



**Manufacturer of
Bioactive Ingredients
from Natural Origin**

About us

Deretil Nature started its operations in 2013, as a result of the decision taken by the Group Deretil to increase the company's business commitment towards cosmetics and functional foods by establishing a dedicated enterprise to serve these markets.

At present, Deretil Nature provides the cosmetic, food and feed markets with their products that have been developed to the highest quality and competitiveness standards.

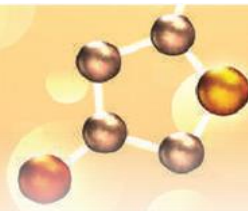
The best choice

- ❖ One of the largest manufacturers in the world with great experience in specialized products
- ❖ Research capacity and open-minded collaboration towards customers
- ❖ Customer service: Flexible, efficient and fast response to market changes
- ❖ Commitment to Quality and Reliability, Good Manufacturing Practices, Quality Control and Quality Assurance
- ❖ Wide commercial and logistics experience for a far-reaching service capacity
- ❖ Product and service qualities are a must in our management priorities
- ❖ Implementation of e-business with customers and suppliers
- ❖ Commitment to economic and social growth
- ❖ Responsible Care Commitment
- ❖ Sustainability practices in place
- ❖ Contribution to local circular economy: Use of olive oil by-products as raw materials

Deretil Group

The creation of the Spanish group of companies arose from the expansion that Deretil began, by the end of 2008, to lead its industrial potential towards new products and markets. Deretil Agronutritional, Deretil Nature and Deretil Vitatech came up of this diversification strategy.





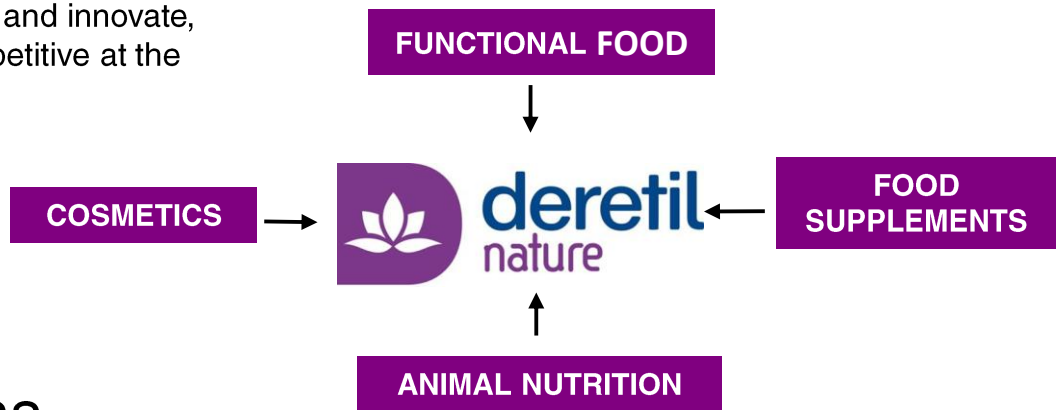
Global Presence

Deretil's products cover the main international markets.



Markets

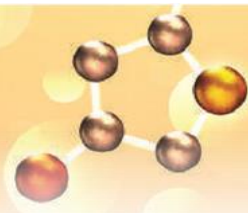
Our products and technologies enable us to diversify and innovate, while remaining competitive at the following markets:



Applications

FOOD	COSMETIC	FEED
<ul style="list-style-type: none"> Food and beverage preservatives Functional foods Food supplements Functional oils Anti-aging products Diabetes type II, metabolic syndrome Cardiovascular health protection Neurodegenerative diseases protection Athletes recovery products Anti-inflammatory use Obesity and weight reduction Nutraceuticals Nutracosmetics Antioxidant use Diseases prevention caused by oxidative damage Cancer antimicrobial protection 	<ul style="list-style-type: none"> Anti-aging; anti-oxidant Preventive and repair effect on skin diseases caused by oxidative damage Skin and hair cell regeneration Prevention / removal of skin blemishes Prevent and reduce wrinkles Skin care, calming and analgesic effect Anti-inflammatory effect Improvement of psoriasis, acne treatments Dandruff products Antimicrobial effect Preservatives from natural origin Sun protection Wounds and burn repair Sunburn treatment Skin cancer protection 	<ul style="list-style-type: none"> Functional feeding Preservatives Antioxidants Infection preventive products Enhancers increasing yield obtained per kg/feed Higher quality of final products Pest and diseases control





Circular Economy

Use of olive by-products



Every year an important amount of unused and underutilized resources from the food industry are eliminated by waste management or turned into animal feeding, fertilizers, biomass or silage.



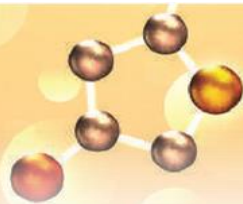
From our commitment to the environment and sustainable development, at Deretil Nature, we develop and offer our customers currently various innovative technologies to enhance the beneficial use of these agro-industrial by-products. Through the implementation of these technologies, they can be converted into products with high added value and promising applications in different areas such as cosmetics, functional food, animal feeding or pharmacy.

In this sense, there are numerous and beneficial bioactive compounds that can be extracted from olive by-products. The market of these compounds has actually an important potential growth and its commercialization is increasing quickly.



Based on this, at Deretil Nature, we take certain by-products from the manufacture of olive oil, as raw material for the development of our NaturOlive extracts that comprises **healthful ingredients** such as Hydroxytyrosol, Oleuropein, Maslinic acid or Oleanolic acid.





Olive tree polyphenols



NaturOlive products are natural origin extracts standardized on bioactive principles of the olive tree, like **polyphenols and triterpenes**. They are extracted from the best raw materials, using only top quality olive leaves and fruits from olive trees of Spanish origin.

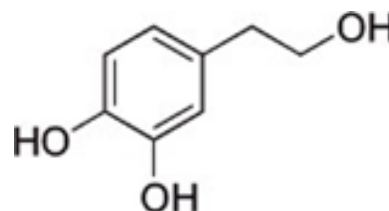
Hydroxytyrosol and Oleuropein, for instance, are **polyphenols** found in olive tree leaves and fruits.



NaturOlive HT is a natural extract from olive tree leaves or olive fruits, standardized between 1,5 % and 20 % of Hydroxytyrosol, depending on the grade and quantified by HPLC. It is available in aqueous solution and powder format. The process developed by Deretil Nature uses only water for the extraction and purification.

Appearance: brown-coloured water-soluble powder.

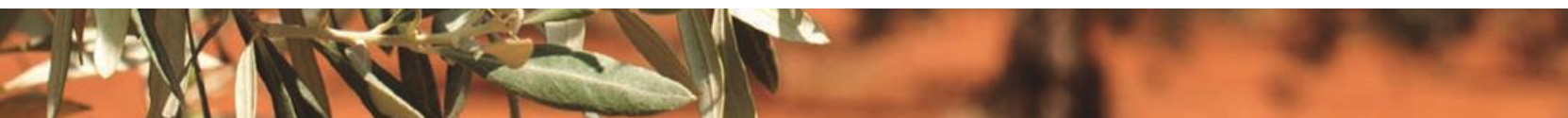
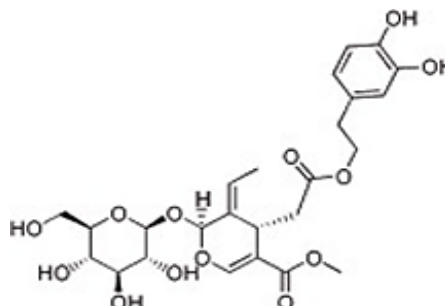
Hydroxytyrosol

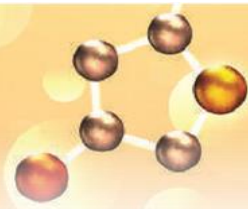


NaturOlive OE is an olive leaf extract with a high purity of Oleuropein. It is available in two powder concentrations: 12 % extracted and purified only with water and 35 % extracted with water and purified with ethanol, quantified by HPLC and Deretil Nature's technology.

Appearance: brown-coloured water-soluble powder.

Oleuropein





Products

Olive tree triterpenes



Our NaturOlive product range holds much of the main healthful and beneficial properties that science gives to “extra virgin olive oil and olives,” which we have designed to serve the nutraceutical and cosmetic markets.

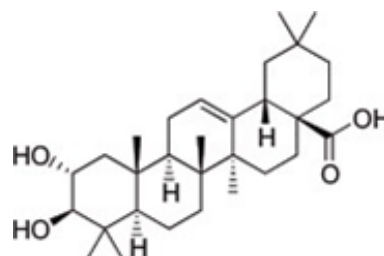
Maslinic acid and Oleanolic acid are pentacyclic triterpenes found in olive tree leaves and fruits. Both are important candidates in the search for alternative therapies of chronic diseases.



NaturOlive MA is an extract obtained from the olive fruit with a high content in triterpenes. It is a powder ingredient, standardized from 30-75 % purity on triterpenes and quantified by HPLC, where minimum 30-60 % belong to maslinic acid and 5-15 % to oleanolic acid.

Appearance: white or almost white powder.

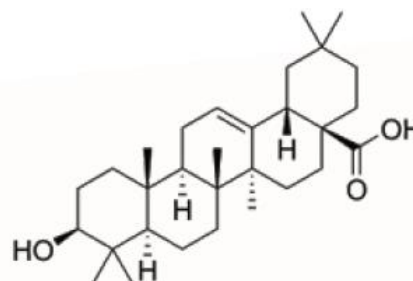
Maslinic acid

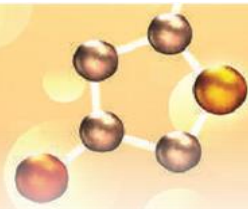


NaturOlive OA is an olive leaf extract with a high content in triterpenes. It is a powder ingredient, standardized from 40-50 % purity on triterpenes and quantified by HPLC, where minimum 40-50 % belong to oleanolic acid and 20-30 % to maslinic acid.

Appearance: white or almost white powder.

Oleanolic acid



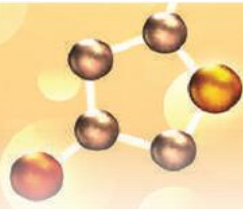


Products

Main functions and mechanism of **naturOlive**

Nutraceuticals	NaturOlive HT Hydroxytyrosol	NaturOlive OE Oleuropein	NaturOlive MA Maslinic acid	NaturOlive OA Oleanolic acid
Cardiovascular health, hypertension protection	✓	✓	✓	✓
Reduction of LDL oxidation, atherosclerosis prevention	✓			
Anti-inflammatory effect	✓	✓	✓	✓
Prevention of neuro- degenerative diseases	✓			
Antimicrobial properties	✓	✓		
Treatment of osteoarthritis / chronic joint pain			✓	
Control/prevention of metabolic syndrome, Diabetes type II			✓	✓
Weight control			✓	✓
Prevent/control benign prostatic hyperplasia				✓
Cosmetics	NaturOlive HT Hydroxytyrosol	NaturOlive OE Oleuropein	NaturOlive MA Maslinic acid	NaturOlive OA Oleanolic acid
Antioxidant effect	✓	✓	✓	
Anti-aging effect	✓	✓	✓	
Redensifying effect			✓	
Sun protection	✓	✓	✓	
Treatment of herpes zoster		✓		
Depigmenting, prevent skin blemishes	✓		✓	
Anti-wrinkle skin care			✓	
Treatment of psoriasis/acne			✓	✓
Anti-cellulite effect			✓	✓
Hair loss prevention				✓





Products

Grape seed polyphenols



NaturGrape SE is a grape seed extract with a high concentration in polyphenols. It is standardized and quantified by HPLC, at 30 % of total polyphenols, **like flavonoids and phenolic acids.** Its very complete profile of polyphenols contains antioxidants of different nature that given their synergistic effects contribute with healthful benefits. We have carefully developed the balance between these different compounds to provide NaturGrape SE with important health effects that are comparable to a moderate and regular wine consumption.



NaturGrape is a grape seed extract - *Vitis vinifera*

Appearance: brown-coloured powder, water soluble, easy handling and incorporation into food or cosmetic product formulations.

30 % of polyphenols (phenolic acids, catechins, proanthocyanidins and epicatechins).

NaturGrape SE is exclusively extracted from organic grape seeds.

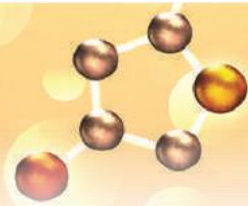
NaturGrape SE has shown a remarkable capacity to inhibit oxidative damage caused by free radicals: 10.0 $\mu\text{mol TE/mg}$ (ORAC testing method).

Steviol Glycosides sweetener



NaturEsvia is a purified extract of *Stevia rebaudiana*, standardized at 95 % of Steviol Glycosides with more than 75 % between Stevioside and Rebaudioside A. NaturEsvia is developed, manufactured and marketed by Deretil Nature and classified as additive E-960.

It is exclusively extracted from *Stevia rebaudiana* leaves of Spanish origin and organic farming. Our manufacturing process complies with all requirements of quality and good manufacturing practices for its classification as additive sweetener E-960, according to the UE Regulation Nr. 2016/1814. **Appearance:** Solid white or almost white.



Products

Branded applications



We, at Deretil Nature, provide tailor-made services to our clients for the right incorporation and dosing of all our ingredients into their final products.



NaturOlive Complex is designed to provide the main beneficial compounds of extra virgin olive oil without taking extra fat and calories. A single capsule of NaturOlive Complex comprises the same healthy nutrients than a liter of extra virgin olive oil. **It is made up of Hydroxytyrosol – Oleuropein – Maslinic acid – Oleanolic acid.**

NaturOlive Oil is extra virgin olive oil enriched with a high percentage of **Hydroxytyrosol and Maslinic acid.** It's been designed for cosmetic use or as food supplement.

Both applications hold the following healthful benefits:

- ❖ Protection against oxidative damage / Cardiovascular and neurodegenerative protection
- ❖ Improvement of metabolic syndrome / Anti-inflammatory effect
- ❖ Anti-aging and antiwrinkle effects / UV and anti-dark spots protection



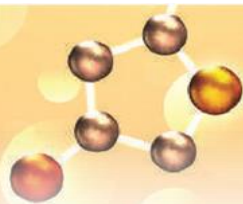
OsteOlive is a food supplement based on Maslinic acid (UE registration NUT/PL/AS Nr. PL 3350/4). A capsule/day of OsteOlive provides 50 mg of MA.

Maslinic acid is useful as a new preventive and therapeutic food ingredient for arthritic diseases.

OlivePet is an innovative line of healthy products specially designed for the development of functional feeding and feed supplement **aimed at the pet's well-being.** **OlivePet Antiox: Olive leaf extract standardized to 20 % of Hydroxytyrosol.** **OlivePet Joint care: Olive fruit extract standardized to 60 % of Maslinic acid.**

Both products are available in solid format.





Customer services

We, at Deretil Nature, in coordination with Deretil and its R+D Department offer our clients a wide range of research and development services, bringing state-of-the-art technology for design, development and validation of products, processes or innovative technologies. We provide customized research and development processes aimed to meet the needs of each client in a multidisciplinary and comprehensive way w.r.t. agro-food, cosmetics, nutraceuticals, pharmaceuticals and agricultural markets.

Among the principal services, we highlight the following project types:

- Scaling and industrialization of our customer's new developments and products
- Design and development of new products with specific composition and functionality, aimed to meet the needs of specific clients and other general market requirements
- Product and process improvement at the request of our clients

We specifically provide solutions and development services taking into account our main areas of knowledge, such as:

- Biotechnology
- Organic Chemistry
- Chemical Engineering and process scaling
- Analytical Chemistry
- Biomedicine and functional validation

Functional validation

In order to certify and underwrite the before-mentioned applications and benefits, we at Deretil evaluate the manufacturing processes, the effectiveness, safety and reliability of our products by using advanced functional *in vitro* and *in vivo* validation tests. Thus we obtain the optimized formulation of our products always looking to offer the best quality in both, composition and functionality. We count on a technology platform of the latest generation, which comprises a series of *in vitro* and *in vivo* screening trials.

Our platform allows us to obtain quick results of important scientific and quality values, in the following lines of work:

- Discovery of new healthful natural active ingredients
- Development of new ingredients or additives for specific functionality
- Design, development and validation of functional products
- Search for natural source of bioactive or functional extracts
- Use of by-products from the food industry

Technology platform



Quality

We currently take as a basis the international management standards ISO 14000:2015, ISO 9001:2015, the ICH Q7 with regard to the active ingredient amoxicillin trihydrate and ISO 22716:2008 Cosmetic Current Good Manufacturing Practices regarding Allantoin. All these certificates remain at the present in force.

Within the Group Deretil and for the active ingredient amoxicillin trihydrate API, we also count on the certificate of compliance for current Good Manufacturing Standards from the Spanish Agency of Medicines and Health Products and on the U.S. FDA Approval, w.r.t. the fulfillment of regulatory cGMP.



R&D

We, at Deretil Nature, are strongly committed to innovation, through the improvement of our processes and the development of new products with high added value that fit best with our Company's strategy.

This idea focuses our lines of work, always towards the development of advanced and specialized products that can be used by our customers as strategic solutions for innovating within their own businesses, taking always care for the Environment and sustainable development.

Our daily effort approaches the continuous upgrading of our products, not only in composition but also in functionality and progress about knowledge and science that offer our main lines of development:

- ❖ **Mediterranean diet**
- ❖ **Oxidative damage**
- ❖ **Products of natural origin**
- ❖ **Functional validation**
- ❖ ***Caenorhabditis elegans***
- ❖ **Use of by-products**



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