



# *Manufacturer's Information*

## Test No. 16-539: Fibers Analysis

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Each sample pack consisted of a known section of the victim's bath rug (Item 1) and two sets of questioned fibers (Items 2 and 3). Items 1 and 3 were from the same blue bath rug labeled as 100% nylon, whereas Item 2 was from a different blue bath rug labeled as 100% cotton. Both bath rugs were purchased from a local housewares store. Participants were requested to examine the fibers, identify the fiber type, and determine if the questioned fibers could have originated from the known bath rug.

### SAMPLE PREPARATION-

The outside of the bath rug was rolled with a lint roller to remove any extraneous debris. Item 2 and Items 1/3 were prepared at different times to prevent any possibility of cross-contamination.

ITEM 2 (ELIMINATION): For the questioned fibers (Item 2), a yarn was removed from the bath rug, approximately 15-20 fibers were teased out and packaged into a glassine bag and a pre-labeled Item 2 envelope.

ITEMS 1 AND 3 (ASSOCIATION): For the known section of bath rug (Item 1) and the questioned fibers (Item 3), 0.5" x 0.5" sections were cut from the same bath rug. A section of bath rug was packaged into a glassine bag and a pre-labeled Item 1 envelope. A yarn was removed from one section of the bath rug, approximately 15-20 fibers were teased out and packaged into a glassine bag and a pre-labeled Item 3 envelope. Items 1 and 3 were taken in close spatial proximity to one another, within 3 inches, and were kept together as an identification group and packaged as described below.

SAMPLE PACK ASSEMBLY: For each sample pack, an Item 1, 2, and 3 were placed in a sample pack envelope 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 met consensus on association and fiber type results. The following procedures were used to examine the items: stereomicroscopy, comparison microscopy, polarized light microscopy, macroscopic exam, fluorescence microscopy, IR/FTIR, microspectrophotometry, solubility tests, cross-section, melting point, and fluorescence (light box).