



**FORENSIC TESTING PROGRAM**

*Manufacturer's Information*  
**Test No. 10-571: Forensic Biology**

Each sample pack consisted of two known bloodstains on clean, white cotton cloth (Items 1 & 2), and two questioned stains one on clean, plaid cloth (Item 3) and one on clean, green cloth (Item 4). The stains in Items 1, 2 and 4 were prepared from human whole blood which was drawn into citric acid preservative bloodbank bags. Item 3 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 3 substrate. Item 1 was blood collected from a female donor and Items 2 and 4 were blood collected from one male donor. The Item 3 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 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	November 11, 2009	November 17, 2009	November 18, 2009	50 µl
2	November 11, 2009	November 18, 2009	November 19, 2009	50 µl
3	Blood: Nov. 11, 2009, Semen: Apr.- June 1989	November 19, 2009	November 20, 2009	50 µl
4	November 11, 2009	November 18, 2009	November 19, 2009	50 µl

Completed sample sets were stored at -20°C until shipment on January 5, 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	17,17	11,13	8,9	13,14	9,13	11,11	15,20	30.2,31
2	16,18	14,14	9,11	13,13	8,12	12,12	13,17	28,30
3-Blood	17,17	11,13	8,9	13,14	9,13	11,11	15,20	30.2,31
3-Semen	15,16	11,12	10,11	13,14	11,13	11,13	13,15	31.2,33.2
4	16,18	14,14	9,11	13,13	8,12	12,12	13,17	28,30
<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	10,13	19,24	7,8	6,7	13,17		
2	X,Y	12,13	20,25	9,9.3	8,8	18,19		
3-Blood	X,X	10,13	19,24	7,8	6,7	13,17		
3-Semen	X,Y	12,12	21,23	6,8	8,8	16,18		
4	X,Y	12,13	20,25	9,9.3	8,8	18,19		
<u>Item</u>	<u>D2S1338</u>	<u>D19S433</u>						
1	21,25	12,14						
2	23,25	12,14						
3-Blood	21,25	12,14						
3-Semen	17,18	13,14						
4	23,25	12,14						

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. 10-571: Forensic Biology**

YSTR Results										
<i>Results compiled from predistribution laboratories and a consensus of at least 10 participants.</i>										
<b>Item</b>		<b><u>DYS19</u></b>	<b><u>DYS385</u></b>	<b><u>DYS389-I</u></b>	<b><u>DYS389-II</u></b>	<b><u>DYS390</u></b>	<b><u>DYS391</u></b>			
2		14	15,15	14	30	24	11			
3-Semen		15	15,16	13	31	23	10			
4		14	15,15	14	30	24	11			
<b>Item</b>	<b><u>DYS392</u></b>	<b><u>DYS393</u></b>	<b><u>DYS437</u></b>	<b><u>DYS438</u></b>	<b><u>DYS439</u></b>	<b><u>DYS448</u></b>	<b><u>DYS456</u></b>	<b><u>DYS458</u></b>	<b><u>DYS635</u></b>	<b><u>YGATAH4</u></b>
2	13	13	14	12	12	18	17	17	23	11
3-Semen	12	14	14	10	11	20	15	16	21	11
4	13	13	14	12	12	18	17	17	23	11

Mitochondrial DNA Sequencing Results									
<b>Bases Sequenced</b>	<i>The following is the overall range of bases sequenced for each Item, 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>15998-16569</b>	<b>1-576</b>							
<b>2</b>	<b>15998-16569</b>	<b>1-576</b>							
<b>4</b>	<b>15998-16569</b>	<b>1-576</b>							
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<b>HVRI Region</b>									
	16129.0	16223.0	16234.0	16278.0	16286.0	16293.0	16294.0	16309.0	16390.0
<b>ITEM 1</b>	R	T		T	T		T	G	A
<b>ITEM 2</b>			T			G			
<b>ITEM 4</b>			T			G			
<b>HVRII Region</b>									
	73.0	146.0	152.0	195.0	263.0	315.1	315.2		
<b>ITEM 1</b>	G	C	C	C	G	C			
<b>ITEM 2</b>					G	C	C		
<b>ITEM 4</b>					G	C	C		

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