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Manufacturer's Information **Test No. 19-5806: DNA-Mixture**

Each sample pack consisted of two known bloodstains on FTA Micro cards (Items 1 & 2), and two questioned stains; one on clean, brown material (Item 3) and one on clean, off-white material (Item 4). Participants were requested to analyze these items using their existing protocols.

SAMPLE PREPARATION: The stains in Items 1, 2, and 3 were prepared using human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. The stain in Item 4 was a mixture prepared from human whole blood and semen. The semen sample was first thawed and mixed 1:1 with TAE buffer, then mixed 1:1 with the blood. Items 1 (75 μ I) and 3 (50 μ I) were created using blood from the same male donor. Item 2 (75 μ I) was created using blood collected from another male donor, different from the male donor used for Item 1. Item 4 (50 μ I) was a 1:1 mixture that was prepared using blood from the male donor used for Item 1 and semen from the male donor used for Item 2. 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 October 15, 2019 following receipt of predistribution results.

SAMPLE SET ASSEMBLY: For each sample set, all four Items (1-4) were packed into separate envelopes and then placed together 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.

VERIFICATION: All predistribution laboratories confirmed the manufacturer's expected associations. Consistent allelic results were reported for all STR and YSTR loci.

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Manufacturer's Information, continued Test No. 19-5806: DNA-Mixture

		Am	elogenin and	STR Results						
	Results compiled from predistribution laboratories and a consensus of at least 10 participants.									
ltem	D1S1656	D2S1338	D2S441	D3S1358	D5\$818	D6S1043				
	D7S820	D8\$1179	D10S1248	D12S391	D13S317	D16S539				
_	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO				
	FGA	Penta D	Penta E	SE33	TH01	TPOX				
	vWA	DYS391	DYS570	DY\$576	Y Indel					
1	12,15	23,25	10,11	14,16	12,13	*				
	11,12	14,15	15,16	19,21	10,11	10,11				
	15,18	14,15.2	29,34	15,17	X,Y	11,12				
	22,24	2.2,9	13,17	19,27.2	7,8	8,8				
	16,17	10	18	16	2					
2	15.3,16.3	17,19	10,11	14,16	12,12	*				
	9,12	12,16	14,14	18,20	8,13	12,13				
	12,15	14,14	28,30	15,16	X,Y	12,13				
	21,21	9,12	5,17	31.2,33	6,6	8,8				
	17,17	10	17	16	2					
3	12,15	23,25	10,11	14,16	12,13	*				
	11,12	14,15	15,16	19,21	10,11	10,11				
	15,18	14,15.2	29,34	15,17	X,Y	11,12				
	22,24	2.2,9	13,17	19,27.2	7,8	8,8				
	16,17	10	18	16	2					
4-Blood	12,15	23,25	10,11	14,16	12,13	*				
	11,12	14,15	15,16	19,21	10,11	10,11				
	15,18	14,15.2	29,34	15,17	X,Y	11,12				
	22,24	2.2,9	13,17	19,27.2	7,8	8,8				
	16,17	10	18	16	2					
4-Semen	15.3,16.3	17,19	10,11	14,16	12,12	*				
	9,12	12,16	14,14	18,20	8,13	12,13				
	12,15	14,14	28,30	15,16	X,Y	12,13				
	21,21	9,12	5,17	31.2,33	6,6	8,8				
	17,17	10	17	16	2					

^{*} Results were not received by a minimum of 10 participants for the loci indicated.

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Manufacturer's Information, continued Test No. 19-5806: DNA-Mixture

YSTR Results												
Results compiled from predistribution laboratories and a consensus of at least 10 participants.												
ltem	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393			
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481			
L	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4			
1	38.2,40	15	17,18	13	31	21	10	11	14			
	14	11	12	21	32	16	16	11	25			
	39	11	11	18	16	21	20	13	12			
2	36,36	14	11,14	13	29	24	10	13	13			
	15	12	11	20	28	14	18	11	22			
	37	12	13	17	16	22	25	10	12			
3	38.2,40	15	17,18	13	31	21	10	11	14			
	14	11	12	21	32	16	16	11	25			
	39	11	11	18	16	21	20	13	12			
4-Blood	38.2,40	15	17,18	13	31	21	10	11	14			
	14	11	12	21	32	16	16	11	25			
	39	11	11	18	16	21	20	13	12			
4-Semen	36,36	14	11,14	13	29	24	10	13	13			
	15	12	11	20	28	14	18	11	22			
	37	12	13	17	16	22	25	10	12			

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