

# OEKO-TEX® STANDARD 100

## Certification of Organic Cotton

### Testing of organic cotton products for genetically modified organisms (GMO)

OEKO-TEX® STANDARD 100 includes a GMO check for cotton and cotton products. The result of the test is a yes/no declaration that confirms whether or not the material sample contains genetically modified cotton.

### Product Description

The GMO test in OEKO-TEX® STANDARD 100 is mandatory if you want the organic cotton to be stated in the certificate text on the STANDARD 100 certificate. Organic cotton must be certified separately from conventional cotton. The GMO test is optional for all other certifications in accordance with OEKO-TEX® STANDARD 100.

The test is performed in two steps:

- The sample is shredded, and the cotton fibers are mechanically and enzymatically degraded. The genetic material (DNA) is isolated from the fiber and purified in a multi-stage process.
- If the DNA contains specific marker genes, there is a genetic modification. These genes can be identified on a molecular biological level. Control reactions are used to prove that the cotton DNA is unmodified and exclude false-negative results.

### Your Benefits

- You receive a qualitative yes/no statement as to whether your cotton article contains genetically modified cotton.
- You have the advantage that the test can be carried out from the raw cotton to the finished article.
- You benefit from the fact that the molecular biological detection systems have been optimized specifically for cotton products.