



Individual Report

Test 24-5702

Forensic Biology

Test Summary: Each sample set consisted of two “known” bloodstains (Items 1 and 2) and two “questioned” stains (Items 3 and 4). Item 1 was created using blood from a male donor. Item 2 and Item 3 were created using blood from the same male donor, different from the blood that was used in Item 1. Item 4 was created using a mixture of blood from the male donor used in Item 1 and semen from another male donor whose known standard was not provided. The donors from Item 1 and Item 2 were maternally related. *Please see the Summary Report for summary comments and additional information, including statistical analysis (if applicable).*

Screening Results

Item 3			Item 4		
<u>Blood</u>	Pos	FOB, TMB, Luminol	<u>Blood</u>	Pos	FOB, TMB, Luminol
<u>Semen</u>	Neg	AP, RSID Semen, ALS	<u>Semen</u>	Pos	AP, RSID Semen, ALS
<u>Saliva</u>	Neg	RSID Saliva, ALS	<u>Saliva</u>	Pos	RSID Saliva, ALS
<u>Human Origin</u>	Pos	FOB	<u>Human Origin</u>	Pos	FOB, RSID Semen, RSID Saliva
<u>Y Screening</u>	NT		<u>Y Screening</u>	NT	
<u>Other</u>			<u>Other</u>		

Pos - Positive; Neg - Negative; Inc - Inconclusive; NT - Not Tested

DNA Interpretations

Based on results obtained from DNA analysis, could the Victim (Item 1) and/or the Suspect (Item 2) be a contributor to the questioned stains (Items 3 & 4)?

Participant U8893A		Victim (Item 1)		Suspect (Item 2)	
		Item 3	Item 4	Item 3	Item 4
		No	Yes	Yes	No
All Participants	Yes	17	633	658	1
	No	640	5	0	636
	Inconclusive	1	5	0	6
	No Interpretation	23	38	23	38
	No Response	2	2	2	2

Participants analyzing DNA for database purposes only: 18

Participants reporting DNA results: 701

STR Results for Participant U8893A						
Item	Amplification Kits (Probabilistic Genotyping Software)					
	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	
1	PowerPlex® Fusion 6C, GlobalFiler™ IQC, NGM Detect					
	13,14	21,22	11,11	17,18	12,13	
	8,9	11,14	13,14	17,18	11,12	9,11
	16,20	11,14.2	30,32.2	15,18	X,Y	8,11
	21,25	11,11	7,8	19,19	7,8	8,11
	13,19	10	20	16	2	
2	PowerPlex® Fusion 6C, GlobalFiler™ IQC, NGM Detect					
	16,16.3	23,23	10,11	17,17	11,13	
	8,10	14,14	15,16	19.1,19.3	12,12	11,13
	13,18	13,14.2	27,32.2	14,15	X,Y	12,12
	25,25	9,11	8,14	21,26.2	7,8	6,11
	12,19	11	18	18	2	
3	PowerPlex® Fusion 6C, GlobalFiler™ IQC, NGM Detect					
	16,16.3	23,23	10,11	17,17	11,13	
	8,10	14,14	15,16	19.1,19.3	12,12	11,13
	13,18	13,14.2	27,32.2	14,15	X,Y	12,12
	25,25	9,11	8,14	21,26.2	7,8	6,11
	12,19	11	18	18	2	
4	PowerPlex® Fusion 6C, GlobalFiler™ IQC, NGM Detect					
	13,14,19.3	17,21,22	11,11.3,12	17,18	12,13	
	8,9,10	11,14,15	13,14	17,18	11,12,13	9,11,13
	13,16,19,20	11,14.2,17.2	30,32.2	14,15,17,18	X,Y	8,11
	19,20,21,25	11,12	7,8,12	19,27.2,31.2	6,7,8	8,11
	13,15,18,19	10	17,20	16,18	2	

Manufacturer's 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	
1	13,14	21,22	11,11	17,18	12,13	12,18
	8,9	11,14	13,14	17,18	11,12	9,11
	16,20	11,14.2	30,32.2	15,18	X,Y	8,11
	21,25	11,11	7,8	19,19	7,8	8,11
	13,19	10	20	16	2	
2	16,16.3	23,23	10,11	17,17	11,13	11,12
	8,10	14,14	15,16	19.1,19.3	12,12	11,13
	13,18	13,14.2	27,32.2	14,15	X,Y	12,12
	25,25	9,11	8,14	21,26.2	7,8	6,11
	12,19	11	18	18	2	
3	16,16.3	23,23	10,11	17,17	11,13	11,12
	8,10	14,14	15,16	19.1,19.3	12,12	11,13
	13,18	13,14.2	27,32.2	14,15	X,Y	12,12
	25,25	9,11	8,14	21,26.2	7,8	6,11
	12,19	11	18	18	2	
4-Blood	13,14	21,22	11,11	17,18	12,13	*
	8,9	11,14	13,14	17,18	11,12	9,11
	16,20	11,14.2	30,32.2	15,18	X,Y	8,11
	21,25	11,11	7,8	19,19	7,8	8,11
	13,19	10	20	16	2	
4-Semen	14,19.3	17,17	11.3,12	17,17	12,13	12,19
	8,10	14,15	13,13	18,18	12,13	11,13
	13,19	14.2,17.2	30,30	14,17	X,Y	11,11
	19,20	12,12	7,12	27.2,31.2	6,6	11,11
	15,18	10	17	18	2	

* = A consensus was not achieved for the loci indicated.

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

YSTR Results for Participant U8893A

Item	Amplification Kits								
	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
1	Yfiler® Plus								
	36,38	15	15,15	13	31	22	10	11	13
	14	11	12	20	32	16	17	11	27
	39	11		20	16	19	22		12
2	Yfiler® Plus								
	38,39	16	11,13	13	30	25	11	11	13
	14	11	10	21	36	16	17	11	23
	38	12		18	18	17	23		13
3	Yfiler® Plus								
	38,39	16	11,13	13	30	25	11	11	13
	14	11	10	21	36	16	17	11	23
	38	12		18	18	17	23		13
4	Yfiler® Plus								
	34,36,38	14,15	12,14,15	13	29,31	22,23	10	11,13	13
	14,15	11,12	12	19,20	31,32	16,17	17,18	10,11	23,27
	38,39	11,12		17,20	16,18	19,23	22,23		12

Manufacturer's 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
1	36,38	15	15,15	13	31	22	10	11	13
	14	11	12	20	32	16	17	11	27
	39	11	12	20	16	19	22	14	12
2	38,39	16	11,13	13	30	25	11	11	13
	14	11	10	21	36	16	17	11	23
	38	12	12	18	18	17	23	10	13
3	38,39	16	11,13	13	30	25	11	11	13
	14	11	10	21	36	16	17	11	23
	38	12	12	18	18	17	23	10	13
4-Blood	36,38	15	15,15	13	31	22	10	11	13
	14	11	12	20	32	16	17	11	27
	39	11	12	20	16	19	22	14	12
4-Semen	34,36	14	12,14	13	29	23	10	13	13
	15	12	12	19	31	17	18	10	23
	38	12	13	17	18	23	23	10	12

Mitochondrial HVRII & HVRI DNA Results for Participant U8893A

No Mitochondrial Results were submitted by this participant.

Manufacturer's Mitochondrial HVRII & HVRI DNA Results

Note: The results provided below are based on a population of at least 10 participants. The nucleotide ranges represent the range tested by a minimum of 75% of participants.

Item	HVR-II	HVR-I
1	63-385	16024-16376
2	64-392	16024-16377
3	64-369	16024-16376

Note: The results provided below are based on a population of at least 10 participants. These results may not represent all base deviations reported by every participant due to the specific nucleotide ranges sequenced by individual participants.

	73.0	150.0	189.0	200.0	263.0	309.1	315.1	16183.0	16189.0	16223.0	16260.0	16327.0
ITEM 1	G	T	G	G	G	C	C	C	C	T	T	T
ITEM 2	G	T	G	G	G	C	C	C	C	T	T	T
ITEM 3	G	T	G	G	G	C	C	C	C	T	T	T