



FORENSIC TESTING PROGRAM

Manufacturer's Information
Test No. 10-581: DNA - Mixture

Each sample pack consisted of two known bloodstains on clean, white cloth (Items 1 & 2), and two questioned stains one on clean, blue and red plaid cloth (Item 3) and one on clean, tan/green/brown striped cloth (Item 4). The stains in Items 1, 2 and 3 were prepared from human whole blood which was drawn into citric acid preservative bloodbank bags. Item 4 was a mixture prepared from human whole blood and semen. The semen, procured from a cryobank, was from a single donor, but stored frozen in multiple vials at -196° C in liquid nitrogen tanks. The semen was thawed and first mixed 1:1 with TAE buffer, then mixed 1:1 with the blood. This mixture was used to spot the Item 4 substrate. Item 1 was blood collected from a female donor, Item 2 was blood collected from a male donor and Item 3 was a mixture of blood collected from the Item 1 female donor and blood collected from the Item 2 male donor that was mixed prior to spotting on the Item 3 substrate. The Item 4 mixture contained the blood of the Item 1 female donor and semen from a donor whose known blood standard was not provided to participants. Stains from different sources were prepared on separate days or at separate times and were packaged once they were thoroughly dried.

Sample Preparation Schedule				
<u>Item</u>	<u>Sample Collected</u>	<u>Prepared</u>	<u>Packaged</u>	<u>Volume</u>
1	November 11, 2009	November 13, 2009	November 16, 2009	50 µl
2	November 11, 2009	November 16, 2009	November 16, 2009	50 µl
3	November 11, 2009	November 16, 2009	November 17, 2009	50 µl
4	Blood: November 11, 2009, Semen: Mar - Apr 1993	November 20, 2009	November 23, 2009	50 µl

Completed sample sets were stored at -20°C until shipment on January 4, 2009 following receipt of predistribution results.

Amelogenin and STR Results								
<i>Results compiled from predistribution laboratories and a consensus of at least 10 participants.</i>								
<u>Item</u>	<u>D3S1358</u>	<u>D5S818</u>	<u>D7S820</u>	<u>D8S1179</u>	<u>D13S317</u>	<u>D16S539</u>	<u>D18S51</u>	<u>D21S11</u>
1	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
2	15,16	7,8	8,11	12,15	8,11	11,13	16,17	29,35
3	14,15,16	7,8,9,10	8,10,11	12,13,15,16	8,10,11	10,11,12,13	13,14,16,17	29,30,32.2,35
4-Blood	14,15	9,10	8,10	13,16	10,11	10,12	13,14	30,32.2
4-Semen	16,17	10,12	8,12	8,12	11,12	11,13	14,15	31,33.2
<u>Item</u>	<u>Amel</u>	<u>CSF1PO</u>	<u>FGA</u>	<u>TH01</u>	<u>TPOX</u>	<u>vWA</u>	<u>Penta D</u>	<u>Penta E</u>
1	X,X	10,11	23,25	7,10	11,11	17,17	12,12	5,10
2	X,Y	10,12	24,27	7,9.3	8,11	14,16	10,12	5,11
3	X,Y	10,11,12	23,24,25,27	7,9.3,10	8,11	14,16,17	10,12	5,10,11
4-Blood	X,X	10,11	23,25	7,10	11,11	17,17	12,12	5,10
4-Semen	X,Y	11,12	22,23	9,9.3	11,11	17,19	9,13	14,17
<u>Item</u>	<u>D2S1338</u>	<u>D19S433</u>						
1	18,20	13,14						
2	21,23	12,14.2						
3	18,20,21,23	12,13,14,14.2						
4-Blood	18,20	13,14						
4-Semen	17,22	15,15.2						

YSTR results on next page.

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. 10-581: DNA - Mixture

YSTR Results										
<i>Results compiled from predistribution laboratories and a consensus of at least 10 participants.</i>										
<u>Item</u>			<u>DYS19</u>	<u>DYS385</u>	<u>DYS389-I</u>	<u>DYS389-II</u>	<u>DYS390</u>	<u>DYS391</u>		
2			15	14,15.2	14	31	21	10		
3			15	14,15.2	14	31	21	10		
4-Semen			14	15,18	13	29	22	10		
<u>Item</u>	<u>DYS392</u>	<u>DYS393</u>	<u>DYS437</u>	<u>DYS438</u>	<u>DYS439</u>	<u>DYS448</u>	<u>DYS456</u>	<u>DYS458</u>	<u>DYS635</u>	<u>YGATAH4</u>
2	11	14	14	11	11	20	15	18	23	11
3	11	14	14	11	11	20	15	18	23	11
4-Semen	11	13	15	9	11	20	15	<14*	22	11

*Several participants reported the allele call "13" at this locus; further information will be available in the Summary Report.