

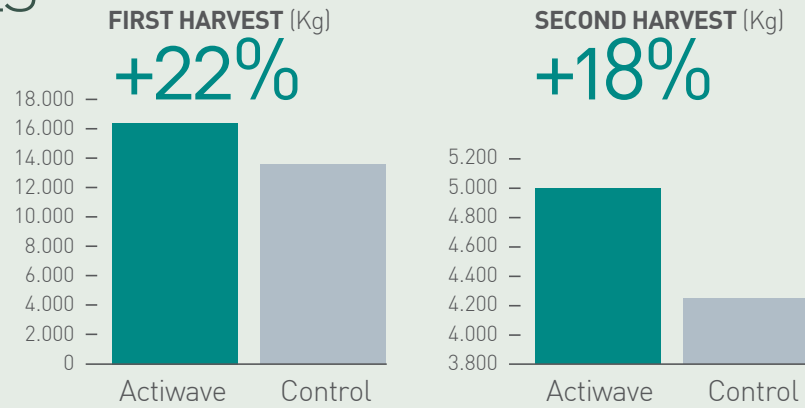
EXPERIMENTAL TRIALS

FIELD TRIALS



TOMATO

Country: Spain
Applications: 3
Dosage: 20 L/ha



FOLIAR NUTRIENTS ANALYSIS

QUANTITY OF NUTRIENTS ABSORBED BY THE PLANT



SWEET PEPPER

Country: USA
Applications: 3
Dosage: 20 Lt/ha

Macro and trace elements	Control	Actiwave	Diff. %
Nitrogen (N)	3,50	3,74	+7%
Phosphorus (P)	0,29	0,32	+13%
Potassium (K)	4,58	5,77	+26%
Calcium (Ca)	245	293	+19%
Magnesium (Mg)	0,58	0,80	+37%
Iron (Fe)	81,71	98,68	+20%
Manganese (Mn)	219,11	419,01	+91%
Copper (Cu)	3,61	6,13	+70%
Zinc (Zn)	54,91	82,91	+51%
Boron (B)	58,10	99,52	+71%

DOSAGE AND METHOD OF APPLICATION

To meet the needs of every type of crop, Valagro offers two different formulations.



ACTIWAVE
liquid
formulation



ACTIWAVE G
granular
formulation

METHOD OF APPLICATION

ACTIWAVE
Fertigation

ACTIWAVE G
Topdressing



CROP

All crops

Fruit crops

Full field horticultural crops

Industrial crops topdressing



PERIOD OF APPLICATION

During the crop cycle in the presence of well-developed root system

1-2 applications from vegetative growth to fruit enlargement

2-3 applications from vegetative growth and at intervals of 10-15 days

1-2 applications



DOSAGE

15 -25 L/ha
per application

75 -120 Kg/ha

50 -100 Kg/ha

75 -120 Kg/ha

CONCEPT STORE

ACTIWAVE[®]

MAXIMUM ABSORPTION OF NUTRIENTS IN THE SOIL





WHAT IS ACTIWAVE?

Actiwave is a unique and natural **biostimulant** that increases the absorption of nutrients in the soil and optimizes their use in plants, even in difficult growth conditions (PH, heavy soils, drought, heavy rainfall).

This exclusive formula is protected by an EPA patent (European Patent Application) that makes the product extraordinarily unique and innovative.

WHY CHOOSE ACTIWAVE?

HIGHER QUALITY AND QUANTITY OF PRODUCTION

SIGNIFICANT REDUCTION OF NITRATES IN FRUITS AND VEGETABLES



OPTIMIZES THE USE OF MINERAL FERTILIZERS

INCREASES FRUIT SIZE

UNIQUE, INNOVATIVE AND NATURAL

Thanks to Caidrine and its interaction with other active ingredients, Actiwave increases the absorption of nutrients through plant roots, by influencing the activity of the proton doors at cellular level. Caidrine also promotes the

introduction of nutrients in complex molecules (proteins, polysaccharides), whose synthesis, required for the growth of all plants, is thus encouraged and enhanced.

OTHER ACTIVE INGREDIENTS

BETAINES

- Improve the use of available water
- Provide more resistance to environmental stresses

ALGINIC ACIDS

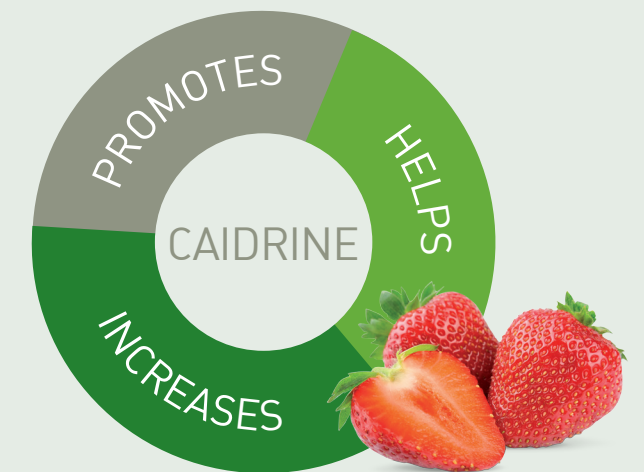
- Feature a complexing effect for nutrients
- Improve the soil structure and therefore the circulation of water and air in it

PATENTED PRODUCT

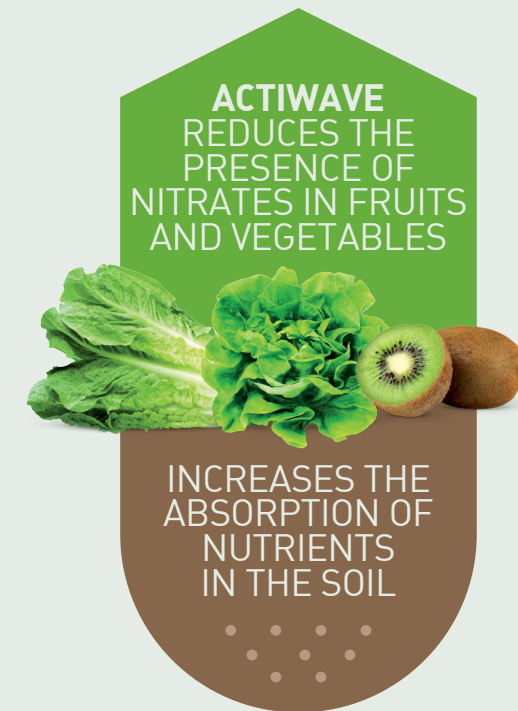
The continuous research and commitment of scientific experts in the R&D department of Valagro led to the identification of a **complex molecule** able to act directly on the mechanisms that regulate the absorption and use of nutrients.

Caidrine therefore performs three actions:

- Increases the ability of roots to absorb nutrients
- Increases the availability of nutrients in the soil, making them available for absorption by plant cells
- Promotes plant use and the inclusion of nutrients in complex molecules (proteins, polysaccharides, etc.)



THE PROBLEM OF NITRATES



Actiwave regulates the absorption and **improves the use of nutrients** within the plant, optimizing the absorption of nitrogen and **reducing the amount of nitrates** in fruits and vegetables. By improving the ability to absorb nutrients, Actiwave reduces losses from washout with positive effects for the environment.

The nitrate problem received a dedicated regulation through a European Community standard in 1997, which set the maximum tolerable content of nitrate in some vegetables, including lettuce and spinach. The plants employ nitrogen (N) to synthesize the proteins necessary for their growth, absorbing it from the ground directly in the form of nitrate or associated to other compounds. Through ground water and foods, nitrates have entered the human body, where they are converted into other substances (nitrites, nitrosamines) – these compounds are extremely harmful to human health.



Valagro is a leader in the production and commercialization of biostimulants and specialty nutrients for use in agriculture, gardening, and industrial applications. Founded in 1980 and headquartered in Atessa (Italy), Valagro is committed to providing innovative and effective solutions for plant nutrition and care. Its mission is to increase the quantity and quality of plants and harvested crops while enhancing productivity and reducing the environmental impact of cultivations.



INNOVATION ACCORDING TO GEAPOW

Use of Science to seize and exploit the potential of Nature with an eye to environmental sustainability:

This is the basic principle behind Geapower, the unique technology platform developed by Valagro to transform potential active principles into high-quality nutrient solutions. A technology based on four pillars:



Deep knowledge of active ingredients and raw materials



Choosing the way of extracting the active ingredients



Cutting edge research and analytical skills



Proven ability to provide effective solutions for customer's specific requirements