



Manufacturer's Information

Test No. 19-5601/2/5: Bloodstain Pattern Analysis

Each sample set contained the following images: Angle of Impact Determination Stains A - E (Item 1), Pattern Description: Single Pattern Recognition (Items 2, 3, and 4), and Pattern Description: Recognition and Description (Item 5) provided in photographic (5601), DVD (5602), or digital download (5605) form. Participants were requested to determine the angle of impact of Stains A - E (Item 1), identify the pattern for Items 2 - 4, and write a brief description of the pattern(s) for Item 5.

SAMPLE SET ASSEMBLY:

Once sample preparation was done, verification was completed, and photos produced, each photo set was placed into a pre-labeled sample pack envelope, sealed with evidence tape, and initialed with "CTS". Each DVD was checked to ensure all images were accessible. Digital download media were provided as a zipped file on the CTS portal.

VERIFICATION:

Laboratories that conducted the predistribution examination of the Angle of Impact stains reported consistent results for each of the Angle of Impact Stains A - E, and their findings were comparable to the Preparation Angles. The responses of predistribution laboratories were consistent with the expected pattern identifications for Items 2 - 4 and the pattern description for Item 5.

SAMPLE PREPARATION: All stains were produced using human whole blood.

ANGLE OF IMPACT DETERMINATION:

For each impact, blood was released from a pipette at a height of approximately thirty-six inches above the impact surface. White posterboard targets were placed on an inclined plane at the following predetermined angles from the vertical:

<u>Stain</u>	<u>Preparation Angle</u>
A	12.0°
B	26.1°
C	39.0°
D	21.0°
E	17.0°

Please note that the Preparation Angle is the value used for the test preparation phase and may not necessarily represent the final angle of the drops. It is advised to wait for the Grand Mean statistics available in the Summary and Individual Reports before evaluating performance.

The information presented here details how test samples were prepared as well as any design specifications. This information does not necessarily represent the answers that should or could be obtained from an examination of the sample(s). Final interpretation of the results should be deferred until the summary report is available.

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PATTERN DESCRIPTION:

- Item 2: Synthetic hair was dipped into blood and deposited onto the horizontal target. The hair was dragged across the substrate, then lifted away.
- Item 3: Blood was released three times from an automated pipette at an upward angle onto the vertical target.
- Item 4: A dry sponge was dipped into a shallow pool of blood. The sponge was pressed directly down onto a clean horizontal target and then lifted away.
- Item 5: A modified mousetrap was held near the lower left corner of the horizontal target and blood was deposited on its mechanism. The mousetrap was released and then removed. Three drops of blood were independently released from a dropper bottle at approximately 36 inches above the target. The drops were allowed to partially dry, and then a dry rag was moved from left to right through one of the partially dried drops.

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