

SigNature DNA is a unique and powerful means to authenticate originality. SigNature DNA markers provide the ultimate in forensic protection for a wide variety of industries, with the ability to authenticate original equipment, replacement components, documents, textiles and apparel, and a host of consumer products.



*Handheld devices can screen for the presence of SigNature DNA markers.*

With essentially infinite variability, individualized custom DNA sequences can be created and embedded into a range of host carriers such as ink, varnish, thread, laminates and metal coatings. Highly secure, robust, durable and cost effective, SigNature DNA markers can be used as a forensic complement to barcodes, watermarks, holograms, RFIDs, microdots, and many other security applications.

### Unique SigNature DNA Markers:

- Cannot be copied
- Covert and forensic
- Library of markers can be individually coded to show specific origin
- Custom DNA markers can be created for specific vendors/suppliers or raw materials
- Compatible with a wide range of products; can be placed anywhere in or on the product
- Adaptable. Will not require major changes to the manufacturing process or supply chain

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## PUTTING DNA TO WORK

SigNature DNA uses the DNA from plants to mark and authenticate products in a unique manner that essentially cannot be copied. We create customized, unique SigNature DNA markers that are applied into an ink, or directly on the package or product itself. "Green" and safe, SigNature DNA is compatible with many different types and forms of ink, varnish, adhesives and textile treatments. It works with a range of flexographic, offset and screen printing processes. For more information, please contact us at [sales@adnas.com](mailto:sales@adnas.com).

### HERE'S HOW IT WORKS:

#### SigNature DNA Marker Application

  
SigNature DNA marker  
Unique Encrypted Code

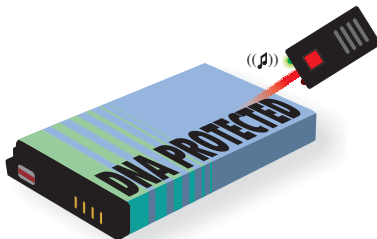


Ink/Label  
with DNA embedded



Package and Product Contain DNA Ink

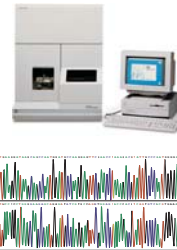
#### DNA Authentication



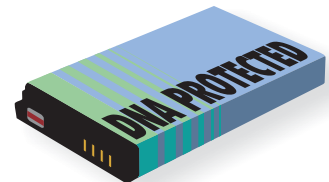
Level 1: Instant Screen for  
presence of SigNature DNA



Level 2: PCR based  
Portable DNA analyzer  
5-10 minute DNA analysis



Level 3: CE DNA Sequencer  
1 to 3 hour full DNA analysis



Final Outcome:  
Genuine Product

## AUTHENTICATION IS THE KEY

To ensure that a product is authentic, we recommend regular audits and authentication of products throughout the logistic and supply chain. We work with each client to tailor an Authentication Program that meets their security needs.

## ABOUT APPLIED DNA SCIENCES

Applied DNA Sciences sells patented DNA security solutions to protect products, brands and IP from counterfeiting and diversion. SigNature DNA is a botanical mark used to authenticate products in a unique manner that essentially cannot be copied. APDN also provides BioMaterial GenoTyping™ by detecting genomic DNA in natural materials to authenticate finished products. Both technologies protect brands and products in a wide range of industries and provide a forensic chain of evidence that can be used to prosecute perpetrators.

**To learn more, go to [www.adnas.com](http://www.adnas.com), or call +1-631-444-6370.**