

Technical Info: Latent Print Standards Pad – LPSP200

TI_LPSP200141029

Background and Purpose

Most latent fingerprints are composed of three types of deposits. These include sebaceous (oils), apocrine (amino acids), and salts. In forensic latent processing, various chemical reagents are utilized to reveal latent prints targeting these deposit types. These reagents may include Iodine, Ninhydrin, Silver Nitrate, and others. Many of these reagents are formulated in the laboratory or purchased as a pre-mixed formulation. In either case, a standard should be used to confirm that the reagent is properly reacting to the targeted deposit before processing evidence. This validates the reagent and the process.



The Latent Print Standards Pad contains all three components in one convenient container. The pad eliminates the manual creation of enhanced exemplar prints. Exemplar prints created from a person's fingers are highly variable and may or may not contain all three types of deposits. The standard pad eliminates the variability and provides a true standard.

100 HUNTER PLACE, YOUNGSVILLE, NC 27596 USA

Ph: (919) 554-2244, (800) 356-7311 • Fax: (919) 554-2266, (800) 899-8181

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Health / Safety

- Please refer to the Safety Data Sheet (SDS) before using any chemical product. The SDS can be found at <http://www.sirchie.com/safety-data-sheets?p=1>

Specifications

- 2" (50.8 mm) circular pad with thermoplastic insert
- Contains amino acid (L-Valine), oil (oleic acid), and salt (sodium chloride)
- Weight: 0.05 lb.

Usage Instructions

The pad performs best on porous surfaces. Recommended test surfaces include white standard copy paper or white bond paper.

1. Clean the finger to be utilized prior to using the pad.
2. Press finger with light pressure on the surface of the pad.
3. Place treated finger on the test surface.
4. Repeat process 1-3 at least once.
5. Allow a few minutes for deposit to be absorbed and dry.



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6. Process the test surface according to lab protocol or the manufacturer's instructions.

Many reagents have been tested against this pad formulation. This pad is for use in testing only those reagents that react with the three deposits: sebaceous, apocrine, or salts. This pad SHOULD NOT be used to test reagents formulated to react with blood or other bodily fluids, as it will not react.

Examples of test results using the LPSP200:



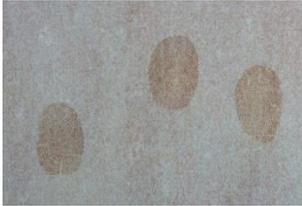
Iodine reaction with sebaceous oils



Ninhydrin reaction with amino acids

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Silver salts reaction with salt

Storage

- When not in use, the lid should be sealed. Care should be taken to make sure lid is sealed completely.
- Store at room temperature.

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