



## *Manufacturer's Information*

### Test No. 10-539: Fibers Analysis

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Each sample pack consisted of a section of known fabric (Item 1) and two sets of questioned fibers (Items 2 and 3). Items 1 and 2 were from the same orange fabric labeled as 100% polyester, whereas Item 3 was from an orange fabric labeled as 100% acetate. Both fabrics were purchased from a local store. Participants were requested to examine the fibers, identify the fiber type, and determine if the questioned fibers could have originated from the known fabric.

#### SAMPLE PREPARATION-

The fabric was laid out and rolled with a lint roller to remove any extraneous debris. Items 1/2 and Item 3 were prepared on different days to prevent any possibility of cross-contamination.

ITEM 3 (ELIMINATION): For the questioned acetate fibers, a 0.5 yard of fabric was first cut into 2"x2" swatches. For each item, two warp and two weft fibers were teased from the edges of one fabric swatch, then packaged into a glassine bag and pre-labeled Item 3 coin envelope.

ITEMS 1 and 2 (IDENTIFICATION): For the known fabric (Item 1) and the questioned polyester fibers (Item 2), a 2-yard section of fabric was first cut into 2" x 2" swatches. A predetermined number of full swatches were then packaged into glassine bags and pre-labeled manila envelopes (Item 1); the remaining swatches were used to prepare the questioned fibers (Item 2). For each item in this set, two warp and two weft fibers were teased from the edges of one fabric swatch, then packaged into a glassine bag and pre-labeled Item 2 coin envelope.

SAMPLE PACK ASSEMBLY: For each sample pack, an Item 1 and 2 were placed in a sample pack envelope along with an Item 3 and sealed with invisible tape. This process was repeated until all of the sample pack envelopes were prepared. Once verification was completed, the sample pack envelopes were sealed with evidence tape and initialed with "CTS".

#### VERIFICATION-

Predistribution laboratories reported Items 1 and 2 as consisting of polyester fibers and Item 3 as consisting of acetate fibers. These laboratories also concluded that Items 1 and 2 could have originated from the same source and Item 3 could not have originated from the same source as Item 1.