requested to determine if an Aunt/Nephew 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 l) was blood from a female (mother) donor, Item 2 (75 μ l) was from a female (daughter) donor and Item 3 (75 μ l) was blood from a male (the actual biological father) donor. Each different Item was prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on January 18th, 2016.

SAMPLE SET ASSEMBLY: For each sample set, all three Items (1-3) were placed in a pre-labeled sample pack envelope. The sealed 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 Aunt/Nephew relationship.

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

Manufacturer's Information, continued
Test No. 16-5870: DNA - Parentage

Amelogenin and STR Results

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

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
1	17,17	19,25	11,11.3	17,18	9,11	9,13
	14,15	13,14	18,20	11,12	10,12	15,17
	14,15	27,31.2	15,16	X,X	11,12	22,23
	*	*	*	9,9.3	11,11	16,18
2	15.3,17	16,19	10,11.3	18,18	11,11	10,13
	13,15	13,14	15,20	8,11	10,11	17,17
	13.2,15	27,27	11,16	X,X	11,12	23,24
	*	*	*	9.3,9.3	11,11	16,17
3	11,15.3	16,18	10,10	16,18	11,13	10,10
	10,13	13,15	15,23	8,12	11,13	15,17
	13.2,15	27,31	11,15	X,Y	10,12	23,24
	*	*	*	7,9.3	8,11	17,18

YSTR Results

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

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	Y Indel	
3	14	13	12	28	23	9	11	13
	16	10	11	22	14	15	*	*
	*	*	*	21	*	11	*	

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

Paternity Indices

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

Database	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

Please note: A consensus of 10 participants was not achieved for Item 3; medians were not determined due to no consensus.