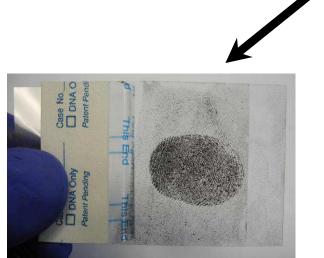
### Independent Forensics, 500 Waters Edge, Suite 210, Lombard, IL 60148, USA

1. Collect <u>all</u> the Evidence

## "Fingerprint & DNA" lift card

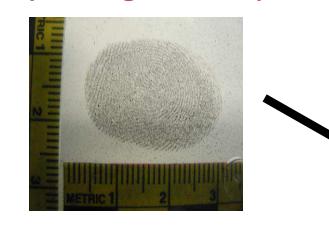


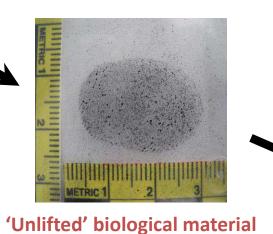
Lift card with hinged transparent liner. Easy opening tab on short side of card. Liner protects lifted print and allow easy access to biological material



'Fingerprint' is lifted onto SIRCHIE/IFI lift card with transparent liner.

#### **Enhanced latent** (starting material)





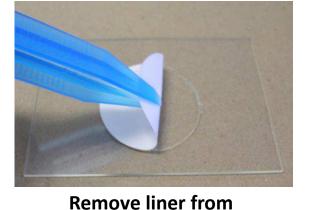
left behind on evidence.



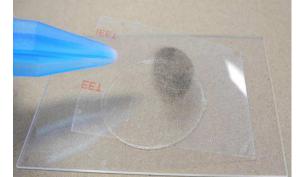
Unlifted' biological material collected on swab. **Retained for later extraction** 

## 2. Extract and Purifiy DNA from Adhesive Evidence (lift card, duct tape, sticky tape, etc.,)

A] Immobilize lift card on bottom of lysis chamber



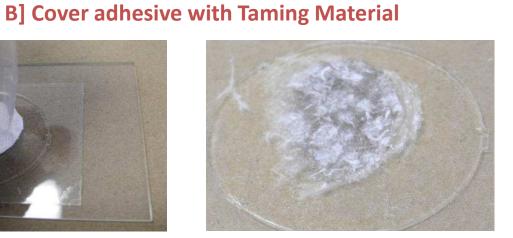
immobilizing circle



Place lift card on circle, adhesive layer facing up

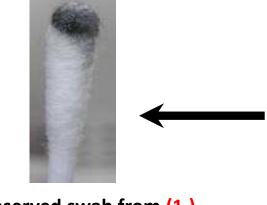


**Taming material being** applied to adhesive



Adhesive layer is now hydrophilic

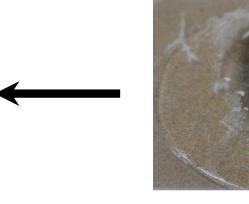
D] Combine all the biological fingerprint evidence



Use reserved swab from (1.), collect extract from Lysis Chamber

**Assembled chamber** is incubated at 56°C for 1 hour.

Add O-ring, cover and binder clips to form Lysis Chamber



**C] Extract DNA from Adhesive Layer** 

Add lysis buffer to immobilized, covered fingerprint

E] Combined biological fingerprint evidence is extracted



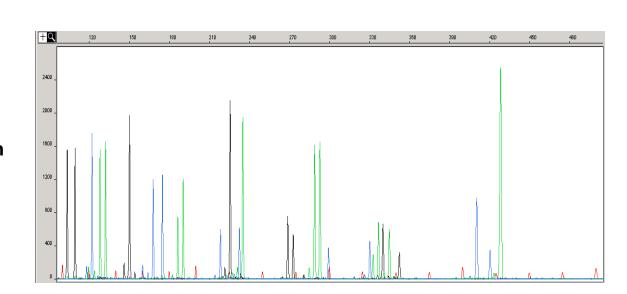
**Combined lysate and No DNA Left Behind** material is recovered via spin-basket, and extracted at 56°C for 1 hour

F] DNA Purification on Xs (subtractive) Column

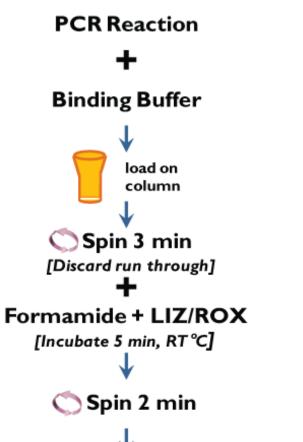
Note retained fingerprint powder on column, purified lysates

**Can concentrate lysate** (Centricon or SpeedVac), PCR amplify using kit of your choice.

GeneScan electropherogram of **PowerPlex 16 PCR reaction** after concentration of purified lysate.



# 3. Analyze ALL of your data; post PCR purification & concentration (AmpliconRx™)



Load Elution on CE

**PCR** samples that show partial profile are subjected to post-PCR purification and concentration using *AmpliconRx*™ kit

**Up to 15X more CE signal** 

