



## *Manufacturer's Information*

### **Test No. 22-5904/5: Probabilistic Genotyping**

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

**SAMPLE PREPARATION:** The stains on Items 1, 2 and 3 were prepared using human whole blood which was either drawn into citric acid preservative bags or EDTA tubes. The stain on Item 4 was prepared using a mixture from human whole blood and semen. The semen sample was first thawed and mixed 1:1 with TAE buffer, then mixed with the blood. The white fabric known bloodstains were spotted with 50  $\mu$ l of sample and the FTA™ Micro Card known bloodstains were spotted with 75  $\mu$ l 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, three parts blood from the Item 2 male donor, and one part blood from an additional female donor whose known standard was not provided. Item 4 was created by combining two parts blood from the Item 1 female donor and one part semen from an additional male donor whose known standard was not provided. Stains from different sources were prepared at separate times and were packaged once they were thoroughly dried. Completed sample sets were stored at -20°C until shipment on August 23, 2022 following completion of the verification stage.

**SAMPLE SET ASSEMBLY:** For each sample set, all four Items (1-4) were packaged into separate envelopes and then placed together in a pre-labeled sample pack envelope and sealed. The sealed sample pack 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. No predistribution laboratories analyzed the samples for YSTR data.

#### **Key to Test Substrates**

5904 - Cloth Swatches

5905 - FTA™ Micro Cards

*Manufacturer's Information, continued*  
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Amelogenin and STR Results						
<i>Results compiled from predistribution laboratories and a consensus of at least 10 participants.</i>						
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	13,15.3	17,19	10,12	16,18	12,13	*
	11,12	12,16	14,14	17,18	11,12	11,13
	12,16	13,14	28,31.2	15,16	X,X	10,12
	23,24	*	*	14,17	6,8	8,11
	17,18	NM	NM	NM	NM	
2	12,16	19,24	10,11.3	16,16	11,13	*
	11,12	12,12	17,18	15,21	12,13	12,13
	13,18	14,15.2	29,32.2	15,15	X,Y	9,10
	19,22	*	*	25.2,29.2	6,7	8,9
	16,16	*	*	*	*	
3	12,13,15,15.3,16,17.3	16,17,19,20,24	10,11,11.3,12	14,16,18	10,11,12,13	*
	9,10,11,12	12,14,16	13,14,17,18	15,17,18,20,21,23	8,11,12,13	11,12,13
	12,13,16,17,18	13,14,15,15.2	28,29,31.2,32.2	15,16	X,Y	9,10,12,13
	19,22,23,24	*	*	*	6,7,8,9.3	8,9,11
	16,17,18	*	*	*	*	
4-Blood	13,15.3	17,19	10,12	16,18	12,13	*
	11,12	12,16	14,14	17,18	11,12	11,13
	12,16	13,14	28,31.2	15,16	X,X	10,12
	23,24	*	*	*	6,8	8,11
	17,18	NM	NM	NM	NM	
4-Semen	11,17.3	17,21	11,11	15,16	11,12	*
	10,11	12,13	13,14	17,20	9,13	10,12
	15,17	13,14	30,30.2	14,15	X,Y	12,12
	21,24	*	*	*	6,9	8,11
	17,17	*	*	*	*	

*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.*

*Manufacturer's Information, continued*  
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<b>YSTR Results</b>									
<i>Results compiled from predistribution laboratories and a consensus of at least 8 participants.</i>									
<b>Item</b>	<b>DYF387S1</b>	<b>DYS19</b>	<b>DYS385</b>	<b>DYS389-I</b>	<b>DYS389-II</b>	<b>DYS390</b>	<b>DYS391</b>	<b>DYS392</b>	<b>DYS393</b>
	<b>DYS437</b>	<b>DYS438</b>	<b>DYS439</b>	<b>DYS448</b>	<b>DYS449</b>	<b>DYS456</b>	<b>DYS458</b>	<b>DYS460</b>	<b>DYS481</b>
	<b>DYS518</b>	<b>DYS533</b>	<b>DYS549</b>	<b>DYS570</b>	<b>DYS576</b>	<b>DYS627</b>	<b>DYS635</b>	<b>DYS643</b>	<b>YGATAH4</b>
<b>2</b>	*	13	17,19	13	30	24	9	11	13
	14	10	12	20	*	15	16	*	22
	*	12	*	22	17	*	23	*	12
<b>3</b>	*	13	17,19	13	30	24	9	11	13
	14	10	12	20	*	15	16	*	22
	*	12	*	22	17	*	23	*	12
<b>4-Semen</b>	*	14	11,13	15	31	23	11	14	14
	14	10	10	19	*	14	18	*	21
	*	11	*	19	16	*	22	*	12

\* Results were not received from a minimum of 8 participants for the STR and/or YSTR loci indicated.

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