



Defender **Calmag**[®]

CALCIUM AND MAGNESIUM DEFICIENCY CORRECTOR

Benefits of its use

DEFENDER CALMAG is a product developed to prevent and correct calcium and magnesium deficiencies for all kind of crops. Its application prevents and controls calcium deficiencies aggravated by small boron and magnesium deficiencies.

DEFENDER CALMAG also contains free amino acids, which facilitate the absorption and assimilation of these microelements and act as precursors in different metabolic processes favouring the general status of crops. Calcium and magnesium are essential microelements for the correct development of plants and, whose deficiencies can lead to significant reductions of harvest yields and quality.

Calcium is essential for the integrity of cell walls and membranes, which hamper the entrance of possible pathogen agents in plants. It also intervenes in important metabolic processes such as osmotic regulation or protein synthesis. Most of the negative effects of calcium deficiency are manifested in fruits like the apical necrosis of tomato, the bitter pit in apple trees or cracking in fruits.

Magnesium is an essential microelement for the correct development of crops that act at different levels increasing metabolic efficiency and, therefore, the final crop yield. Magnesium limits chlorophyll, protein and nucleic acids synthesis as well as the activation of a big amount of enzymes that regulates the principal metabolic pathways, including photosynthesis or ATP synthesis.

DEFENDER CALMAG is a formulation designed to ensure an optimum absorption and translocation of its elements. Moreover, its efficacy has been contrasted throughout the years and, therefore, it has been consolidated as an effective product to prevent and correct calcium and magnesium deficiencies.



Composition

	(%w/w)
Calcium (CaO)	5,0
Magnesium (MgO)	5,0
Free amino acids	2,4
Long-chain polysaccharides	20,0
Amino acids obtained by enzymatic hydrolysis of plant material	



Calcium deficiency symptoms in tomato



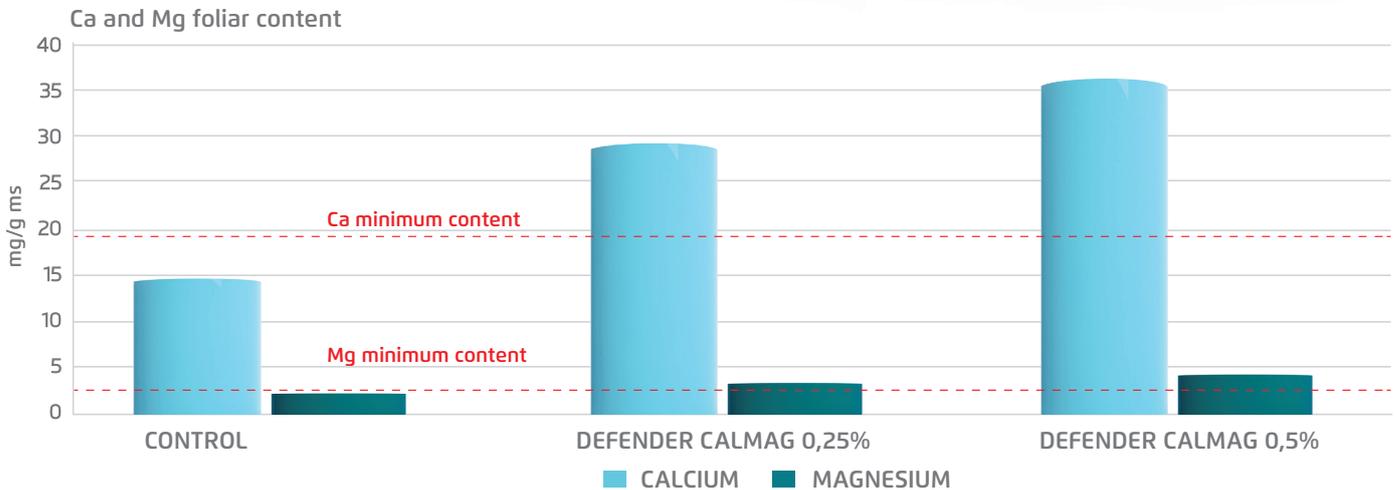
Magnesium deficiency symptoms in wheat



Efficacy trials

Calcium and magnesium absorption in oregano plants

R+D LABORATORY, FUTURECO BIOSCIENCE



Application system

DEFENDER CALMAG is applied by foliar spray and its use is recommended to prevent and correct calcium and magnesium deficiencies in all kind of crops. It is recommended to apply **DEFENDER CALMAG** when calcium and magnesium deficiency symptoms are observed or at moments of maximum necessity of these microelements.

Stability and storage

DEFENDER CALMAG is stable during at least 3 years from the manufacture date.

Keep in a fresh and ventilated place with temperatures below 50°C.

Do not store for prolonged periods under direct sunlight.

Keep away from children.

Do not eat, drink or smoke while handling this product.

Dosage

CROP	APPLICATION	DOSAGE (cc/hl)
Vegetables	When calcium and magnesium deficiencies are observed or at moments of maximum necessity of these elements	300-400
Potatoes		
Grapes and kiwi		200-300
Stone fruit trees		
Pome fruit trees		
Avocado and citrus		
Berries		

Compatibility

DEFENDER CALMAG is compatible with most of plant protection products and nutritional correctors except with products containing phosphorous. It is recommended to perform a test in a small volume to assess compatibility. If you have any doubt, please contact your local distributor for technical advice.