



Manufacturer's Information

Test No. 17-578: Body Fluid Identification

Each sample pack consisted of six separate items for testing. Two items contained non-scenario related swabs (Items 1 and 2), two items contained swabs that related to the provided scenario (Items 3 and 4), and two items (Items 5 and 6) contained distinct articles of clothing that also related to the provided scenario. Participants were asked to examine Items 1 and 2 for body fluids that they typically encounter in routine casework examinations. For Items 3 through 6, the participants were asked to examine the items using the information provided by the scenario for guidance.

SAMPLE PREPARATION: The stain on Item 1 (Swabs: white plastic handle) was prepared with human semen. The stain on Item 2 (Swabs: pink plastic handle) was prepared using human saliva. The stain on Item 3 (Swabs: blue plastic handle) was prepared from a suspension of human whole blood and human semen. The stain on Item 4 (Swabs: yellow plastic handle) was prepared using human whole blood. The stain on Item 5 (Red Cotton Headband) was prepared from a suspension of human whole blood and human saliva. The stain on Item 6 (Torn White Polyester Shoelace) was prepared from a suspension of human saliva and human semen. In all samples where semen was used, the semen was mixed in a 1:1 ratio with TAE buffer. In all samples where a mixture is present, the two body fluids were mixed in a 1:1 ratio. Stains from different sources were prepared at separate times and were packaged once thoroughly dried.

SAMPLE SET ASSEMBLY: Each sample set contained the following: questioned swabs (Items 1, 2, 3, and 4), two questioned articles of clothing (Item 5: red cotton headband and Item 6: one half of a white polyester shoelace), and one package of unused swabs for substrate control. All items were packaged and sealed into individual envelopes, which were then packaged. The entire process stated above was repeated for each individual sample set.

VERIFICATION: All but one pre-distribution participant confirmed the manufacturer's expectations by reporting consistent body fluid identifications for Items 1 through 6. The remaining participant reported consistent results for all items except for Item 1 where the individual reported inconclusive for the presence of blood based on a negative result when tested with Tetramethylbenzidine and a positive result when tested with HemaTrace®.

Sample Description

<u>Item</u>	<u>Substrate</u>	<u>Body Fluid</u>	<u>Volume</u>
1	4 Swabs: white plastic handle	Semen	100µL per swab
2	4 Swabs: pink plastic handle	Saliva	100µL per swab
3	4 Swabs: blue plastic handle	Blood and Semen	100µL per swab
4	4 Swabs: yellow plastic handle	Blood	100µL per swab
5	Red Cotton Headband	Blood and Saliva	100µL
6	Torn White Polyester Shoelace	Saliva and Semen	100µL

Completed sample sets were stored at -20°C until shipment on March 27, 2017 following receipt of predistribution results.