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Manufacturer's Information Test No. 21-5806: DNA-Mixture

Each sample pack consisted of two known bloodstains on FTA Micro cards (Items 1 & 2), and two questioned stains on clean, colored fabric (Item 3 & 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 bags or EDTA tubes. The stain in Item 3 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. Item 1 (75 μ I) was prepared using blood collected from a female donor. Item 2 (75 μ I) was created using blood collected from a male donor. Item 3 (50 μ I) was created using a mixture of blood from the female donor used in Item 1 and semen from the male donor used in Item 2. Item 4 (50 μ I) was created using a 1:1 mixture of blood from the female donor used in Item 1 and blood collected from a male donor, but one different than that of 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 18, 2021 following completion of verification stage.

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: Laboratories that conducted predistribution analysis of the samples reported consistent allelic results and confirmed the manufacturer's expected associations.

The information presented here is that received from the sample manufacturer. It presents details of the design specification for the test samples and/or details of how they were prepared. This information does not necessarily represent the answers that should or could be obtained from an examination of the sample. Final interpretation of the results should be deferred until the summary report is available.

Manufacturer's Information, continued Test No. 21-5806: DNA-Mixture

Amelogenin and STR Results												
	Results compiled from predistribution laboratories and a consensus of at least 10 participants.											
Item	D1S1656 D2S1338		D2S441	D3S1358	D5S818	D6S1043						
	D7S820	D8S1179	D10S1248	D12S391	D13S317	D16S539						
	D18S51	D19S433	D21S11	D22S1045	Amelogenin	CSF1PO						
	FGA	Penta D	Penta E	SE33	TH01	TPOX						
	vWA	DYS391	DYS570	DYS576	Y Indel							
` =	12,12	17,24	11,14	15,16	12,12	*						
	11,11	14,14	13,14	17,23	12,12	10,12						
	14,20	13,14	29,29	15,15	X,X	11,12						
	21,25	11,12	13,16	22.2,27.2	9,9.3	8,11						
	16,17	NM	NM	NM	NM							
2	13,15	19,24	12,13	12,18	8,11	*						
	9,10	14,14	14,16	17,18	11,11	9,9						
	15,15	12,14	30,35	16,17	X,Y	8,10						
	22,23	8,10	13,14	19,28.2	7,7	8,8						
	11,18	10	19	17	2							
3-Blood	12,12	17,24	11,14	15,16	12,12	*						
	11,11	14,14	13,14	17,23	12,12	10,12						
	14,20	13,14	29,29	15,15	X,X	11,12						
	21,25	11,12	13,16	22.2,27.2	9,9.3	8,11						
	16,17	NM	NM	NM	NM							
3-Semen	13,15	19,24	12,13	12,18	8,11	*						
	9,10	14,14	14,16	17,18	11,11	9,9						
	15,15	12,14	30,35	16,17	X,Y	8,10						
	22,23	8,10	13,14	19,28.2	7,7	8,8						
	11,18	10	19	17	2							
4	12,14,16.3	17,20,22,24	11,12,14	15,16,19	9,11,12	*						
	7,10,11	12,14	13,14	17,18,19,23	12,12	10,11,12,14						
	14,15,16,20	13,14	29,31.2	15,16	X,Y	11,12						
	21,23,25	11,12,13	5,13,16,17	17,18,22.2,27.2	9,9.3	8,10,11						
	16,17	10	17	18	2							

YSTR Results													
Results compiled from predistribution laboratories and a consensus of at least 10 participants.													
Item	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393				
	DYS437	DYS438	DYS439	DYS448	DYS449	DYS456	DYS458	DYS460	DYS481				
	DYS518	DYS533	DYS549	DYS570	DYS576	DYS627	DYS635	DYS643	YGATAH4				
2	37,38	14	17,17	13	30	21	10	11	13				
	14	11	13	21	32	15	20	10	25				
	41	12	12	19	17	16	22	13	11				
3-Semen	37,38	14	17,17	13	30	21	10	11	13				
	14	11	13	21	32	15	20	10	25				
	41	12	12	19	17	16	22	13	11				
4	35,35	14	11,14	13	29	24	10	12	12				
	15	12	12	19	29	15	17	10	22				
	38	12	12	17	18	21	23	10	12				

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

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

The information presented here is that received from the sample manufacturer. It presents details of the design specification for the test samples and/or details of how they were prepared. This information does not necessarily represent the answers that should or could be obtained from an examination of the sample. Final interpretation of the results should be deferred until the summary report is available.