Collaborative Testing Services, Inc.
FORENSIC TESTING PROGRAM

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Manufacturer's Information
Test No. 20-5601/5: 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) 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. A digital download supplemental of medium range shots for Items 2-5 was provided to all participants as a courtesy.

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". 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:

Stain	Preparation Angle
A	43.0°
B	21.1°
C	18.1°
D	14.1°
E	28.2°

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: A screwdriver was dipped into blood and slashed in a downward direction three times near the vertical target, redipping after each motion.

Item 3: A small volume of blood was deposited onto a target and allowed to partially dry. A dry piece of fabric was drawn through the blood and across the target in a left to right and downward direction.

Item 4: A dry cloth rag was placed onto the target. Blood was gently deposited adjacent to the rag and allowed to soak into the fabric.

Item 5: An automated pipette was used to deposit blood three times in an upward motion on a vertical target and allowed to move under gravity down the substrate. A dry sleeve was moved through the blood trails of the second and third depositions in a left to right and upward direction.