

# VIVEMA TWIN



## PROMOTES THE FULL DEVELOPMENT OF THE ROOTS



**VIVEMA TWIN** is composed by an exclusive mix of polyphenols contained in selected tannins, to stimulate the active development of the roots and to contribute to the preservation of fertility. The product improves soil structure and it is very effective even on tired or poor in organic matter soils. The properties of the polyphenols in **VIVEMA TWIN** allow to reduce the negative effects on crops due to salinity excesses and water stagnation and they stimulate the development of useful microflora.

**VIVEMA TWIN** allows to create the best conditions for a complete availability of nutritional elements of the soil. In particular, it acts on the mobilisation of phosphorus and calcium present in the soil.

The constant emission of new roots allows for an optimal development of the plant, even in case of abiotic stresses and in soils infested by nematodes.

## WHY CHOOSE VIVEMA TWIN

- 1** Improvement of soil fertility
- 2** Constant stimulus for producing new secondary roots able to substitute the inactive ones
- 3** Prompt vegetative reaction in case of damaged roots

## APPLICATION RATES

CROP	DOSES	
	FERTIGATION	STAGES AND RECCOMENDATION
HORTICULTURE IN OPEN FIELD		
HORTICULTURE IN GREENHOUSE	8 - 10 l/ha	Apply every 15 - 20 days starting from 7 days after emergence or transplant for a total annual dose of at least 50 l
INDUSTRIAL CROPS		
FRUIT TREES (table and wine grapes, citrus, nuts, tropical fruits, olive...)	8 - 10 l/ha	Apply every 15 - 20 days starting from germination for a total annual dose of at least 50 l
STRAWBERRY AND SMALL FRUITS		
ORNAMENTALS		

On crops with evident stress signs due to soil conditions, use the dose of 10 l/ha, with a total annual dose of at least 60 l per hectare.

In case of weekly fertigations, the dose can be reduced to 6.5 l/ha for at least 8 applications according to the condition of the soil and of the crops.

**VIVEMA TWIN** can be applied in fertigation on localized irrigation systems, via sprinkling or through herbicide boom. At any water volume

Seedling baths: solution at 2.5 - 3 g/l even in association with agrochemical products.

### COMPOSITION % p/p (equivalent to % w/v at 20°C)

Organic Carbon (C)	20% w/w (24,4% w/v)
Tannins	34% w/w (41,5% w/v)
pH	3 u. pH

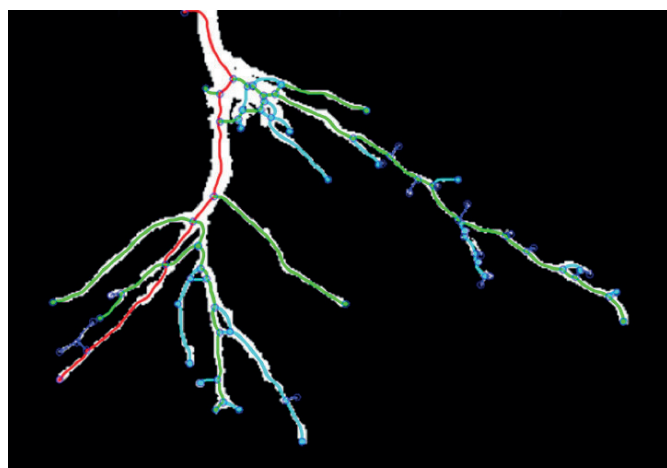
### PHYSICAL AND CHEMICAL PROPERTIES:

Density (20°C): 1.22 g/ml  
pH (1% aqueous solution p/p): 6.0± 0.5 u. pH  
Electrical conductivity (aqueous solution 1 g/l): 50 µS/cm

# VIVEMA TWIN

## BIOLOGICAL ACTIVITY

### STRONG BIOSTIMULATING ACTION OF VIVEMA TWIN ON THE ROOTS

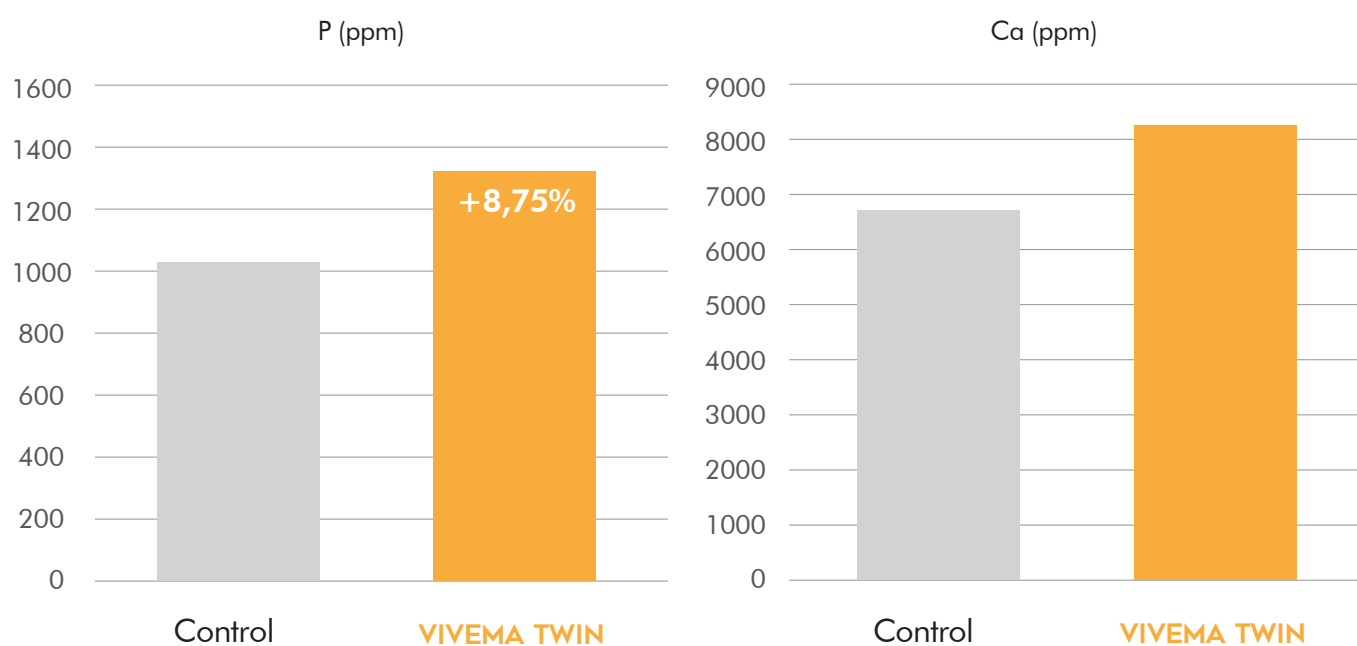


(red: primary root; green: secondary roots; blue: tertiary roots).

The plants treated with **VIVEMA TWIN** show a higher number of lateral roots compared to the non-treated plants. **ROOT SYSTEM ANALYZER®** is a software that highlights the various orders of the roots in different colors.

### VIVEMA TWIN PROMOTES THE ABSORPTION OF NUTRITIONAL ELEMENTS

LETTUCE GENTILINA VARIETY – GROWTH CHAMBER – RESEARCH CENTRE GREENHAS GROUP - CANALE  
Trial in phosphorus deficiency conditions



VIVEMA TWIN has been applied 4 times at 8 l/ha

The plants treated with VIVEMA TWIN have shown higher content of phosphorus and calcium in the leaves.