

# Digital Anti-Counterfeiting Certification

## Triple-Level Digital and Physical Verification Certification System for the Global Protection of Products, Supply Chains and Property

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AB Originis Suisse AG

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### Ab Originis — From the Origin, Certainty

**Ab Originis**, from the Latin “from the origin” or “from the very beginning”, is a term used in legal and literary contexts to indicate something that possesses validity, integrity or value from the very moment of its creation.

We have applied this meaning to the ability to **certify any object as authentic from the moment of its creation**. The evolution of this concept enables the creation of both digital and physical certification services, designed to protect the owner of the good and those who purchase or use the service.

**Our mission:** to eliminate any possibility of counterfeiting through the principle of triple verification — the generation of a digitized and authenticated file, and its confirmation through a physical anti-counterfeiting process.

### What ABoriginis Guarantees

The Ab Originis platform enables the **traceability of production chains** and prevents counterfeiting of any product: from food to precious goods, from pharmaceutical products to clothing, and even intangible assets such as vocal recordings, video, intellectual concepts and much more.

Technological innovation is applied to the management of our daily lives, creating a revolution that provides absolute certainty regarding the **UNIQUENESS** and **VALIDITY** of what is being certified.

**The Certificate of Origin (COT)** establishes the global uniqueness of an object; if replicated for counterfeiting purposes, it is identifiable as a forgery because it has already been indexed and registered in the name of the legitimate owner.

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# The Triple Verification Certification System

## Four Distinct Processes Generate a Unique and Inviolable Certification Product

The ABoriginis certification service is based on the principle of **triple verification** through distinct processes that, combined, generate a unique and inviolable certification product.

### 1. DDO — Digital Declaration of Origin

Drafting of a document that reports the descriptive elements of the good or service, identifying its nature, characteristics, producer and all supply chain passages. It includes commercial and advertising information and the attestation of authenticity of provenance.

### 2. COT — Certificate of Origin Token (DPP)

Digitization of the DDO and notarization on the Blockchain. The document assumes immutable legal value and is verifiable by anyone without specialized software. The DPP (Digital Product Passport) is generated.

### 3. NFT Digitization

A decisive step: notarization followed by digitization into NFT tokens prevents any type of digital alteration. A simple NFT could be generated by anyone, but the preliminary notarization phase guarantees its authenticity.

### 4. Physical Verification — Holographic Mark

Pairing of the COT with a web app accessible via QR scan on a holographic mark with protected codes. The combination of digital and physical verification makes any falsification impossible.

**The combination of these processes generates a unique certification product that enables multiple applications and attestations capable of unequivocally certifying the originality of the product.**

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## The ABoriginis Holographic Mark

The physical verification process is completely separate from the preceding digital processes. The use of a physical medium allows verification that the protection on the mark has not been altered and, simultaneously, that any falsification does not allow the issuance of the COT.

## How Consumer Verification Works

| Phase           | Action                                                                      |
|-----------------|-----------------------------------------------------------------------------|
| 1. Scan         | Scan the QR code on the holographic mark with your smartphone camera        |
| 2. Web App      | A simple web app opens, no registration required                            |
| 3. Codes        | Remove the protective coating and enter the hidden codes                    |
| 4. Verification | If the codes match, the app displays the COT attesting the product's origin |

The codes beneath the protection are assigned to each mark in a **non-sequential** manner, making prediction or replication of the codes themselves impossible.

The QR code serves only as a link to the verification web app. Certification is confirmed only by the coincidence between digital verification and physical verification.

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## NFC Technology and Blockchain Traceability

For industrial and commercial applications, ABoriginis provides the integration of **NFC TAGs** that accelerate the verification procedure and the connection to the blockchain. Instead of using the smartphone camera, a specific NFC reading application speeds up verification and management processes.

### Advantages of Integrated NFC Technology

The use of NFC technology combined with NFTs is based on the creation of an NFC label associated with the NFT, containing information such as provenance, history and authenticity of the object. By bringing a smartphone close to the label, the information saved on the blockchain is transmitted and verified instantaneously.

The NFC verification process provides owners with greater security, as it is possible to trace and verify the authenticity of any product in a very precise and reliable way. Information is accessible at any time, making the verification process efficient and transparent.

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# Supply Chain Certification and Traceability

## Documenting the History of Every Product, Guaranteeing Traceability to the Place of Origin

ABoriginis certification applies to the entire production chain or to specific sections, across a wide range of sectors. The objective is to help companies document the history of a product, ensuring that it is always possible to trace back to its place of origin at any time.

## The Corporate Certification Process

| Phase         | Description                                                          |
|---------------|----------------------------------------------------------------------|
| SAQ           | Self Assessment Questionnaire for the company and its main suppliers |
| Audit         | Audit programme for verification and review of business phases       |
| Certification | Upon approval, issuance of AB Originis Certification                 |
| Maintenance   | Annual maintenance checks and continuous verification                |

The standard is based on the capacity of the **Lead Partner** organization to establish rules that guarantee, at every stage of the supply chain, all elements of quality, safety and traceability considered fundamental for the consumer.

A third-party independent body verifies the entire supply chain.

## Application Sectors

The ABoriginis certification system is applicable to a wide range of industrial and commercial sectors, wherever it is necessary to guarantee authenticity, traceability and protection from counterfeiting.

| Sector           | Application                                                                            |
|------------------|----------------------------------------------------------------------------------------|
| Food & Beverage  | Supply chain traceability (UNI EN ISO 22005), extra virgin olive oil, dairy, preserves |
| Pharmaceutical   | Medicine authenticity, batch traceability, anti-counterfeiting                         |
| Fashion & Luxury | Originality certification, brand protection, anti-replica                              |
| Electronics      | Certified components, quality specifications, verified supply chain                    |
| Precious Goods   | Gemstone certification, watches, artworks, collections                                 |
| Documentary      | Original contracts, legal documents, intellectual property                             |

## The Benefits of AOriginis Certification

AOriginis certification offers a comprehensive set of competitive advantages for companies wishing to protect their products and strengthen their market position.

| Benefit           | Description                                                                      |
|-------------------|----------------------------------------------------------------------------------|
| Global Protection | Protection of the brand and product on an international scale                    |
| Organization      | Better corporate organization and careful supplier management                    |
| Credibility       | Greater credibility, improved external image and cost reduction                  |
| Security          | Elimination of the risk of fraud and product counterfeiting                      |
| Expansion         | Positive reception in international markets and ease of export                   |
| Transparency      | Complete and fully transparent procedure, enhancing the product for the consumer |

With AOriginis we achieve the maximum deterrent against counterfeiting of any good, production chain, commercial documentation, goods in transit and much more.

# The Tokenized Digital Certificate

The final result of the ABoriginis certification process is the issuance of a **Tokenized Digital Certificate** — a unique, immutable and globally verifiable document that attests to the authenticity and origin of the certified product.

- Final result: issuance of the **Tokenized Digital Certificate (COT)**
  - Digitized notarial authentication produces **counterfeit-proof** certifications
  - **Immediately verifiable** by anyone without specialized software or tools
  - With ABoriginis, the **maximum deterrent** against counterfeiting of any good is achieved
  - **ABoriginis®** — Registered trademark at EUIPO (European Union Intellectual Property Office)
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## Contact Us to Protect Your Business from Counterfeiting

### Protect Your Product. Certify Your Supply Chain.

Contact us to discover how ABoriginis can protect your business from counterfeiting and enhance your production chain.

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