



Bioradicante®

STIMULATES THE ROOT SYSTEM TO OPTIMIZE CROP YIELD

Benefits of its use

BIORADICANTE is a biostimulant specifically designed for improving and boosting the growth of the root systems. Its formulation helps the plant to achieve its maximum genetic potential and establish a strong root system which will increase both nutrients and water absorption. **BIORADICANTE** improves the nutritional status of the crop and vegetative growth, leading to an increased yield.

BIORADICANTE contains a combination of specific amino acids and micronutrients that accelerate the biosynthesis of natural phytohormones (auxins, cytokinins, gibberellins and polyamines). This will help achieving a complete development of the root system, will also promote growth of both primary and lateral roots, and ultimately benefit the absorption of both water and nutrients from the soil.

BIORADICANTE also activates different physiological processes, increasing the protein synthesis and metabolic energy produced in photosynthesis. These effects lead to a direct improvement on the root growth and development, thus producing a positive feedback on the nutritional status of the crop.



Composition

| | (%w/w) |
|----------------------------------|--------|
| L-free amino acids ¹ | 10,50 |
| Total nitrogen | 2,7 |
| Boron (B) soluble in water | 0,2 |
| Iron (Fe) soluble in water | 4,5 |
| Manganese (Mn) soluble in water | 1,0 |
| Molybdenum (Mo) soluble in water | 0,05 |
| Zinc (Zn) soluble in water | 0,10 |

¹ Amino acids obtained by bacterial fermentation with *Brevibacterium* sp and enzymatic hydrolysis of vegetal proteins

Efficacy trials

Root Biomass Grapevines, Chile

Roots extracted from 6 m³ of soil



Control:
Root weight 130g.

Bioradicante:
Root weight 180g.

Aerial and Root Biomass Rice, South Korea and Honduras

Improves rooting and vigor in rice, pepper, lettuce and chinese cabbage. Trial with two applications.





Root Biomass

Tomato, Chile

Increases root development in treated plants.



Resistance to Drought

Tomato, Futureco Bioscience

Improves resistance to hydric stress in tomato by increasing the root area thus improving nutrient absorption.



% Losses after transplant.

Melon cv Honeyloupe, Chile



Application System

BIORADICANTE should be applied by fertirrigation or drench in different stages of growth. Applications at nursery or after transplant increase the survival of plantlets. It is suitable for applications during vegetative growth and after root damage (caused by nematodes, fungi or machinery).

BIORADICANTE can be mixed in nutritive solutions for hydroponics.

Stability And Storage

BIORADICANTE 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.

Dosages

| CROP | TIME OF APPLICATION | DOSAGE | OBSERVATIONS |
|-------------------------------|---|-----------------|-------------------------------|
| Vegetables | First application after transplant, repeat every 2 weeks | 2 - 3 l/Ha | 3 - 4 applications |
| Strawberry, berries | First application after transplant, repeat every 3 weeks | 2 l/Ha | 4 - 5 applications |
| Lettuce, cabbage | First application after transplant, repeat every 3 weeks | 2 l/Ha | 3 applications |
| Artichoke | First application after transplant, repeat every 20 days | 2 l/Ha | 3 applications |
| Citrus | Apply at the beginning of fruiting shoots, repeat every 2-3 weeks | 10 - 15 cc/tree | 3 applications |
| Fruit trees | Apply at the beginning of fruiting shoots, repeat every 2 weeks | 10 - 15 cc/tree | 3 applications |
| Banana | Applications distributed during the whole cycle | 5 l/Ha | 3 applications |
| Tubers | Apply every 15-20 days | 2 l/Ha | 3 applications |
| Grapevine | Apply from the beginning of bud development, repeat every 15 days | 1,5 l/Ha | 4 applications |
| Ornamentals | Apply every 15 days | 3 l/Ha | 3 - 4 applications |
| Nursery | Ask your local dealer for advise | 1 - 2 cc/l | 2 applications |
| Green beans, fava beans, peas | First application after transplant, repeat during flowering | 2 l/Ha | Apply 3 times since flowering |
| Alfalfa | Apply after each cut | 3 l/Ha | After cutting, apply at 0,2% |
| Garlic, onion | Apply 15 days after transplant. Repeat each 15 days | 3 l/Ha | 2 - 3 applications |
| Bushes | Every 15 days | 1,5 cc/plant | 3 applications |
| Hydroponics | During the whole cycle | 1 l/Ha | 2 - 3 applications |

Compatibility

For mixing with any other product conduct a test in a small volume to assess compatibility.

If you have any doubt, please contact your local dealer for technical advice.