



**FORENSIC TESTING PROGRAM**

*Manufacturer's Information*  
**Test No. 10-573: Forensic Biology**

Each sample pack consisted of two known bloodstains on FTA Genecards (Items 1 & 2), and two questioned stains, one on clean red material (Item 3) and one on clean yellow material (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 and Items 2 and 3 were blood collected from one male donor. 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 at separate times and were packaged once they were thoroughly dried.

<b>Sample Preparation Schedule</b>				
<u>Item</u>	<u>Sample Collected</u>	<u>Prepared</u>	<u>Packaged</u>	<u>Volume</u>
1	March 4, 2010	March 5, 2010	March 5, 2010	75 µl
2	March 4, 2010	March 8, 2010	March 8, 2010	75 µl
3	March 4, 2010	March 8, 2010	March 9, 2010	50 µl
4	Blood: March 4, 2010; Semen: Sept 2005-June 2006	March 5, 2010	March 8, 2010	50 µl

Completed sample sets were stored at -20°C until shipment on April 19, 2010 following receipt of predistribution results.

<b>Amelogenin and STR Results</b>								
<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	14,17	10,13	11,11	12,15	11,12	9,12	12,12	29,31.2
2	17,18	8,11	9,11	13,14	11,12	11,12	15,15	28,32.2
3	17,18	8,11	9,11	13,14	11,12	11,12	15,15	28,32.2
4-Blood	14,17	10,13	11,11	12,15	11,12	9,12	12,12	29,31.2
4-Semen	15,18	11,12	8,8	8,12	8,11	9,11	14,20	29,30
<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	11,12	19,23	9.3,9.3	8,8	16,18	8,13	5,17
2	X,Y	12,12	19,22	7,8	8,8	18,19	5,8	12,16
3	X,Y	12,12	19,22	7,8	8,8	18,19	5,8	12,16
4-Blood	X,X	11,12	19,23	9.3,9.3	8,8	16,18	8,13	5,17
4-Semen	X,Y	11,12	22,23	7,9	8,8	15,17	10,12	7,13
<u>Item</u>	<u>D2S1338</u>	<u>D19S433</u>						
1	17,20	14,16.2						
2	18,21	14.2,15						
3	18,21	14.2,15						
4-Blood	17,20	14,16.2						
4-Semen	23,24	15,15.2						

YSTR and Mitochondrial 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. 10-573: Forensic Biology

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			16	17,19	14	31	21	10		
3			16	17,19	14	31	21	10		
4-Semen			14	12,14	13	29	24	11		
<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	15	14	11	11	21	17	17	22	11
3	11	15	14	11	11	21	17	17	22	11
4-Semen	13	13	15	12	12	19	16	16	23	12

Mitochondrial DNA Sequencing Results													
<b>Bases Sequenced</b>	<i>The following range of bases sequenced for each Item reflects the consensus results of the base pairs, as compiled from predistribution laboratories and a consensus of at least 10 participants.</i>												
<u>Item</u>	<u>HVR-I</u>					<u>HVR-II</u>							
<b>1</b>	<b>16189-16399</b>					<b>73-315.1</b>							
<b>2</b>	<b>16172-16390</b>					<b>73-368</b>							
<b>3</b>	<b>16172-16390</b>					<b>73-368</b>							
-----													
HVRI Region													
	16172.0	16189.0	16192.0	16223.0	16256.0	16270.0	16278.0	16362.0	16390.0	16399.0			
<b>ITEM 1</b>		C	T		T	T		C		G			
<b>ITEM 2</b>	C	C		T			T		A				
<b>ITEM 3</b>	C	C		T			T		A				
HVRII Region													
	73.0	93.0	146.0	150.0	152.0	182.0	195.0	198.0	263.0	269.0	315.1	325.0	368.0
<b>ITEM 1</b>	G								G		C		
<b>ITEM 2</b>	G	G	C	T	C	T	C	T	G	T	C	T	G
<b>ITEM 3</b>	G	G	C	T	C	T	C	T	G	T	C	T	G

*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.*