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Manufacturer's Information Test No. 23-5901/2: Probabilistic Genotyping

Each sample set consisted of two known bloodstains provided on either white fabric or FTA™ Micro Cards (Items 1 & 2), and two questioned stains on colored fabric (Items 3 & 4). Participants were requested to analyze these items using their existing protocols.

SAMPLE PREPARATION: The substrates for Items 1, 2, and 4 were prepared using human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. The substrates for Item 3 were prepared using a mixture of human whole blood and semen. The white fabric known bloodstains were spotted with 50 µl of sample and the FTA™ Micro Card known bloodstains were spotted with 75 µl of sample. Item 1 was created using blood from a female donor. Item 2 was created using blood from a male donor. Item 3 was created by combining two parts blood from the Item 1 female donor and one part semen from a male donor whose known standard was not provided. Item 4 was created by combining one part blood from the Item 1 female donor, three parts blood from the Item 2 male donor, and two parts blood from a third male donor whose known standard was not provided. The items prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on February 08, 2023.

SAMPLE SET ASSEMBLY: For each sample set, all Items (1-4) were packaged into separate envelopes and then placed together in a pre-labeled sample set envelope and sealed. The sealed sample set 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 loci, with the exception of Item 4. Two predistribution participants were missing one or more alleles at a few loci. After completion of an internal investigation the test was approved for release. No predistribution laboratories analyzed the samples for YSTR data.

Key to Test Substrates

5901 - Cloth Swatches

5902 - FTA™ Micro Cards

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 results 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.

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Manufacturer's Information, continued Test No. 23-5901/2: Probabilistic Genotyping

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 vWA	Penta D DYS391	Penta E DYS570	SE33 DYS576	TH01 Y Indel	TPOX						
1	14,16	18,23	11,11.3	15,19	13,14	11,18						
	9,11	13,17	12,14	15,20	12,13	9,11						
	16,18	14,14	31,32.2	16,18	X,X	9,12						
	22,25	9,12	13,13	18,28.2	7,9	9,11						
	14,15	NM	NM	NM	NM							
2	14,15	19,21	11,14	15,15	11,13	12,24						
	10,10	12,15	10,15	17,19.1	12,12	10,11						
	15,15	13,14	29,31	11,17	X,Y	10,12						
	21,23	9,12	9,14	18,18	8,9	6,11						
	16,17	11	*	*	2							
3-Blood	14,16	18,23	11,11.3	15,19	13,14	11,18						
	9,11	13,17	12,14	15,20	12,13	9,11						
	16,18	14,14	31,32.2	16,18	X,X	9,12						
	22,25	9,12	13,13	18,28.2	7,9	9,11						
	14,15	NM	NM	NM	NM							
3-Semen	11,17.3	24,24	12,14	15,19	12,12	11,14						
	9,12	14,14	14,14	19.3,20	11,12	10,12						
	17,18	13,13	29,32.2	16,17	X,Y	10,13						
	22,23	12,13	7,12	16,27.2	7,9.3	8,11						
	15,17	11	* 	*	2							
4	11,14,15,16	18,19,21,22,23	11,11.3,14	14,15,19	11,13,14	11,12,13,18,24						
	9,10,11,12	12,13,14,15,17	10,12,14,15	15,17,19,19.1,20,24	12,13	8,9,10,11						
	15,16,18,22.2	10,13,14	28,29,31,32.2	11,15,16,17,18	X,Y	9,10,12						
	20,21,22,23,25	2.2,9,12	7,8,9,13,14	18,19,20,28.2	7,8,9,9.3	6,8,9,11						
	14,15,16,17	11	*	*	2							

YSTR Results												
Results compiled from a consensus of at least 10 participants.												
ltem	DYF387S1	DYS19	DYS385	DYS389-I	DYS389-II	DYS390	DYS391	DYS392	DYS393			
	DYS437 DYS518	DYS438 DYS533	DYS439 DYS549	DYS448 DYS570	DYS449 DYS576	DYS456 DYS627	DYS458 DYS635	DYS460 DYS643	DYS481 YGATAH4			
2	35,37	14	11,12	13	29	24	11	13	13			
	15	12	11	19	30	16	17	11	22			
	40	12	*	17	19	21	23	*	12			
3-Semen	35,36	14	11,11	13	29	24	11	13	13			
	14	12	12	19	31	15	17	11	22			
	38	12	*	16	18	23	23	*	12			
4	*	14	11,12,14	13	29	24	11	13	13			
	15	12	11	19,20	*	15,16	17	*	22			
	*	12,13	*	17	19,20	*	23	*	12			

^{*} Results were not received by a minimum of 10 participants for the loci indicated. NM - Non-Male profile, YSTR results not expected.

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