## **Technical Procedure for Generating Known Footwear Standards**

Version 2

Effective Date: 10/31/2013

- **1.0 Purpose** This procedure is to be used when generating known footwear standards.
- **2.0 Scope** This procedure applies to items of known footwear.
- 3.0 Definitions N/A
- 4.0 Equipment, Materials and Reagents
  - 4.1 Equipment and Materials
    - Magnetic or regular fingerprint powder
    - Magna wand or latent print brush
    - Acetate transparent footwear lifter
  - 4.2 Reagents N/A
- 5.0 Procedure
  - **5.1 Application Procedure:** 
    - **5.1.1** The known shoe is placed on the work table with the sole facing upward.
    - **5.1.2** Commercial fingerprint powder is applied in a thin layer to the entire outsole of the shoe using a Magna wand or fingerprint brush. Ensure that all areas of the outsole are covered.
    - **5.1.3** Tap the shoe lightly on the table to remove excess powder from the outsole.
    - **5.1.4** Remove the protective backing from the residue footprint lifter to expose the adhesive side. With the adhesive side facing the outsole, press one (1) end of the lifter onto the outsole of the shoe at either the extreme heel or toe. Slowly press remainder of the lifter onto the outsole in one smooth motion. Forensic Scientists may employ a soft cloth to press/rub the non-adhesive side of the lifter; pressing lightly to ensure that even contact is made with the adhesive surface and the entire outsole.
    - **5.1.5** Once the lifter has been satisfactorily pressed onto the outsole, lift one (1) edge and remove from the outsole in a slow continuous motion.
    - **5.1.6** The protective backing shall then be replaced over the powdered footwear impression.
    - **5.1.7** Label the footwear standard as provided in the Laboratory Procedure for Evidence Management.

**Note:** All standards, lifts, photographs and casts created during the examination process shall be entered into FA as an item/sub-item of evidence.

- 5.2 Standards and Controls N/A
- 5.3 Calibration N/A

- 5.4 Sampling N/A
- **5.5** Calculations N/A
- 5.6 Uncertainty of Measurement N/A
- **6.0 Limitations N/A**
- **7.0 Safety -** N/A

## 8.0 References

Bodziak, W.J. Footwear Impression Evidence. CRC Press, New York (1990).

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Bodziak, W.J. "Shoe and Tire Impression Evidence." FBI Law Enforcement Bulletin. (July 1984): 1-11.

Cassidy, M.J. Footwear Identification. Lightning Powder Company, Oregon (1995).

Drexler, S.G. "Test Impressions of Footwear Outsoles Using Biofoam." *Journal of Forensic Identification*. Vol. 44, 1: 57-70 (1994).

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Hueske, E.E. "A Superior Method for Obtaining Test Prints from Footwear and Tires." *Journal of Forensic Identification*. Vol. 41, 3: 165-167 (June 1991).

Robbins, L.M. Footprints: Collection, Analysis, and Interpretation. Thomas Books, Illinois (1985).

## 9.0 Records - N/A

## 10.0 Attachments - N/A

Revision History		
Effective Date	Version Number	Reason
09/17/2012	1	Original Document
10/31/2013	2	Added issuing authority to header