Verifying Cotton Provenance
1. Cotton naturally absorbs different levels of chemical elements and isotopes that exist in its direct environment. This gives cotton its unique origin fingerprint.

2. Samples of global cotton sources are collected and analysed to identify the origin fingerprint.

3. The fingerprint of origin is stored in the Oritain database.

4. Samples are collected across the supply chain and market for testing.

5. Products are tested against the fingerprints that are stored in the database.

6. Results are reported to the customer. Certification and marketing opportunities can be leveraged for consumers.
Database
Origin Fingerprint - Global

- Oritain uses statistics to interpret 1000’s of pieces of sample/analyte data into something that can be comprehended

- A tested sample of **genuine origin** will lie in the area of space occupied within its chemical fingerprint

- **Non-genuine** tested samples or blends reside in areas of space outside of its chemical fingerprint
*Origin are continually adding to this database at every harvest.*
Origin Fingerprint – Auscott Farms (BCI)
Testing at multiple points across a supply chain where there is ‘risk’

By doing multiple tests several times at these various stages (including the laydown) the likelihood of identifying any issues as they happen is very high
Advantages of the Oritain Approach

1. **Commercially proven** across a number of different industries
   - Oritain has a proud history of delivering for customers

2. It is a ‘product test’
   - Measures what exists **naturally** in the product
   - Not a ‘tag and trace’ system

3. Manufacturing friendly
   - No changes to manufacturing are required
   - No variable costs per pound to apply a ‘tracer’
   - **Flexible** and is not reliant on buy-in from one supply chain

4. Has the capability to **identify blending**
   - Not a ‘presence / absence’ test
ORITAIN™
PROVING ORIGIN, PROTECTING REPUTATIONS

UNITED KINGDOM  +44 (0) 20 3176 9007
Suite 311 Pill Box Studios, 115 Coventry Road
London E26GH, United Kingdom

AUSTRALIA  +61 (0) 2 9931 6805
Northpoint Tower, Level 40, 100 Miller Street
North Sydney NSW 2060, Australia

NEW ZEALAND  +64 (0) 3 489 0086
Block E, Maungatua Building
Invermay Agricultural Centre
Private Bag 50034, Mosgiel 9053, NZ

Rupert Hodges
Ben Tomkins

www.oritain.com
info@oritain.com

@oritain

Oritain