

## Origanox - A Natural, Multifunctional Plant Extract

Origanox™ WS, developed by Rad Natural Technologies, is a natural, cold water-soluble plant extract derived from edible herb species belonging to the Labiatae family. The multifunctional agent Origanox™ helps to protect food quality and extend its freshness for longer shelf life. It offers proven, superior efficacy in two key areas:

- Protects against lipid oxidation and its consequent deterioration in flavor, color, texture, and nutritive value, as well as the accumulation of toxic compounds.
- Enhances antibacterial agents' effectiveness in fighting and eliminating pathogenic bacteria, including Salmonella, Listeria, E. coli and Vibrio.

Origanox™ also offers health benefits as a nutraceutical supplement due its high ORAC value, as a powerful free radicals scavenger and its anti-inflammatory, anti-allergenic and anti-bacterial/anti-fungal properties.

The unique patented solvent-free technology and the selection of raw materials used in processing Origanox™ result in a highly desired combination of qualities not present in other agents on the market offered for anti-oxidation management:

- Cold Water Solubility – Origanox™ dissolves in water even at very low temperatures, such as ice water. Besides facilitating processing, in many applications the antioxidant's presence in the aqua phase provides far better protection than it does in the oily phase.
- Heat Stability and carry-through properties under high frying and baking temperatures.
- Super-High Efficiency – Due to active molecules in Origanox™ which are significantly more powerful than those in competing solutions.
- Neutral Taste – At the very low usage level, the standard Origanox™ formulation imparts no noticeable herbal flavor notes. For especially delicate applications, an extra-mild grade of Origanox™ is also available.
- Totally Natural – Considered GRAS by the FDA, Origanox™ may be listed as a flavoring, spice or plant extract, thus allowing the manufacturer a clean label.

Available in multiple grades, Origanox™ provides an effective answer for any processed food. Top food applications are:

- **Meat & fish applications**, where the water-soluble Origanox™ is especially valuable as it offers easier processing and better absorption into meat tissue.
- **Paprika Oleoresins and Carotenoids** such as beta-caroten, asthaxanthine and lycopene, in which Origanox™ significantly delays color fading.
- **Baked & Fried Foods**, where its heat stability and neutral taste make Origanox™ the ideal candidate for applications such as breakfast cereals, snacks and cakes.
- **Other applications**, in which Origanox works effectively include Beverages, Sauces & Emulsions.

### Background on the Company

Frutarom is a global company operating in the global flavor and ingredient markets. Frutarom has significant production and development centers on three continents and markets its products on five continents to over 3,500 customers in more than 100 countries. Frutarom's products are intended largely for the food, beverage, flavor, fragrance, pharmaceutical, nutraceutical, functional food, food additive, and cosmetic industries.

Frutarom operates through two Divisions:

- The Flavors Division, which develops, produces and markets flavor compounds and food systems

- The Fine Ingredients Division, which develops, produces and markets natural flavor extracts, natural functional food ingredients, natural pharma/nutraceutical extracts, essential oils and unique citrus products, and aroma chemicals

Frutarom's products are produced at its plants in the United States, England, Switzerland, Germany, Israel, Denmark, China, and Turkey. The Company's global marketing organization includes branches in Israel, the United States, England, Switzerland, Germany, Denmark, France, Hungary, Romania, Russia, Ukraine, Kazakhstan, Belarus, Turkey, Brazil, Mexico, China, Japan, Hong Kong and India. The Company also works through local agents and distributors worldwide. Frutarom employs about 1,000 people worldwide.

For further information, visit our website: [www.frutarom.com](http://www.frutarom.com).

**Picture: Origanox shows superior anti-oxidation efficacy.  
1% Linoleic acid emulsion, 10 days at 50°C**

**Origanox in Health Supplement Capsules**

