

Applied DNA at a Glance

- Industry: Biotechnology
- NASDAQ: APDN
- Headquartered in Stony Brook, NY, Central Testing Laboratory in Ahmedabad, India
- Over 30,000 ft² of manufacturing and laboratory facilities
- ISO 17025:2005 Accreditation / ISO 9001:2015 Certification
- Over 60 employees
- Patents: 75 issued and over 53 applications pending
- Core intellectual property – Molecular tags and bulk DNA production via PCR
 - Design and manufacture molecular tags to indicate authenticity and claims, to bond to natural and synthetic materials, to embed into industrial raw materials, and to adhere to most surfaces.
 - Extract and authenticate molecular tags to identify authenticity, origin, examine provenance, and other claims.
- Core vertical industries: Textiles and Apparel, Cannabis, Printing and Packaging, Pharmaceuticals, Personal Care, Military and Government, Electronics, Industrial Components, Security and Consumer Asset Marking
- LineaRx, a wholly-owned subsidiary of Applied DNA, utilizes our position as the world's largest PCR-based mass producer of DNA for use in biotherapeutics, specifically gene and cellular therapies as well as vaccines

Executive Officers

James A. Hayward, Ph.D., Sc.D., Chairman of the Board, President and Chief Executive Officer

Beth Jantzen, CPA, Chief Financial Officer

Judy Murrah, MBA, Chief Information Officer

Core Technology

Using biotechnology as a forensic foundation, Applied DNA's unique portfolio of solutions addresses industry issues concerning compromised supply chains, inaccurate product claims, protection of intellectual property and physical items.

What we offer...

- *Traceability* in global supply chains
- *Authenticity* to protect products and brands
- *Evidence* to link criminal to crime, resolve claims
- *Scalability* with contract DNA production services

Brand Promise

Applied DNA makes life real and safe by providing innovative, molecular-based technology solutions and services that can help protect products, brands, entire supply chains, and intellectual property of companies, governments and consumers from theft, counterfeiting, fraud and diversion.

Product Line

CertainT® — Secure and proven, the CertainT platform certifies to customers that the product they are buying is authentic.

SigNature® DNA — Custom molecular signatures that can be embedded into a wide range of host carriers.

SigNature® T — A robust, forensic identity tag for textiles that remains present from fiber stage through finished goods.

fiberTyping® — A patented DNA test that can verify original Pima ELS and Upland cotton content present in cotton products.

DNAnet® — A forensic tagging system that can link criminals to crimes.

Beacon® — Covert optical identifier providing secure real-time validation inspection capabilities.

SigNify® — Authentication platform, portable device and reagents to read the unique signature tags either in our Stony Brook lab or in the field.

digitalDNA® — Cloud-based, forensic chain of custody portal platform.

DNA Transfer Systems — Developed for high-volume DNA tagging applications with a need for monitoring and control.

Applications

Textiles and Apparel: Providing unique technology solutions to assure traceability in textile products from source to shop. SigNature T is a molecular tag applied to a textile during the manufacturing process and then is tested and tracked throughout the supply chain. It is currently being used on cotton, synthetics, recycled polyethylene terephthalate (rPET), cellulosic fibers (rayon) and leather.

Cannabis: CertainT's SigNature® molecular tag can be applied to plants, edibles, and other cannabis by-products, making it possible to establish origin, with forensic certainty, at any point in the supply chain.

Cash and Valuables in Transit: SigNature DNA tags incorporated into cash degradation inks used in the cash-in-transit industry throughout Europe have facilitated the conviction of more than 100 criminals in the UK, with aggregate prison sentences of almost 500 years.

Car Part Marking: SigNature DNA is being used to protect critical parts in new BMWs imported into Sweden.

Printing and Packaging: Our integrated platform of forensic molecular tags along with optical and digital technologies offers a high level of security and flexibility in a cost-effective and easy-to-use format. Compatible with varnish, ink or toner used in labels and packaging without impacting their quality.

Biopharma: Producing high-quality, large-scale DNA from specific sequences with the patented Triathlon PCR production system, which is well suited to efficiently meet biopharma and diagnostic needs.

Pharma: SigNature DNA has been introduced into pharmaceutical-grade and packaging inks suitable for tablet and packaging. SigNature DNA is well suited as a PCID (Physico-Chemical Identifier); can mark bulk API (Active Pharmaceutical Ingredients), coatings and inks. Provides a custom, layered security foundation that promotes patient safety and brand confidence.

Personal Care: SigNature DNA is safe, approved for cosmetic use and can be used to tag and trace cosmetic grade raw materials and finished products.

Food and Beverages: SigNature DNA helps ensure transparent identification and tracking of branded products, helping to maintain supply chain integrity and security in the battle against counterfeit foods and beverages.

Microcircuits and Other Industrial Products: Providing turnkey solutions for the Defense Logistics Agency (DLA) trusted supply chain partners and contractors. With minimal impact to form, fit or function, SigNature DNA can be applied onto or embedded into a wide range of industrial products and parts. Over 850,000 microcircuits have been tagged to ensure authenticity.