



Natural Inspiration

OXABIOL® feed

**Effectiveness
100% natural**

Natural Mixed Tocopherols

 **BTSA**

OXABIOL®

www.btsa-es.com

Natural Ingredients

OXABIOL® feed

Natural antioxidant made from Tocopherols from Non-GMO vegetable oil. **Oxabiol® feed** is an excellent product to protect lipid compounds, increasing product shelf life and preserving its freshness and active ingredients. **Oxabiol® feed** is a 100% natural product, available in different concentrations and formats (liquid or powder). It is a unique product developed exclusively by **BTSA**.

ANTIOXIDANT ACTIVITY

The high antioxidant power of **Oxabiol® feed** is the result of the synergy between its active ingredients, which are naturally present in the product. **Oxabiol® feed** provides stability to fats, oils and meat or fish flours, as well as other components that incorporate pigments, vitamins or fatty compounds susceptible to oxidation, increasing the shelf-life of products.

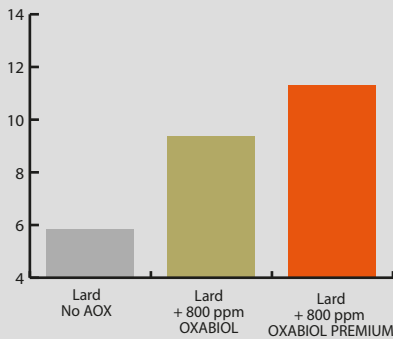
BENEFITS

- 100% natural antioxidant
- Increases shelf-life of products
- Effective at low doses
- Does not alter product palatability
- Stable at high temperatures
- Contains Alpha Tocopherol (Vitamin E)

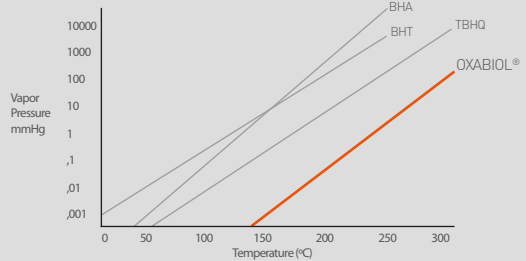
APPLICATIONS

- Fats & Oils
- Meat Flours
- Fish Flours
- Pigments
- Liposoluble Vitamins

Rancimat Test at 120°C - Lard



Oxabiol vs Synthetic Antioxidants



PRODUCTS

Product	Tocopherol	Solubility	Format	Dosage
OXABIOL®	30%	Fats / Oils	Liquid*	0,04% - 0,3%
OXABIOL® Premium	50%	Fats / Oils	Liquid*	0,03% - 0,2%

*Available in powder and water dispersible form

QUALITY COMMITMENT



Our products have been developed specifically for animal nutrition



Natural Inspiration

OXABIOL® BLENDS feed

Tailored solutions for animal nutrition

Synergic antioxidant blends



OXABIOL® BLENDS

www.btsa-es.com

Natural Ingredients

OXABIOL® BLENDS feed

Oxabiol® Blends is the range of natural and semi-natural antioxidants that combines **Tocopherols** with different natural or synthetic ingredients, looking for a synergistic effect to increase the antioxidant capacity of the product. **BTSA** develops tailored mixtures according to the needs of each client. We offer products with Green Tea Extract, Rosemary Extract, Ascorbyl Palmitate or Lecithin. Our experienced team of professionals will work with you in order to develop the best antioxidant for your product.

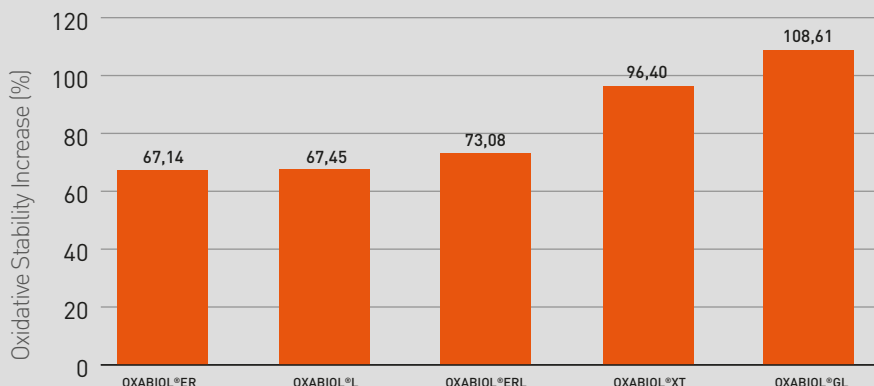
BENEFITS

- Natural & semi-natural antioxidants
- Tailored solutions for each application
- Protects lipid compounds from oxidation
- Increases shelf-life of products
- Does not alter product palatability
- Stable at high temperatures

APPLICATIONS

- Fats & Oils
- Meat Flours
- Fish Flours
- Pigments
- Liposoluble Vitamins

Rancimat Test at 120°C - Lard



PRODUCTS

OXABIOL® BLENDS	Tocopherols	Green Tea Extract	Rosemary Extract	Propyl Gallate	Lecithin
OXABIOL® L	X				X
OXABIOL® GL	X			X	X
OXABIOL® XT	X	X			
OXABIOL® ER	X		X		
OXABIOL® ERL	X		X		X

* All products are available in powder and water dispersible form

QUALITY COMMITMENT



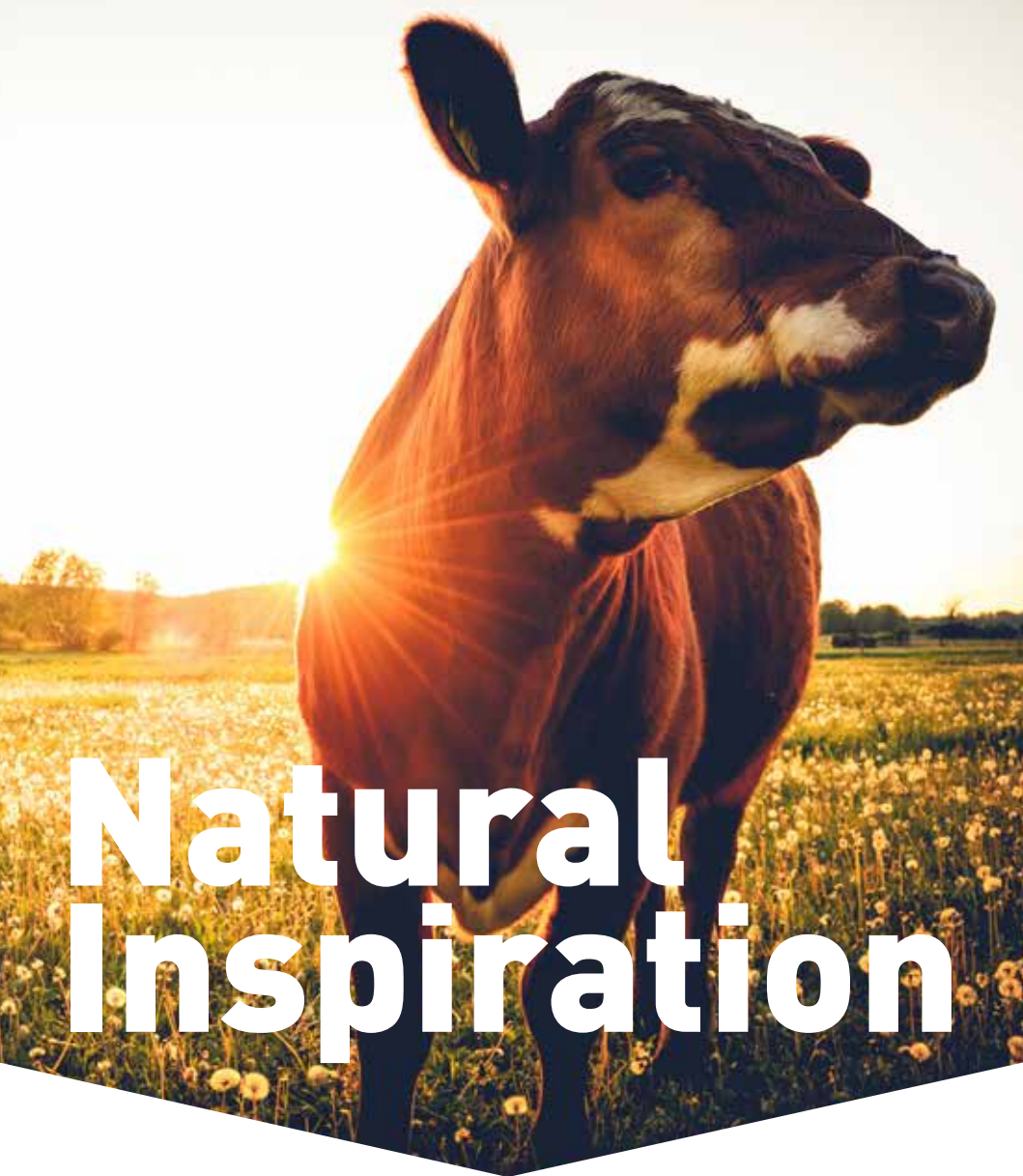
ISO 9001
BUREAU VERITAS
Certification



FSSC 22000
BUREAU VERITAS
Certification



Our products have been developed specifically for animal nutrition



Natural Inspiration

OXABIOL[®] E feed

Natural Vitamin E: Better Nutrition

d- α Tocopherol



OXABIOL[®] E

www.btsa-es.com

Natural Ingredients

OXABIOL® E feed

Natural Vitamin E (d- α Tocopherol) from **Non-GMO vegetable** is an essential compound in animal nutrition thanks to its recognized benefits. **Oxabiol® E feed** is available in different formats and concentrations, from 340 to 1300 International Units.

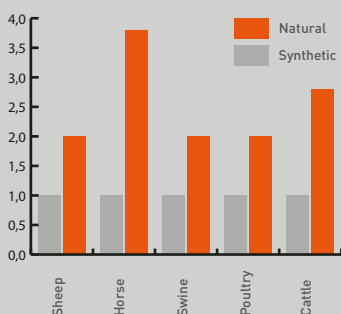
With more than 20 years of experience developing natural ingredients, **BTSA** is one of the leading European manufacturers of Natural Vitamin E for animal nutrition.

BENEFITS

- Protect cell membranes
- Higher bioavailability than synthetic vitamin E
- Prevents oxidative stress
- Helps optimal functionality of circulatory system
- Strengthens immune system
- Reproductive system development

APPLICATIONS

- Feed
- Vaccines
- Vitamin Premixes
- Nutritional Supplements



NATURAL VS SYNTHETIC VITAMIN E

Natural Vitamin E (d- α Tocopherol) has higher biological activity compared to synthetic vitamin E (dl- α Tocopherol) since there is greater absorption and therefore retention of its natural form in the body. According to the Food and Nutrition Board, NRC (2000), 1mg of synthetic Vitamin E (dl- α -Tocopherol acetate), has a maximum of 50% of active substances compared to its natural form.

PRODUCTS

Product	Alpha Tocopherol Acetate	Solubility	Format
OXABIOL® E Acetate 1000 IU	735 mg/g	Fats / Oils	Liquid
OXABIOL® E Acetate 700 IU PVS	514 mg/g	Fats / Oils	Powder
OXABIOL® E Acetate 500 IU	368 mg/g	Fats / Oils	Liquid
OXABIOL® E Acetate 340 IU PVS	250 mg/g	Fats / Oils	Powder

QUALITY COMMITMENT



Our products have been developed specifically for animal nutrition

Natural Inspiration

ECOFLAX® / BIOMEGA-TECH®

**Stabilized Omega 3 for
animal nutrition**

Flaxseed or algae origin

 **BTSA**

OMEGA 3

www.btsa-es.com

Natural Ingredients

In **BTSA** we have a full range of Omega 3 fatty acids for any type of application. We have products from **vegetable and algae origin**, which are stabilized with our own natural antioxidants for a better product performance.

BENEFITS

Stabilized with BTSA's natural antioxidants
Improves skin health
Helps strengthen the immune system
Promotes healthy and shiny coat
Reduces the risk of circulatory problems
Improvement of lipid profiles

APPLICATIONS

Feed
Pet Food
Snacks & Chews
Vitamin Premixes
Nutritional Supplements

ECOFLEX®

Ecoflax® is Omega 3 from virgin flaxseed oil (*Linum usitatissimum*) with a high content of linolenic acid (Min. 45% ALA). **Ecoflax®** is a natural source of Omega 3 so it is very suitable for the improvement of lipid profiles of products derived from animal production.

Product	Main Component (Min.)	Rest	Format
ECOFLEX®	ALA 40% - 45%	Flaxseed Oil	Liquid

* Product available in powder and water dispersible form

BIOMEGA-TECH® ALGAE

Biomega-Tech® HA is a seaweed flour (*microalgae Schizochytrium sp*) rich in Omega 3 fatty acids (DHA). It is the best vegetable alternative to fish oils due to its high content of DHA.

Product	Main Component (Min.)	Rest	Format
BIOMEGA-TECH® HA	DHA 16%-28%	Seaweed flour	Powder

QUALITY COMMITMENT



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