

Same Performance.

Smarter Future.

Certified Sustainability.

# From Everyday Use to Environmentally Conscious Disposal

Plastic cotton bud sticks are small — but their impact can last for generations. To help address this issue, we have developed a biodegradable plastic stick designed for single-use hygiene products that meets international biodegradation standards.

This product offers the same durability, safety, and appearance as conventional plastic sticks, but with a crucial difference:

It is engineered to biodegrade under specific landfill conditions, minimizing long-term plastic pollution.

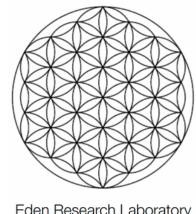
### Tested to International Standards

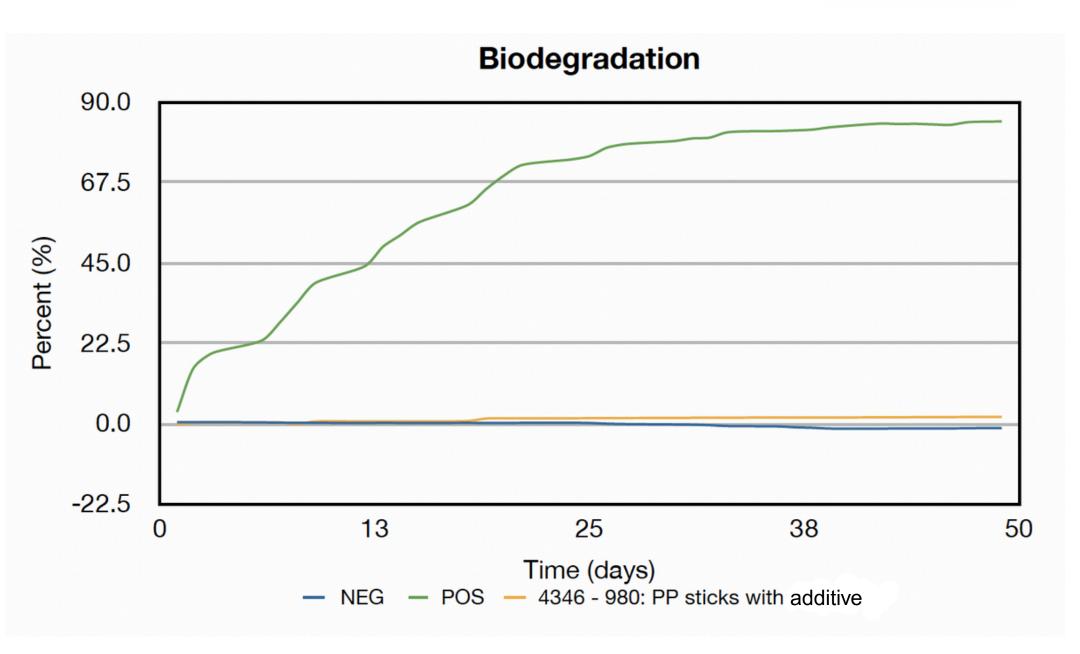
The biodegradation behavior of our plastic sticks has been evaluated using:

- ASTM D5511: Standard Test Method for Anaerobic Biodegradation of Plastic Materials under High-Solids Anaerobic-Digestion Conditions (simulating active landfills)
- Conforms with principles of Circular Material Optimization (CMO) and extended product responsibility practices

Independent laboratory results show:

- Continued breakdown under anaerobic microbial activity
- No degradation in untreated control samples





## Safe and Stable During Use

This product is formulated to maintain its full physical integrity during:

- Manufacturing and storage
- Use by consumers
- Transportation and shelf-life

Biodegradation is **not triggered prematurely** — it begins only
after disposal into suitable
biological environments.

#### **Built for Circular Thinking:**

This biodegradable stick aligns with modern sustainability frameworks:

- Supports waste reduction goals
- Minimizes environmental footprint
- Compatible with circular design principles

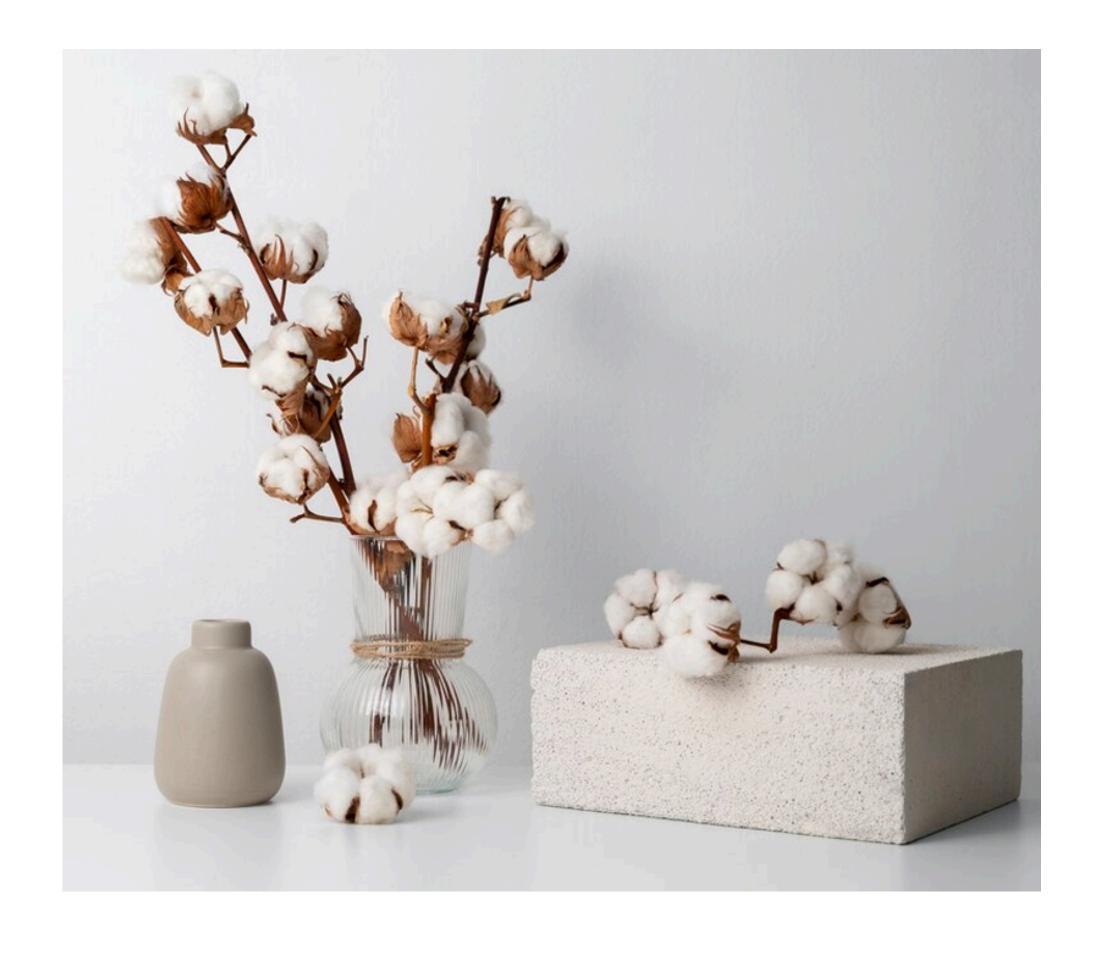
Whether your company is focused on plastic reduction, compliance with green product standards, or seeking alternatives to hundred-years degradable, this solution is designed for you.

#### **Key Features:**

- Performs identically to standard plastic during use
- Designed for post-use
   biodegradation in landfills
- Tested and verified under
   ASTM D5511
- Suitable for high-volume, automated cotton bud production
- Helps meet sustainability certifications and regulatory expectations

# Let's Redesign Single-Use for the Future

By adopting certified biodegradable materials in everyday products, we take real action toward a cleaner planet. Our cotton bud sticks represent an important step forward — science-based, performance-proven, and responsibly designed.



Small change. Big difference. Scientifically verified...