

CATALOGUE

LEGENDA



Product suitable
for **foliar** application



Product suitable
for **fertigation**



Product suitable for **Organic
Production** according to the European
Community Regulations
n° 2018/848 and 2021/1165

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01

About us

Welcome to our catalogue, a true representation of our company philosophy and commitment to modern agriculture.

Every product featured here is an embodiment of excellence, proudly **Made in Italy**, and crafted using the highest quality raw materials to ensure consistent and long-lasting results.

With a deep understanding of the international market, we take pride in our role within the **biostimulants, organic fertilizers, and specialty fertilizers sectors**.

Our approach is driven by concreteness and efficiency, addressing the real challenges of agriculture with solutions tailored to the specific needs of crops and regions.

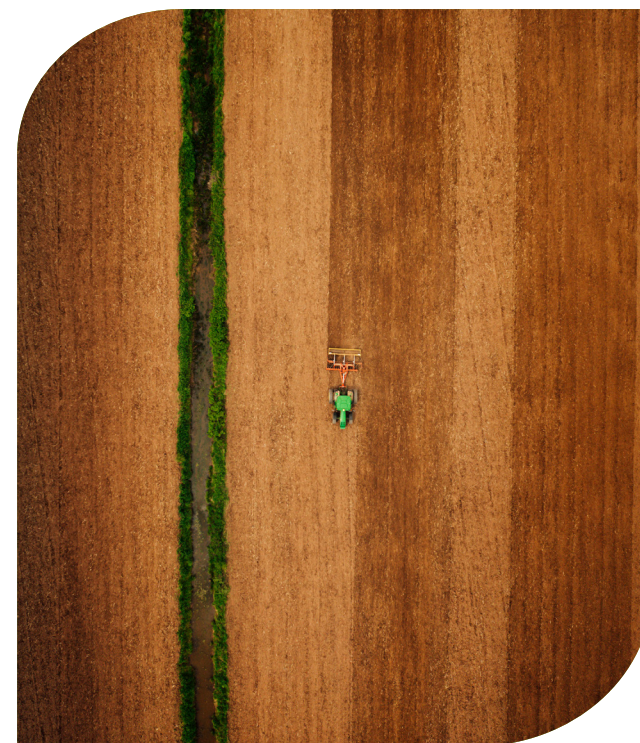
We also have our sights set on the future. Aware of the challenges posed

by Climate Change, we invest in research and development to create innovative and sustainable products that enhance productivity while respecting the environment.

Our mission is to support resilient and eco-friendly agriculture.

Furthermore, we stand out for our personalized field follow-up, offering ongoing support to our customers with our extensive expertise in plant nutrition. We are by your side every step of the way, helping you optimize your work and achieve exceptional results.

With enthusiasm and dedication, we invite you to explore our catalogue, designed to tackle today's challenges and build the future of agriculture together.



02

Bioactivators

The **BIOACTIVATORS** product line represents the latest advancements in plant nutrition technologies.

Our products, derived from organic and mineral sources, are carefully designed to address the specific requirements of each phenological phase and crop development stage.

These products have a targeted impact on plants, enhancing both the quality and quantity of agricultural yields and helping agricultural enterprises achieve greater economic returns.



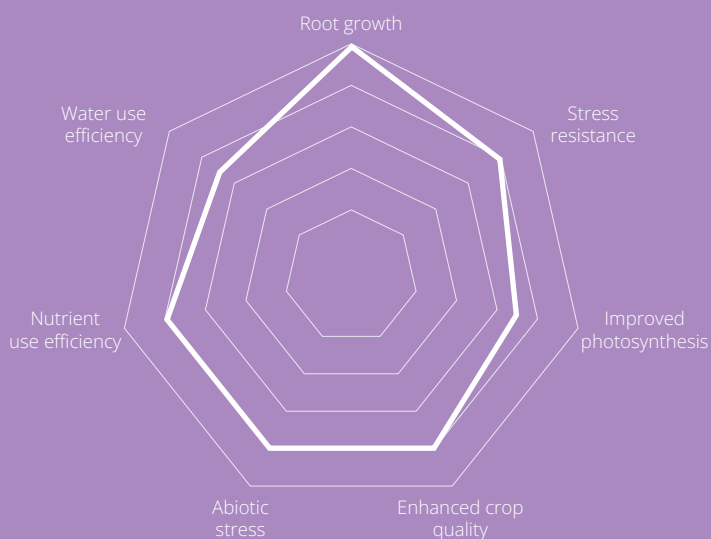


FITONATURA **ALGANT**

ROOTING

KEY BENEFIT

- 1** Promotes the development of the root system in foliar applications and enhances nutrient absorption
- 2** Improves resistance to thermal and water stress
- 3** Balances plant development



GROWTH CYCLE

Rooting

Vegetative growth

Flowering

Fruit set

Fruit enlargement

Ripening

FITONATURA ALGANT is a root bioregulator made from **seaweed extracts** and **selected yeasts**. It contains **hormone-like** substances, along with amino acids, proteins, sugars, and vitamins.

The richness of these **phytocomplexes** promotes the continuous growth of **new root hairs**, helping plants explore new soil areas.

CROPS	APPLICATION RATES	STAGES AND RECOMMENDATIONS
	FOLIAR	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	1.5 - 2 l/ha	Before flowering, during fruit set and at the beginning of ripening
CEREALS	1.5 - 2 l/ha	To support roots development
GREENHOUSE HORTICULTURE	100 - 300 ml/1000 m ²	At transplanting, at 3 rd / 4 th leaf, before flowering and during fruit set
HORTICULTURE IN OPEN FIELD & INDUSTRIAL CROPS	1.5 l/ha	
NURSERIES	100 ml/1000 m ²	At 3 rd / 4 th leaf, at transplanting and in case of etiolation
FLOWERS AND ORNAMENTALS	100 ml/1000 m ²	Before transplanting and flowering; to stimulate the development of lateral buds
GRAFTED VINES: dip it in 300 - 500 ml/hl of FITONATURA ALGANT + 200 ml/hl of FITONATURA P SPEED before transplanting		
Seed dressing: 200 ml/100 kg of seeds		
Dip seeds, bulbs and cuttings in 0.2 - 0.4% solution before sowing		
Fertigation: apply the product at the concentration of 2 - 3‰		

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

Total Nitrogen (N)	3.0% w/w	3.60% w/v
Organic nitrogen (N _{org}) from vegetal origin	2.0% w/w	2.40% w/v
Ammoniacal Nitrogen (N)	0.2% w/w	0.24% w/v
Total Phosphorous pentoxide (P ₂ O ₅)	1.0% w/w	1.20% w/v
Total Potassium oxide (K ₂ O)	3.0% w/w	3.6% w/v
Organic carbon (C _{org})	16.0% w/w	19.2% w/v
Dry matter	43.0% w/w	
C _{org} / N _{org}	5.3	

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.20 g/ml
pH (1% w/w aqueous solution at 20°C):	5.5 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	200 µS/cm



FITONATURA P SPEED is a bioactivator that stimulates root system development. Rich in phosphorus, magnesium, chelated iron and zinc, it enhances root hair growth, speeds up **rooting after transplanting** and promotes balanced vegetative growth.

Acting as **a starter**, it provides energy for **metabolic activities and boosts photosynthesis, even at low temperatures**. Its properties also make it ideal for **seed treatment**, accelerating bud development and emergence, while its mineral nature and acidic pH improve the solubility and effectiveness of active ingredients and nutrients.

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FERTIGATION	FOLIAR*	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	15 - 25 l/ha	2 - 4 l/ha	At the beginning of crop cycle and before flowering
HORTICULTURE CROPS	15 - 25 l/ha	2 - 5 l/ha	After transplanting and before flowering
EXTENSIVE CROPS	-	1.5 - 3 l/ha	From sowing to early flowering
INDUSTRIAL CROPS	10 l/ha	2 - 5 l/ha	From planting to early flowering
NURSERIES, FLOWERS AND ORNAMENTALS	10 l/ha	1 - 1.5 l/ha	After transplanting and before flowering

Seed treatment: 150 - 200 ml for 100 kg of seeds

Dip seeds, bulbs and cuttings in a 0.2 - 0.4% solution before sowing

*Foliar applications may refer to standard water volumes

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

Total Nitrogen (N)	3.0% w/w	4.20% w/v
Ureic Nitrogen (N)	3.0% w/w	4.20% w/v
Total Phosphorous pentoxide (P ₂ O ₅)	27.0% w/w	37.8% w/v
Magnesium oxide (MgO) soluble in water	6.0% w/w	8.40% w/v
Copper (Cu) chelated by EDTA, water soluble	0.01% w/w	0.014% w/v
Iron (Fe) chelated by EDTA water soluble	0.05% w/w	0.07% w/v
Zinc (Zn) chelated by EDTA water soluble	0.1% w/w	0.14% w/v

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.40 g/ml
pH (1% w/w aqueous solution at 20°C):	3.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	415 µS/cm

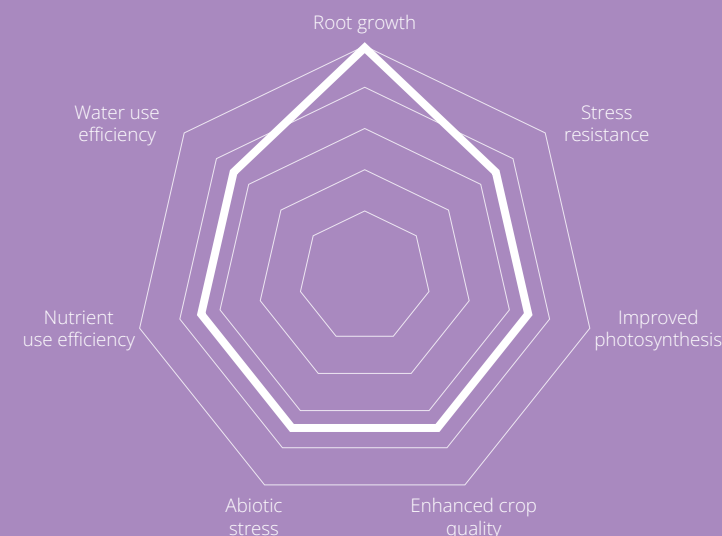


FITONATURA P SPEED

ROOTING

KEY BENEFIT

- 1 Reduces transplantation-related stress through foliar applications, dipping, and fertigation
- 2 Optimizes and synchronizes seed germination
- 3 Mineral components and acidic pH enhance nutrient solubility and efficacy
- 4 Boosts photosynthesis and metabolic activities, even at low temperatures



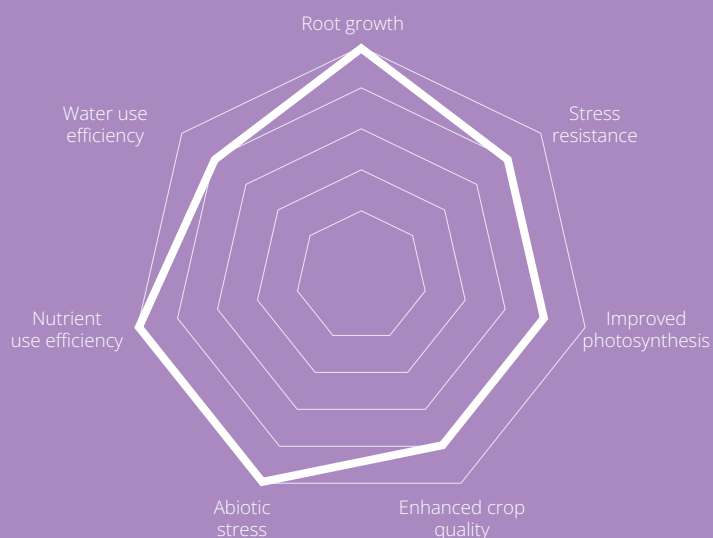


FITONATURA **FORTILIX**

ROOTING

KEY BENEFIT

- 1 Polyphenols enhance crop resilience to salinity and waterlogging, and stimulate beneficial microflora
- 2 Promotes the development of the root system in fertigation
- 3 Improves nutrient availability, particularly mobilizing soil phosphorus and calcium



GROWTH CYCLE

Rooting

Vegetative growth

Flowering

Fruit set

Fruit enlargement

Ripening

FITONATURA FORTILIX is a organic formula developed through the condensation and hydrolysis of tannins derived from various plant sources. **Enriched with polyphenols and organic acids**, it leverages the complexing properties of tannins (34% p/p) to act effectively in the rhizosphere and on the plant.

The product stimulates the continuous **formation of new roots**, even under stress conditions, enabling crops to explore a larger soil volume.

CROPS	APPLICATION RATES	STAGES AND RECOMMENDATIONS
	FERTIGATION	
HORTICULTURE IN OPEN FIELD	6 l/ha	Apply every 15 - 20 days starting from 7 days after emergence or transplant for a total annual dose of at least 30 l
GREENHOUSE HORTICULTURE		
INDUSTRIAL CROPS (potatoes, processing tomato, etc.)		
STRAWBERRY AND SMALL FRUITS		
FRUIT TREES (table and wine grapes, citrus, nuts, tropical fruits, olive, etc.)	8 l/ha	Apply during the root development stage
ORNAMENTALS AND NURSERY		
On crops with evident stress signs due to soil conditions, use an annual dose between 40 l and 60 l per hectare.		
In case of weekly fertigations, the dose can be reduced to 4 l/ha for at least 8 applications according to the condition of the soil and of the crops.		
FITONATURA FORTILIX 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 % w/w (equivalent to % w/v at 20°C)

Organic Carbon (C)	20.0% w/w	(24.4% w/v)
Tannins	34.0% w/w	(41.5% w/v)

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.22 g/ml
pH (1% w/w aqueous solution at 20°C):	6.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	50 µS/cm



Suitable for
ORGANIC
PRODUCTION



Product suitable for use
in Organic Farming in accordance
with Regulations EU n° 2018/848
and 2021/1165
Controlled by ECOCERT SAS

GROWTH CYCLE

Rooting

Vegetative growth

Flowering

Fruit set

Fruit enlargement

Ripening

FITONATURA PIANTA-GO is an **animal-derived protein hydrolysate** of enzymatic origin that promotes plant growth and development, acting on both primary and secondary metabolism.

Composed of a high number of **L-amino acids**, proteins, and enzymes, it provides organic nitrogen that is immediately assimilated and metabolized by the plant, **saving the energy** used for protein biosynthesis. Its high affinity with the cell membrane promotes **nutrient absorption** and enhances the overall effect of foliar products.

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FERTIGATION	FOLIAR	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	25 - 40 l/ha	3 - 5 l/ha	During vegetative growth and from fruit set until beginning of ripening, in case of problematic soils and in stress conditions
GREENHOUSE HORTICULTURE	25 - 40 l/ha	2 - 3 l/ha	
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	25 - 40 l/ha	3 - 5 l/ha	
NURSERIES	10 - 12 l/ha	1 - 2 l/ha	Every 7 - 12 days
FLOWERS AND ORNAMENTALS	10 - 12 l/ha	1.5 - 2 l/ha	

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

Organic Nitrogen (N)	7.2% w/w	9.1% w/v
Organic Nitrogen (N) soluble	7.0% w/w	8.8% w/v
Organic Carbon (C)	21.2% w/w	26.7% w/v
Total aminoacids	35.0% w/w	44.1% w/v
Free aminoacids	6% w/w	7.6% w/v

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.26 g/ml
pH (1% w/w aqueous solution at 20°C):	7.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	350 µS/cm

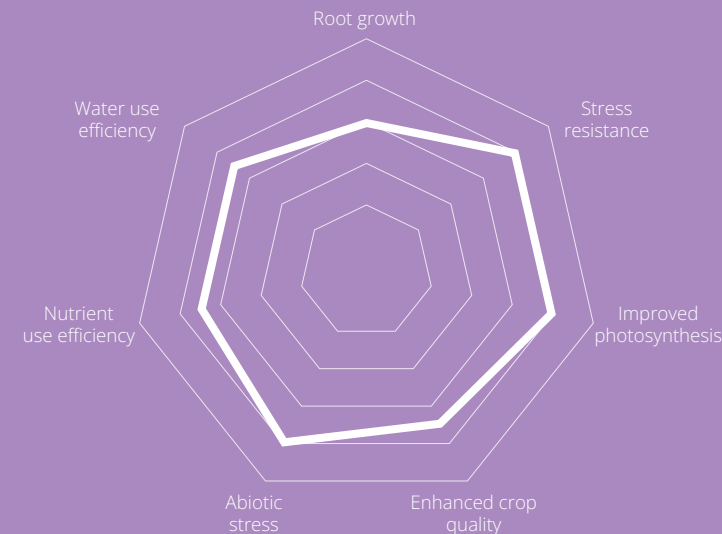


FITONATURA **PIANTA-GO**

VEGETATIVE GROWTH

KEY BENEFIT

- 1 Enables rapid recovery from growth slowdowns
- 2 Animal derived protein hydrolysate
- 3 Easily absorbable L-amino acids



Product suitable for use in Organic Farming in accordance with Regulations EU n° 2018/848 and 2021/1165
Controlled by ECOCERT SAS

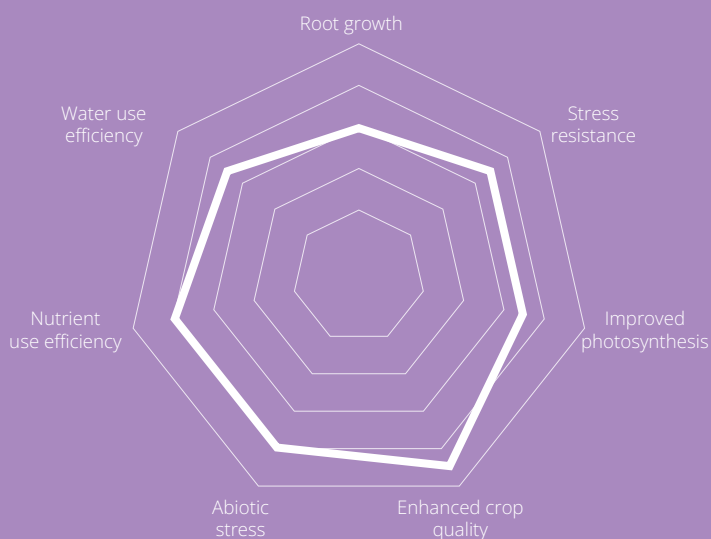


PIANTA-FRUIT

FRUIT SET

KEY BENEFIT

- 1 Promotes fruit set
- 2 Enhances pollen vitality and promotes rapid pollen tube growth
- 3 Reduces stress caused by temperature drops and rainfall during flowering period



GROWTH CYCLE

Rooting

Vegetative growth

Flowering

Fruit set

Fruit enlargement

Ripening

FITONATURA Pianta-Fruit is a **bioregulator** that enhances **flowering** and fruit setting in plants. Its exclusive low molecular weight **phytocomplex** quickly penetrates the plant, even without vegetation, stimulating abundant and homogeneous flowering.

It increases **pollen vitality**, promotes rapid **pollen tube growth**, and reduces stress caused by **temperature drops** and rainfalls during the flowering period.

CROPS	APPLICATION RATES	STAGES AND RECOMMENDATIONS
	FOLIAR	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	1.5 - 2 l/ha	Before flowering, during fruit set and at the beginning of ripening
GREENHOUSE HORTICULTURE	2 l/ha	
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	1.5 - 2 l/ha	Before flowering and during fruit set
FLOWERS AND ORNAMENTALS	1.5 - 2 l/h	Before flowering and for stimulating the development of lateral buds

Fertigation: apply the product at the concentration of 2 - 3‰

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

Total Nitrogen (N)	2.7% w/w	3.24% w/v
Organic Nitrogen (N_{org}) from vegetal origin	1.8% w/w	2.16% w/v
Ammoniacal Nitrogen (N)	0.2% w/w	0.24% w/v
Total phosphorous pentoxide (P₂O₅)	1.0% w/w	1.2% w/v
Total potassium oxide (K₂O)	2.7% w/w	3.24% w/v
Organic Carbon (C_{org})	15.5% w/w	18.6% w/v
Dry matter	42.0% w/w	
C_{org}/N_{tot}	5.7%	

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.20 g/ml
pH (1% w/w aqueous solution at 20°C):	5.5 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	200 µS/cm



GROWTH CYCLE

Rooting

Vegetative growth

Flowering

Fruit set

Fruit enlargement

Ripening

FITONATURA CALIBER is a bioactivator designed to **increase and uniform the size of the fruits**. It promotes fruit weight gain and enhances plant metabolism, thanks to the inclusion of vegetal extracts from various plants enriched with amino acids, vitamins, glucides, and low molecular weight peptides.

FITONATURA CALIBER **enhances cell division**, thereby contributing to fruit consistency and **shelf life**. For wine and table grapes, it positively impacts rachis lengthening, cluster formation and **reduces millerandage**.

CROPS	APPLICATION RATES	STAGES AND RECOMMENDATIONS
	FOLIAR	
FRUIT TREES	-	3 - 4 treatments starting from fruit set every 10 - 15 days
Stone fruits	2.5 - 3.5 l/ha	1 st application: from stone hardening - 2 nd application: 8-10 days after 1 st application 3 rd application: 8-10 days after 2 nd application
Apple and Pear		From 20 mm fruit size (or after thinning), 3-4 applications every 12-15 days
Hazelnut		From early fruit enlargement: 1 st application between E (hazel differentiation) and F (visible fecundated ovary) 2 nd application between G (almond growth stage 1) and H (almond growth stage 2)
Actinidia	3.5 - 4.5 l/ha	1 st application: after fruit set - 2 nd application: 15-20 days after 1 st application 3 rd application: 15-20 days after 2 nd application
Clementine / Tangerine	3.5 - 4.5 l/ha	From 15-20 mm fruit size, 3 applications every 15-18 days
TABLE GRAPES	3.5 - 4.5 l/ha	Berry enlargement: 1 st application: 4-6 mm berries size - 2 nd application: 10-16 mm berries size - 3 rd application: pre-veraison Rachis elongation and millerandage reduction: 1 st application: inflorescences clearly visible (or in presence of 6 leaves at least) 2 nd application: inflorescences fully developed; flowers separating - 3 rd application: flower hoods fall
WINE GRAPES		Rachis elongation and millerandage reduction: 1 st application: inflorescences clearly visible (or in presence of at least 6 leaves) 2 nd application: inflorescences fully developed; flowers separating - 3 rd application: flower hoods fall
OLIVE TREES	2.5 - 3 l/ha	From stone hardening, 2 applications (also with pesticides)
VEGETABLES	2.5 - 3.5 l/ha	From fruit set, 3-4 applications each 10-15 days
STRAWBERRY AND SMALL FRUITS	3 l/ha	From fruit set, 3-4 applications each 10-15 days

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

Total Nitrogen (N)	3.0% w/w	3.80% w/v
Organic Nitrogen (N) from vegetal origin	2.5% w/w	3.20% w/v
Ammoniacal Nitrogen (N)	0.5% w/w	0.65% w/v
Total Phosphorous pentoxide (P ₂ O ₅)	4.0% w/w	5.10% w/v
Potassium oxide (K ₂ O)	6.0% w/w	7.60% w/v
Organic Carbon (C _{org})	16.0%	
Dry matter	45.0%	

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.27 g/ml
pH (1% w/w aqueous solution at 20°C):	6.5 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	350 µS/cm

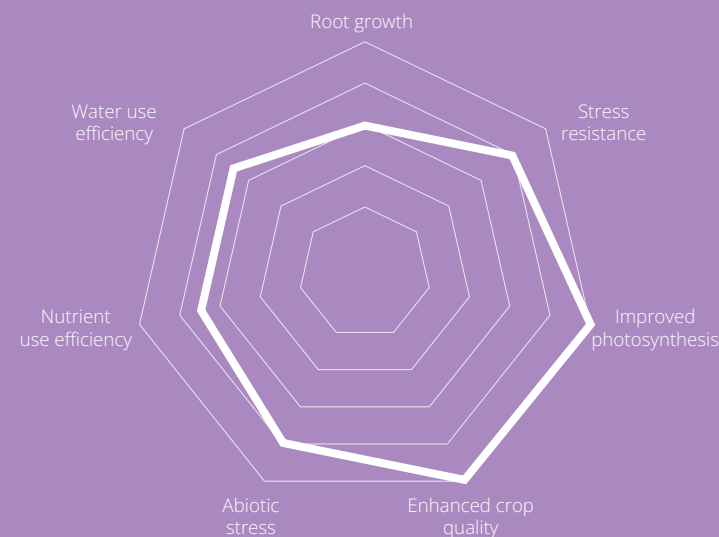


FITONATURA CALIBER

FRUIT ENLARGEMENT

KEY BENEFIT

- 1 Increases and uniforms the size of fruits
- 2 Enhances cell division, thereby contributing to fruit consistency and shelf life
- 3 Enhances plant metabolism and reduces fruit drop



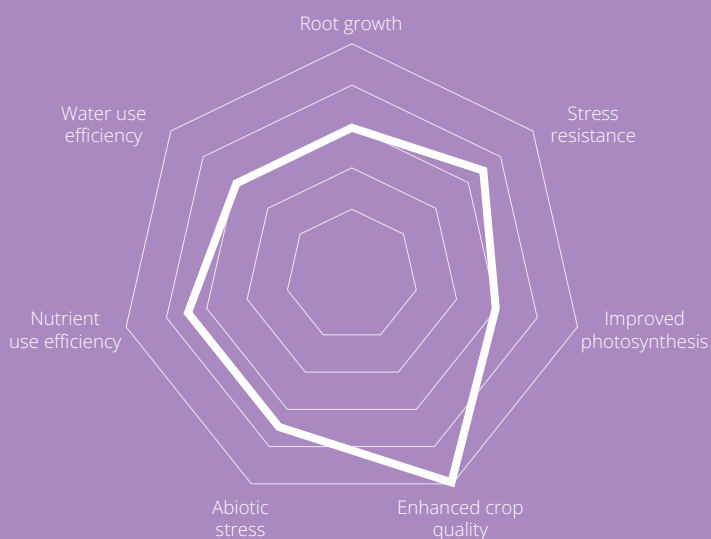


FITONATURA COLOR FINISH DUO

RIPENING

KEY BENEFIT

- 1 Increases ripening , color intensity and °Brix
- 2 Promotes ripening without accelerating fruit tissue senescence
- 3 Homogenizes and anticipates ripening, facilitating harvesting



GROWTH CYCLE

Rooting

Vegetative growth

Flowering

Fruit set

Fruit enlargement

Ripening

FITONATURA COLOR FINISH DUO enhances **ripening**, **color intensity** and **°Brix**. Due to its specifically tailored P-K+micro ratio promotes ripening while reducing fruit tissue **senescence**.

It promotes homogenous ripening, increases **sugar** and soluble solids content, and supports the formation of aromatic and **polyphenolic** substances.

CROPS	APPLICATION RATES	STAGES AND RECOMMENDATIONS
	FOLIAR	
Pome fruits	3 - 5 l/ha	45 - 30 - 20 days before harvest, post-harvest
Stone fruits		30 - 20 - 10 days before harvest, post-harvest
Actinidia		40 - 20 days before harvest
Citrus		From pre-veraison until the end of ripening
Wine grapes		From fruit set until end of veraison and post-harvest.
Table grapes		On wine grape the product can be applied also at low volumes (100 - 200 l of water/ha)
PROCESSING TOMATO	10 l/ha	1 st application at 1 st cluster veraison - 2 nd application after 10-15 days 3 rd application after 10-15 days
GREENHOUSE HORTICULTURE	200 - 300 ml/ha	From veraison until ripening
LEAF VEGETABLES	2 l/ha	Until 10 days before harvest (head closing)
BULBS AND TUBERS (potatoes)	4 l/ha	1 st application at full blossom - 2 nd application after 10 days
STRAWBERRY AND LITTLE FRUITS	300 - 400 ml/ha	From fruit set every 12-15 days
ORNAMENTALS, FLOWERS AND NURSERIES	300 - 400 ml/ha	Early stages of vegetative growth
EXTENSIVE CROPS (sugarbeet, oilseed, sunflowers, cereals, etc)	2 - 5 l/ha	From early flowering according to crop needs
*Foliar applications referred to standard water volumes		
Fertigation: use the product at the concentration of 2 - 3‰ at the rate of 15 - 20 l/ha treated		

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

Total Nitrogen (N)	3% w/w	4.2% w/v
Ureic Nitrogen (N)	3% w/w	4.2% w/v
Phosphorus pentoxide (P ₂ O ₅) soluble in water	14% w/w	19.6% w/v
Potassium oxide (K ₂ O) soluble in water	19% w/w	26.6% w/v
Boron (B) soluble in water	0.05% w/w	0.07% w/v
Manganese (Mn) chelated by EDTA soluble in water	0.1% w/w	0.14% w/v
Molybdenum (Mo) soluble in water	0.01% w/w	0.014% w/v

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.40 g/ml
pH (1% w/w aqueous solution at 20°C):	7.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	480 µS/cm



GROWTH CYCLE

Rooting

Vegetative growth

Flowering

Fruit set

Fruit enlargement

Ripening

FITONATURA PIANTA-MAX is a plant-derived **anti-stress** product. Its formula, crafted through **enzymatic hydrolysis**, contains a high percentage of free **L-amino acids** and **4% glycine betaine**.

It effectively prevents and alleviates **abiotic stresses** like extreme temperatures, water shortages, and soil salinity. Glycine betaine helps maintain **cellular firmness** and reduces the formation of reactive oxygen species (ROS) under stress conditions. Used with herbicides, it enhances nutrient absorption and aids crop recovery from treatment stress.

CROPS	APPLICATION RATES	STAGES AND RECOMMENDATIONS
	FOLIAR	
FRUIT TREES	2 - 4 l/ha	Any stage. It is recommended using the lower rate to prevent stressing situations while the higher rate is suggested in presence of clear stress symptom.
GREENHOUSE HORTICULTURE	2 l/ha	
HORTICULTURE IN OPEN FIELD	2 - 3,5 l/ha	
EXTENSIVE CROPS	2 - 3 l/ha	
NURSERIES, FLOWERS, ORNAMENTALS, AROMATIC AND OFFICINALIS PLANTS	2 - 2,5 l/ha	

Fertigation: 10 - 20 l/ha according to agronomical conditions

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

Total nitrogen (N)	6.0% w/w	7.5% w/v
Organic Nitrogen (N) from vegetal origin	3.0% w/w	3.75% w/v
Ammoniacal nitrogen (N)	3.0% w/w	3.75% w/v
Total phosphorous pentoxide (P ₂ O ₅)	1.0% w/w	1.25% w/v
Organic Carbon (C _{org})	20.0% w/w	25% w/v
Dry matter	54.0% w/w	
C _{org} / N _{tot}	3.3	

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.25 g/ml
pH (1% w/w aqueous solution at 20°C):	6.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	270 µS/cm

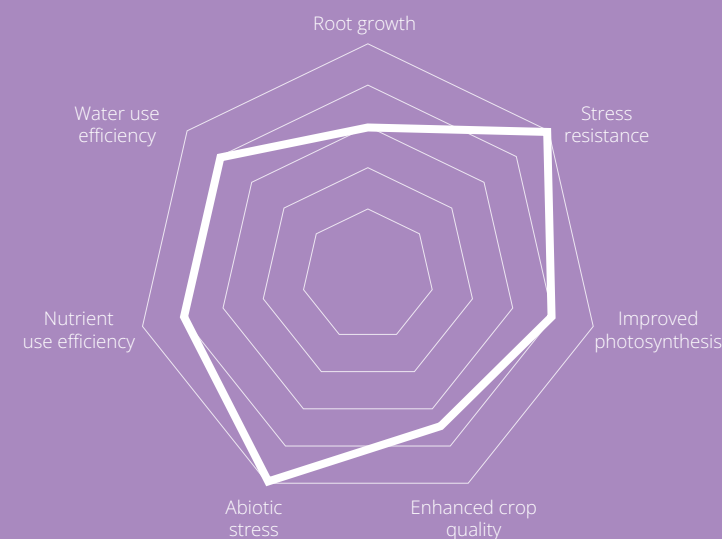


PIANTA-MAX

ANTISTRESS

KEY BENEFIT

- 1 Prevents and alleviates abiotic stresses
- 2 Increases nutrient use efficiency
- 3 Contains 4% glycine betaine from enzymatic hydrolysis



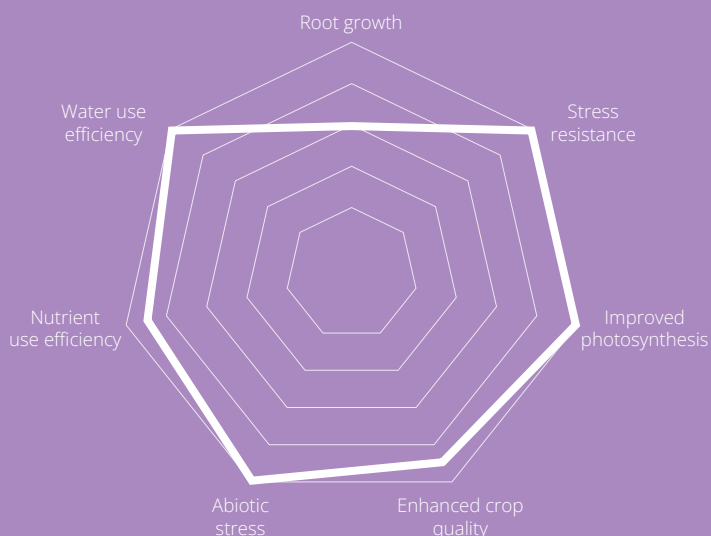


FITONATURA GALATEA

ANTISTRESS

KEY BENEFIT

- 1 Mitigates water stress
- 2 Protects against light stress
- 3 Reduces leaf burn



GROWTH CYCLE

Rooting

Vegetative growth

Flowering

Fruit set

Fruit enlargement

Ripening

FITONATURA GALATEA is a liquid fertilizer with bioregulator action made from a balanced blend of two **brown algae** extracts and **selected yeasts**.

The formula helps crops to maintain full vegetative functionality and **efficient photosynthetic** capacity, even under the most difficult growing conditions and in case of **abiotic stress**.

CROPS	APPLICATION RATES	STAGES AND RECOMMENDATIONS
	FOLIAR	
FRUIT TREES AND SHELL FRUITS	2 - 2.5 l/ha	2 l/ha to prevent undesirable situations, and a dose of 2,5 l/ha to mitigate already visible stress situations
GRAPES	2 - 2.5 l/ha	4 applications, from pre-flowering to veraison to prevent abiotic stresses
HORTICULTURE IN OPEN FIELD, POTATOES AND INDUSTRIAL TOMATO	2 - 2.5 l/ha	From vegetative development with a dose of 2 l/ha to prevent undesirable situations, and a dose of 2,5 l/ha to mitigate already visible stress situations
GREENHOUSE HORTICULTURE	200 - 250 ml/hl	Throughout the whole crop cycle

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

Organic Nitrogen (N)	2.5% w/w	3.0% w/v
Organic Carbon (C)	14.0% w/w	16.8% w/v
Organic matter with nominal molecular weight < 50 kDa	80.0% w/w	

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.20 g/ml
pH (1% w/w aqueous solution at 20°C):	5.5 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	250 µS/cm



Product suitable for use
in Organic Farming in accordance
with Regulations EU n° 2018/848
and 2021/1165
Controlled by ECOCERT SAS

GROWTH CYCLE

Rooting

Vegetative growth

Flowering

Fruit set

Fruit enlargement

Ripening

FITONATURA PIANTA VIT promotes **plant growth** under severe environmental stress. It is a **protein hydrolysate** from plant matrices, containing **10% L-amino acids** and **7% glycine betaine**.

Versatile in its application, foliar use reduces **abiotic stresses**, while soil use **enhances microorganism activity, improving soil fertility**. It meets the nitrogen and potassium demands of crops.

CROPS	APPLICATION RATES	STAGES AND RECOMMENDATIONS
	FERTIGATION	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREE AND TROPICAL FRUITS	10 - 20 l/ha	From the beginning of vegetative growth to be repeated every 15 - 20 days (depending on needs) till the end of crop cycle. For the best result in fertigation, apply at least 50 - 60 l/ha per season
GREENHOUSE HORTICULTURE	2 - 3 l/1000 m ²	From the beginning of vegetative growth to be repeated every 15 - 20 days (depending on needs) till the end of crop cycle.
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	10 - 20 l/ha	
NURSERIES, FLOWERS AND ORNAMENTALS	1,5 - 2 l/1000 m ²	Transplantation or after pruning, to repeat every 15 -20 day till the end of crop cycle

For foliar application 3 - 4 l/ha

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

Total Nitrogen (N)	3.0% w/w	3.9% w/v
Organic Nitrogen (N) from vegetal origin	2.0% w/w	2.6% w/v
Ammoniacal Nitrogen (N)	0.2% w/w	0.26% w/v
Total potassium oxide (K ₂ O)	6.0% w/w	7.8% w/v
Organic Carbon (C)	18.0% w/w	23.4% w/v
Dry matter	60.0%	
C _{org} /N _{tot}	6.0	

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.30 g/ml
pH (1% w/w aqueous solution at 20°C):	7.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	400 µS/cm

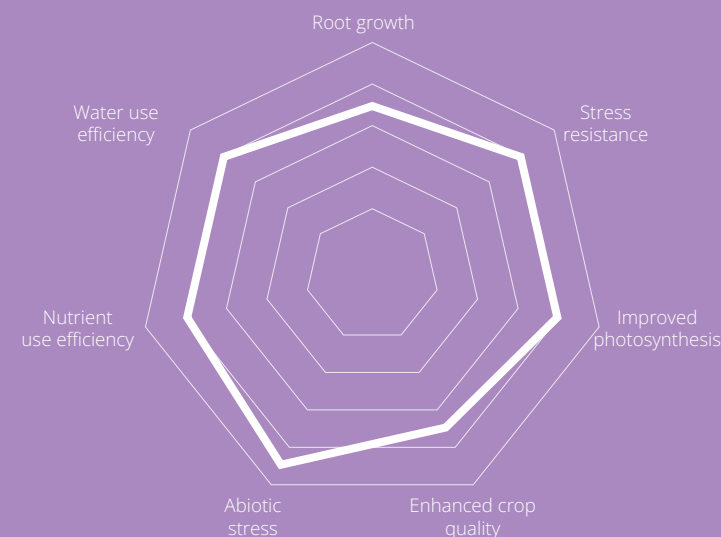


PIANTA VIT

ANTISTRESS

KEY BENEFIT

- 1 Provides an antistress effect in fertigation
- 2 Contains 7% glycine betaine
- 3 Supplies amino acids of plant origin



Suitable for
ORGANIC
PRODUCTION



Product suitable for use
in Organic Farming in accordance
with Regulations EU n° 2018/848
and 2021/1165
Controlled by ECOCERT SAS



FITONATURA **REVITAL**

STOP DORMANCY

KEY BENEFIT

- 1 Advances and uniformes the germination of buds
- 2 Anticipates and increases the harvest



FITONATURA REVITAL ACTIVATOR is a liquid fertilizer based on nitrogen and calcium, two elements connected in optimum relation for activating **FITONATURA REVITAL**.

Thanks to its chemical composition, **FITONATURA REVITAL ACTIVATOR** strenghtens **FITONATURA REVITAL** efficacy.

GROWTH CYCLE

Rooting

Vegetative growth

Flowering

Fruit set

Fruit enlargement

Ripening

FITONATURA REVITAL is a fertilizer containing nitrogen in **three different forms** (nitric, ureic, and ammoniacal), along with calcium oxides and carefully balanced **microelements**.

It supports the plant in the phenological phase of early and uniform bud hatching in some fruit trees (**table grapes, actinidia, cherry, apricot, plum, and walnut**) reducing the number of **undeveloped buds**, even when the required **cold hours** for optimal bud hatching are not met.

Do not mix **FITONATURA REVITAL** with other products except **FITONATURA REVITAL ACTIVATOR** or calcium nitrate 5%.

CROPS	APPLICATION RATES			EXAMPLE OF APPLICATION	APPLICATION AND RECOMMENDATIONS
	FITONATURA REVITAL	FITONATURA REVITAL ACTIVATOR	WATER VOLUME		
TABLE GRAPE	6 - 8 l/100 l	16 - 20 l/100 l	600 - 800 l/ha	6 l Fitonatura Revital + 16 l Fitonatura Revital Activator + 78 l water	60 - 45 days before budding *, on the aerial part
ACTINIDIA					50 - 45 days before budding *, on the aerial part
CHERRY	6 - 8 l/100 l	8 l/100 l	1000 - 1500 l/ha	6 l Fitonatura Revital + 8 l Fitonatura Revital Activator + 86 l water	45 days before flowering *, on the aerial part
APRICOT	7 - 8 l/100 l	7,5 l/100 l	600 - 800 l/ha	6 l Fitonatura Revital + 8 l Fitonatura Revital Activator + 86 l water	55 - 45 days before flowering *, on the aerial part
PLUM				6 l Fitonatura Revital + 8 l Fitonatura Revital Activator + 86 l water	
WALNUT	2 - 4 l/100 l	4 - 5 l/100 l	1000 - 1500 l/ha	2 l Fitonatura Revital + 4 l Fitonatura Revital Activator + 94 l water	45 - 35 days before budding *, on the aerial part
ALMOND	6 - 8 l/100 l	6 - 8 l/100 l	600 - 800 l/ha	6 l Fitonatura Revital + 8 l Fitonatura Revital Activator + 86 l water	25 - 20 days before flowering *, on the aerial part
RASPBERRIES	3.5 l/100 l	9 l/100 l	500 - 800 l/ha	3.5 l Fitonatura Revital + 9 l Fitonatura Revital Activator + 87.5 l water	Treat only immediately after pruning/defoliation on lignified buds
BLACKBERRIES	7 l/100 l	18 l/100 l		7 l Fitonatura Revital + 18 l Fitonatura Revital Activator + 75 l water	
APPLE	5 - 6 l/100 l	5 - 6 l/100 l	800 - 1000 l/ha	5 l Fitonatura Revital + 5 l Fitonatura Revital Activator + 90 l water	50 - 45 days before budding *, on the aerial part

*To be managed according to weather and crops conditions

FITONATURA REVITAL is also registered: in Brazil on apple at 3 l/100 l + **FITONATURA REVITAL ACTIVATOR** 3 l/100 l (water volume 1000 l/ha) at the beginning of leaf bud swelling.

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

Total Nitrogen (N)	15.0% w/w	18.6% w/v
Nitric nitrogen (N)	6.0% w/w	7.44% w/v
Ammoniacal nitrogen (N)	3.0% w/w	3.72% w/v
Ureic nitrogen (N)	6.0% w/w	7.44% w/v
Calcium oxide (CaO) soluble in water	4.0% w/w	4.96% w/v
Iron (Fe) chelated by EDTA soluble in water	0.04% w/w	0.05% w/v
Zinc (Zn) chelated by EDTA soluble in water	0.04% w/w	0.05% w/v

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.24 g/ml
pH (1% w/w aqueous solution at 20°C):	7.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	550 µS/cm

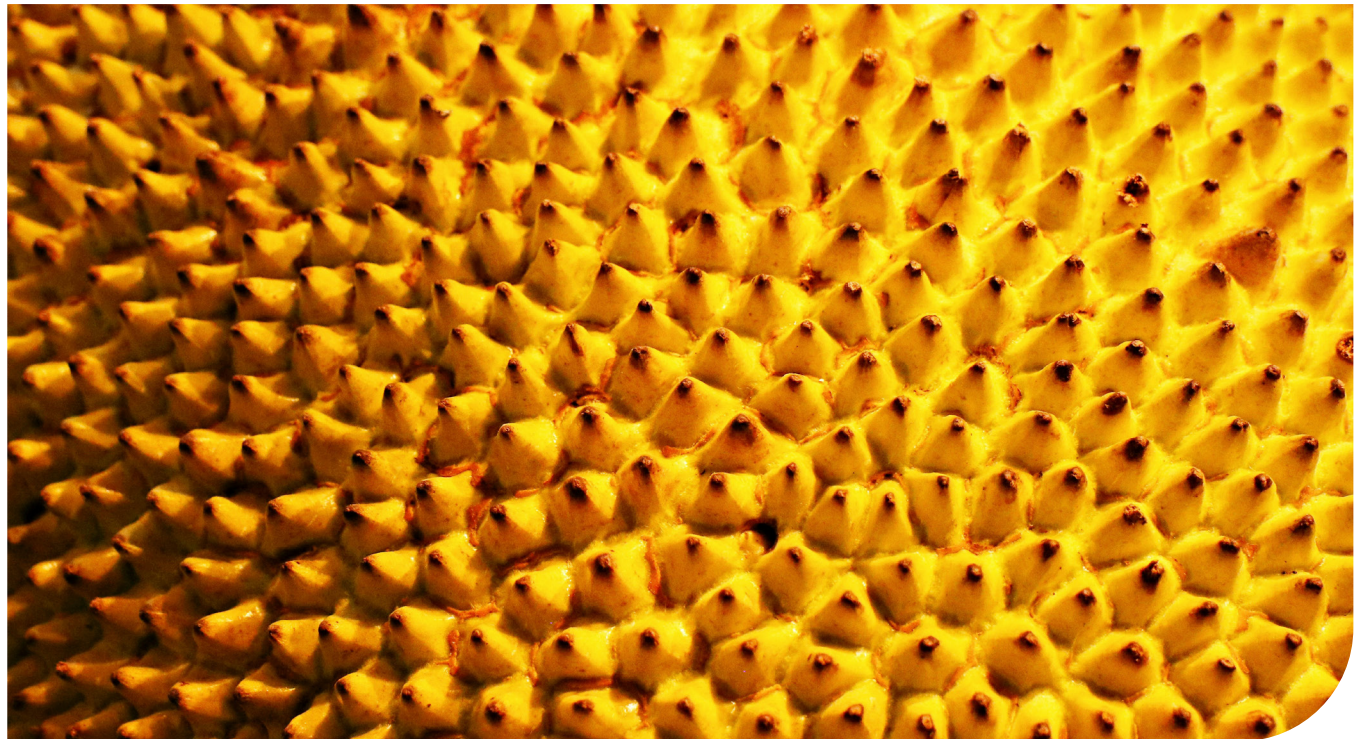


03

Premium

Products with an exclusively mineral formulation, specifically designed to provide a prompt and effective solution to nutrient deficiencies and address specific physiological disorders.

These products are developed with a deep understanding of the practical challenges faced by agricultural operations and are distinguished by their high deliquescence and exceptional nutrient bioavailability.





FITONATURA EVOLUTION LINE



NPK FOR FOLIAR APPLICATION WITH DELIQUESCENT PROPERTIES TO OPTIMIZE ELEMENT EFFICIENCY

EVOLUTION is an advanced line of water-soluble products in microcrystalline form, designed exclusively for foliar applications.

Thanks to its high deliquescence, the product ensures that the soluble saline layer, formed after water evaporation, becomes available to the plant through the relative humidity of the morning air.

KEY BENEFIT



Microcrystalline form



Formulation: Enriched with chelated microelements for maximum quality



High Solubility:
EVOLUTION products have solubility exceeding 500g/l



Deliquescence effect

RECOMMENDED USAGE

- **Compatibility:** Compatible with most herbicides and pesticides commonly used in agriculture.
 - » **Exceptions:**
EVOLUTION 7-5-40+3 and **EVOLUTION 12-48-8:** Avoid mixing with alkaline and mineral oils.
EVOLUTION 20-20-20: Avoid mixing with alkaline products, mineral oils, calcium, and zinc.
- **Note:** For sensitive crops, conduct preliminary tests on a few plants before extensive applications.

CROPS	APPLICATION RATES	STAGES AND RECOMMENDATIONS
	FOLIAR	
FRUIT TREES, GRAPE, CITRUS, OLIVE TREES	3 - 5 kg/ha	Apply each formula according to crop stage and needs
GREENHOUSE HORTICULTURE	150 - 250 g/hl	
HORTICULTURE IN OPEN FIELD, INDUSTRIAL CROPS AND EXTENSIVE CROPS	2.5 - 4.5 kg/ha	
NURSERIES	1 - 1.5 kg/ha	
FLOWERS AND ORNAMENTALS	1.5 - 2.5 kg/ha	

*Foliar applications referred to standard water volumes

COMPOSITION % w/w

Evolution	N-tot	N-nit	N-amm	N-ur	P ₂ O ₅ sol in H ₂ O	K ₂ O sol in H ₂ O	MgO sol in H ₂ O	B sol in H ₂ O	Cu (EDTA) sol in H ₂ O	Fe (EDTA) sol in H ₂ O	Mn (EDTA) sol in H ₂ O	Mo sol in H ₂ O	Zn (EDTA) sol in H ₂ O
30-10-10+micro	30	3	3	24	10	10	-	0.05	-	0.1	0.05	0.001	0.01
20-20-20+micro	20	6.0	5.1	8.9	20	20	-	0.02	0.05	0.1	0.05	0.001	0.05
12-48-8+micro	12	2	10	-	48	8	-	0.05	-	0.1	0.05	0.001	0.01
7-5-40+3+micro	7	7	-	-	5	40	3	0.05	-	0.1	0.05	0.001	0.01

PHYSICAL AND CHEMICAL PROPERTIES

Evolution	Water solubility at 20°C (g/l)	pH (1% w/w aqu. sol.)	Electrical conductivity 1 g/l aqu. sol. (μS/cm)
30-10-10+micro	550	6.5 ± 0.5	750
20-20-20+micro	520	6.5 ± 0.5	900
12-48-8+micro	435	6.0 ± 0.5	1100
7-5-40+3+micro	410	4.5 ± 0.5	1250



FITONATURA ROYAL CALFEED

THE ACID WS FERTILIZER WITH CALCIUM

KEY BENEFIT

- 1

 NPK with Calcium
- 2

 Micro in chelated form (EDTA)
- 3

 Acid pH

GROWTH CYCLE

Rooting

Vegetative growth

Flowering

Fruit set

Fruit enlargement

Ripening

ROYAL CALFEED is a water-soluble NPK fertilizer **with calcium and trace elements**. Its **acidic pH** enhances nutrient solubility and availability while **demobilizing** otherwise unavailable minerals in the soil.

The **high calcium** content prevents deficiencies and **physio-pathologies**. Suitable for **fertigation**, it helps keep the fertigation system clean by removing **carbonate deposits**.

ROYAL CALFEED can be used throughout the entire vegetative cycle.

CROPS	APPLICATION RATES		TIME INTERVAL (days)
	FERTIGATION	FOLIAR*	
FRUIT TREES, GRAPE, CITRUS, OLIVE TREES	25 - 100 kg/ha	3 - 5 kg/ha	15 - 20
GREENHOUSE HORTICULTURE	25 - 75 kg/ha	150 - 350 g/hl	12 - 15
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	25 - 50 kg/ha	2.5 - 4.5 kg/ha	15 - 20
NURSERIES	10 - 15 kg/ha	1 - 1.5 kg/ha	-
FLOWERS AND ORNAMENTALS	25 kg/ha	1.5 - 2.5 kg/ha	7 - 12

SOILLESS CROPS: use the product at the maximum concentration of 15 - 20% to prepare the mother solution and dilute in irrigation water

*Foliar applications referred to standard water volumes

COMPOSITION % w/w

Total Nitrogen (N)	14.0% w/w
Nitric Nitrogen (N)	10.0% w/w
Ureic Nitrogen (N)	4.0% w/w
Total phosphorus pentoxide (P ₂ O ₅)	11.0% w/w
Phosphorus pentoxide (P ₂ O ₅) water soluble	11.0% w/w
Potassium oxide (K ₂ O) water soluble	22.0% w/w
Calcium oxide (CaO) water soluble	8.0% w/w
Boron (B) water soluble	0.01% w/w
Iron (Fe), chelated by EDTA, water soluble	0.02% w/w
Manganese (Mn), chelated by EDTA, water soluble	0.01% w/w
Molybdenum (Mo) water soluble	0.001% w/w
Zinc (Zn), chelated by EDTA, water soluble	0.002% w/w

PHYSICAL AND CHEMICAL PROPERTIES

Water solubility at 20°C:	420g/l
pH (1% w/w aqueous solution at 20°C):	3.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	1400 µS/cm



GROWTH CYCLE

Rooting

Vegetative growth

Flowering

Fruit set

Fruit enlargement

Ripening

ROYAL EVOCAL is a liquid fertilizer, especially designed for **fertigation**, containing **highly assimilable calcium** and a **bioactivator** containing auxine-like components that naturally stimulate plant and root development. These components are essential for the effective **transport of calcium**.

As a matter of fact, calcium translocation is facilitated by various mechanisms, including the role of indoleacetic acid (IAA), a type of auxin. While calcium typically moves in a basipetal way (from the apex to the base), associated with IAA, it also travels in the opposite direction (acropetal = from the base to the apex). This is essential for calcium to reach leaves and fruits properly.

CROPS	APPLICATION RATES	STAGES AND RECOMMENDATIONS
	FERTIGATION	
FRUITS TREES AND GRAPES	15 - 20 l/ha	During fruit set and fruit enlargement 2 - 3 applications throughout crop cycle)
HORTICULTURE IN OPEN FIELD	10 - 15 l/ha	After the first blossom (3 - 4 applications throughout crop cycle)

Use the product at the concentration of 0,2 - 0,3%

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

Calcium oxide (CaO) soluble in water	18.0% w/w	25.2% w/v
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PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.40 g/ml
pH (1% w/w aqueous solution at 20°C):	7.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	900 µS/cm



FITONATURA
**ROYAL
EVOCAL**

**EFFECTIVE Ca
AT FRUIT LEVEL**

KEY BENEFIT

- 1 Natural complex in the formula
- 2 Promotes translocation of calcium in an acropetal way
- 3 Improves the assimilation of calcium at fruit level





FITONATURA ROYAL SYNERGY

Ca AND Mg TOGETHER

KEY BENEFIT

1

Synergy between calcium and magnesium

2

Prevents diseases from calcium and magnesium deficiencies

3

Improves the color and consistency of fruits

GROWTH CYCLE

Rooting

Vegetative growth

Flowering

Fruit set

Fruit enlargement

Ripening

ROYAL SYNERGY is a **perfectly balanced** liquid fertilizer containing **calcium, magnesium, and nitrogen**. It is suitable for **foliar use** and **fertigation** due to the **high purity** of the raw materials and the stable formulation.

ROYAL SYNERGY prevents magnesium and calcium **deficiencies**, **boosts vegetative growth**, and ensures the crop completes its **development cycle optimally**. It improves fruit color and resistance and aids recovery from water imbalance.

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FERTIGATION	FOLIAR*	
FRUIT TREES AND STRAWBERRIES	10 - 20 l/ha	2 - 3 l/ha	After fruit set to guarantee the best nutritional support to fruits
WINE AND TABLE GRAPE	10 - 20 l/ha	2 - 3 l/ha	Before fruit set to contrast rachis desiccation (bunch stem necrosis) and after fruit set
VEGETABLES	5 - 10 l/ha	2 - 3 l/ha	During vegetative growth also to contrast tip burn
Leaf vegetables		2 - 2.5 l/ha	
Tomato, eggplant and pepper		2 - 3 l/ha	After fruit set to contrast blossom end-rot
Cucurbits		2 - 3 l/ha	During the whole crop cycle to reduce desiccation of leaf stalk, vitrescence, blossom and leaf margin
Fennel and celery		2 l/ha	During the whole crop cycle to reduce desiccation and physiological rot
Potatoes	10 - 20 l/ha	2 - 3 l/ha	During vegetative growth and after flowering to contrast internal browning and hollow tubers
FLOWERS AND ORNAMENTALS	5 - 8 l/ha	1 - 1.5 l/ha	To strengthen stems, to increase the leaves and the coloring

*Foliar applications referred to standard water volumes

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

Total Nitrogen (N)	8.8% w/w	13.2% w/v
Nitric Nitrogen (N)	8.8% w/w	13.2% w/v
Calcium oxide (CaO) soluble in water	10.0% w/w	15.0% w/v
Magnesium oxide (MgO) soluble in water	5.0% w/w	7.5% w/v

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.5 g/ml
pH (1% w/w aqueous solution at 20°C):	6.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	830 µS/cm



GROWTH CYCLE

Rooting

Vegetative growth

Flowering

Fruit set

Fruit enlargement

Ripening

ROYAL CALFOS is a liquid fertilizer that ensures the rapid availability of nutrients in a **fully soluble** and absorbable form, featuring a **synergistic blend of phosphorus, calcium, and trace elements**. Its unique properties make it an **ideal partner for any bioactivator** during the **pre-flowering** and **fruit set** stages.

With **ROYAL CALFOS**, you'll see enhanced **bloom quality** and **fruit set**, along with a boost in **fruit coloration**. This product simultaneously provides high concentrations of calcium and phosphorus.

CROPS	APPLICATION RATES	STAGES AND RECOMMENDATIONS
	FOLIAR	
FRUIT TREES, GRAPE, CITRUS, OLIVE TREES	2,5 - 3,5 l/ha	From pre-flowering to early ripening, depending on crop needs
HORTICULTURE	1,5 - 2,5 l/ha	
EXTENSIVE CROPS	2 - 2,5 l/ha	Starting from the appearance of the 4 th leaf
NURSERIES	1,5 l/ha	
FLOWERS AND ORNAMENTALS	1,5 l/ha	After transplanting and before flowering

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

Total Nitrogen (N)	3.5% w/w	4.73% w/v
Nitric Nitrogen (N)	2.0% w/w	2.70% w/v
Ureic Nitrogen (N)	1.5% w/w	2.03% w/v
Phosphorus pentoxide (P ₂ O ₅) soluble in water	23.0% w/w	31.05% w/v
Calcium oxide (CaO) soluble in water	5.0% w/w	6.75% w/v
Boron (B) soluble in water	0.1% w/w	0.135% w/v
Molybdenum (Mo) soluble in water	0.1% w/w	0.135% w/v

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.35 g/ml
pH (1% w/w aqueous solution at 20°C):	3.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	780 µS/cm



FITONATURA
**ROYAL
CALFOS**

Ca AND P TOGETHER

KEY BENEFIT

- 1 Provides high concentrations of calcium and phosphorus simultaneously
- 2 Better flowering
- 3 Delivers immediate energy (P) for key developmental stages



04

Macroelements

Fertilizers composed primarily of highly available macroelements - *nitrogen, phosphorus, and potassium* - designed to supply essential minerals tailored to specific needs.





FITONATURA NITRO PIANTA PLUS

PROMOTES A PROMPT
VEGETATIVE RESPONSE

KEY BENEFIT

1

Meticulously balanced ratio of three nitrogen forms, ensuring immediate and prolonged benefits

2

Provides chelated microelements

3

Enhances photosynthetic activity and ensures an effective boosting action

NITRO PIANTA PLUS is a nitrogen-based fertilizer designed to support the growth and development of plants. The nitrogen in **NITRO PIANTA PLUS** is **balanced across its three forms** (nitric, ureic, and ammoniacal) to maximize efficiency in both the **short and long term**.

The addition of a **chelated microelement** complex effectively prevents potential micronutrient deficiencies. When combined with herbicides, it boosts the absorption of the active ingredient and aids plants in recovering from stress induced by the treatment.

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FERTIGATION	FOLIAR*	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	20 - 40 l/ha	2 - 4 l/ha	Vegetative restart, fruit enlargement
GREENHOUSE HORTICULTURE	20 - 40 l/ha	200 ml/hl	Vegetative growth
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	20 - 40 l/ha	2 - 3 l/ha	
NURSERIES	4 - 10 l/ha	1 - 2 l/ha	
FLOWERS AND ORNAMENTALS	12 - 20 l/ha	1 - 2 l/ha	
CEREALS	-	6 - 10 l/ha	Post-emergence; the product helps the activation of herbicides and plant protection products

*Foliar applications referred to standard water volumes

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

Total Nitrogen (N)	32.0% w/w	41.6% w/v
Nitric Nitrogen (N)	8.0% w/w	10.4% w/v
Ammoniacal Nitrogen (N)	8.0% w/w	10.4% w/v
Ureic Nitrogen (N)	16.0% w/w	20.8% w/v
Boron (B), water soluble	0.05% w/w	0.065% w/v
Copper (Cu) chelated by EDTA, water soluble	0.01% w/w	0.013% w/v
Manganese (Mn) chelated by EDTA, water soluble	0.1% w/w	0.13% w/v
Molybdenum (Mo), water soluble	0.001% w/w	0.0013% w/v
Zinc (Zn) chelated by EDTA, water soluble	0.01% w/w	0.013% w/v

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.30 g/ml
pH (1% w/w aqueous solution at 20°C):	7.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	850 µS/cm



NITRO SLOWREL is a **liquid nitrogen fertilizer** with a **slow-release system** that provides nitrogen to plants **throughout the vegetative cycle**. Its innovative formulation prevents nitrogen **leaching**, enhances protein content in **industrial crops**, and boosts reserve substances in fruit crops, especially post-harvest.

It reduces lodging, excessive vegetative growth, and imbalances, ensuring efficient nutrient use. Suitable for foliar applications, it supports plant growth, improves quality, and **corrects nitrogen deficiencies**.

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FERTIGATION	FOLIAR*	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	10 - 20 l/ha	4 - 6 l/ha	After harvest to increase plant reserves; at the beginning of vegetative growth or before flowering
HORTICULTURE	10 - 20 l/ha	2 - 3 l/ha	During vegetative growth
INDUSTRIAL CROPS	-	5 - 10 l/ha	During vegetative growth (possible association with herbicides)
ARABLE CROPS	-	5 - 10 l/ha	During tillering stage and/or flag leaf collar formation
FODDER CROPS	-	10 - 20 l/ha	At the beginning of vegetative growth (end of winter)
FLOWERS AND ORNAMENTALS	10 l/ha	1.5 - 2 l/ha	At the beginning of vegetative growth

*Foliar applications referred to standard water volumes

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

Total Nitrogen (N)	26.0% w/w	32.2% w/v
Ureic Nitrogen (N)	7.5% w/w	9.3% w/v
Nitrogen (N) from urea formaldehyde	18.5% w/w	22.9% w/v
Boron (B), water soluble	0.5% w/w	0.62% w/v
Zinc (Zn) chelated by EDTA, water soluble	0.05% w/w	0.062% w/v

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.24 g/ml
pH (1% w/w aqueous solution at 20°C):	8.5 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	20 µS/cm



FITONATURA NITRO SLOWREL

SLOW-RELEASE NITROGEN

KEY BENEFIT

- Enhances protein content in industrial crops
- Prevents nitrogen leaching
- Boosts reserve substances in fruit crops





FITONATURA RUNNER LINE

NPK WITH MICROELEMENTS
FOR A WIDE RANGE OF APPLICATIONS



RUNNER is a line of versatile water-soluble products, characterised by a formula and ratio of nitrogen, phosphorus and potassium, carefully calculated to meet every agronomic need, ranging from the post-transplant phase to ripening.

The water-soluble products in the **RUNNER LINE** are characterised by highly-soluble microcrystalline formulas and by high purity, which increases their efficacy.

KEY BENEFIT



Microcrystalline form



Formulation: Enriched with microelements for maximum quality

RECOMMENDED USAGE

- **Compatibility:** Compatible with most herbicides and pesticides commonly used in agriculture.

» **Exceptions:**

RUNNER 8-7-40+2+micro, RUNNER 12-9-34+2+micro and RUNNER 20-5-10+2+micro: Avoid mixing with alkaline and mineral oils.

RUNNER 20-20-20+micro: Avoid mixing with calcium, and zinc.

RUNNER 10-50-10+micro: Avoid mixing with alkaline products, mineral oils, calcium, and zinc.

CROPS	APPLICATION RATES	STAGES AND RECOMMENDATIONS
	FERTIGATION	
FRUIT TREES, GRAPE, CITRUS, OLIVE TREES	10 - 30 kg/ha	According to crop needs and depending on phenological stage
GREENHOUSE HORTICULTURE	2 - 6 kg/1000 m ²	
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	10 - 30 kg/ha	
NURSERIES	10 - 20 kg/ha	Every 7 - 12 days
FLOWERS AND ORNAMENTALS	15 - 20 kg/ha	

*Foliar applications referred to standard water volumes

COMPOSITION % w/w

Runner	N-tot	N-nit	N-amm	N-ur	P ₂ O ₅ sol in H ₂ O	K ₂ O sol in H ₂ O	MgO sol in H ₂ O
20-20-20+micro	20	4.4	3	12.6	20	20	-
20-5-10-+2+micro	20	7	13	-	5	10	2
12-9-34+2+micro	12	10	2	-	9	34	2
10-50-10+micro	10	1.2	8.8	-	50	10	-
8-7-40+2+micro	8	7	1	-	7	40	2

Microelements in "Runner Line": B 0.01 - Fe EDTA 0.02 - Mn 0.01 - Mo 0.001 - Zn 0.002

PHYSICAL AND CHEMICAL PROPERTIES

Runner	Water solubility at 20°C (g/l)	pH (1% w/w aqu. sol.)	Electrical conductivity 1 g/l aqu. sol. (µS/cm)
20-20-20+micro	360	6.0 ± 0.5	840
20-5-10-+2+micro	375	6.0 ± 0.5	1600
12-9-34+2+micro	395	6.0 ± 0.5	1300
10-50-10+micro	390	5.5 ± 0.5	950
8-7-40+2+micro	395	6.0 ± 0.5	1300

05

Mesoelements

Calcium and Sulphur are essential mesoelements in plant nutrition.

For this reason, Fitonatura provides a diverse range of products, available in both liquid and powder forms, to meet the needs of agricultural enterprises.





FITONATURA **ESSELIFE**

THE BEST CHOICE TO SUPPLY SULPHUR TO THE CROPS

KEY BENEFIT

1

Sulphur supports essential metabolic processes and aromatic compound synthesis

2

Provides N, K, S, and microelements in readily assimilable form

3

Enhances oil yield in oil crops and improves flour strength in cereals

ESSELIFE is a formulation that supplies **N, K, S**, and **microelements** in a readily assimilable form.

The presence of sulphur as thiosulphate supports the **absorption of essential elements** involved in metabolic processes, such as the synthesis of **sulfur-containing amino acids** responsible for producing aromatic compounds like isothiocyanates.

In oil crops, it **enhances oil yield**, while in cereals, it improves the flour **strength index (W)**.

CROPS	APPLICATION RATES	STAGES AND RECOMMENDATIONS
	FOLIAR*	
VEGETABLES CROPS (bulbous, crucifers, leaf-beets, carrots)	2.5 - 6 l/ha	Post-transplant or from emergence
CEREALS, RAPESEED, GRAIN LEGUMES, FORAGE LEGUMES	2.5 - 6 l/ha	Cereals: from node 2 at least 2 cm above node 1 (BBCH 32) to watery ripe (BBCH 71). Rapeseed and grain legumes at the beginning of flowering.
ORNAMENTALS AND FLORICULTURE	100 - 150 ml/hl	During vegetative growth, in case of chlorosis and high salinity

*Foliar applications referred to standard water volumes

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

Total Nitrogen (N)	11.0% w/w	14.85% w/v
Ammoniacal Nitrogen (N)	9.0% w/w	12.15% w/v
Ureic Nitrogen (N)	2.0% w/w	2.7% w/v
Potassium oxide (K₂O) water soluble	5.0% w/w	6.75% w/v
Sulfur trioxide (SO₃) water soluble	57.0% w/w	76.95% w/v
Boron (B) water soluble	0.04% w/w	0.054% w/v
Iron (Fe), chelated by DTPA, water soluble	0.02% w/w	0.027% w/v
Zinc (Zn), chelated by EDTA, water soluble	0.04% w/w	0.054% w/v

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.35 g/ml
pH (1% w/w aqueous solution at 20°C):	7.5 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	1150 µS/cm



PIANTA CALCIO 40% is a **high-performance** water-soluble calcium fertilizer in **microcrystalline form**. The calcium in the product is complexed with **formate**, unlike other calcium sources, making it **fully soluble and readily available** to plants.

This purity makes it ideal for application during **any phenological stage**.

It is easily absorbed by the roots and **transported acropetally**, while foliar applications allow the product to penetrate leaves and **accumulate in the fruit**.

PIANTA CALCIO 40% is the ideal solution to combat calcium deficiencies and prevent physiopathologies such as apple bitter pit and tomato blossom end rot.

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FERTIGATION	FOLIAR*	
FRUIT TREES AND GRAPES	4 - 8 kg/ha	250 - 350 g/hl	From fruit set every 15 days and in stress conditions
HORTICULTURE	0.5 - 1 kg/1000 m ²	2 - 3 kg/ha	Starting from fruit set every 15 days
FLOWERS AND ORNAMENTALS	0.5 - 1 kg/1000 m ²	150 - 200 g/hl	Every 15 - 20 days and in stress conditions
SOILLESS CROPS	Use the product for the preparation of the stock solution in order to increase calcium concentration and dilute in irrigation water		

*Foliar applications referred to standard water volumes

COMPOSITION % w/w

Total calcium oxide (CaO)	40.0% w/w
Calcium oxide (CaO) water soluble	40.0% w/w

PHYSICAL AND CHEMICAL PROPERTIES

Water solubility at 20°C:	130 g/l
pH (1% w/w aqueous solution at 20°C):	7.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	1350 µS/cm



FITONATURA
**PIANTA
CALCIO 40%**

**THE TOP PERFORMING
CALCIUM**

KEY BENEFIT

- 1 High-performance water-soluble calcium fertilizer in microcrystalline form
- 2 Calcium applied to the leaves manages to accumulate at fruit level
- 3 Complexed with formate





FITONATURA ISICAL EASY CALCIUM

KEY BENEFIT

1

High solubility and purity of calcium chloride formulation

2

Prevents physio-pathologies like apple bitter pit and tomato blossom end-rot

3

Enhances fruit shelf life, firmness, and coloration

ISICAL is a liquid fertilizer formulated with **calcium chloride**. Its key features include the high solubility of calcium and the exceptional **purity of the formulation**.

It is suitable for addressing **calcium deficiencies** and provides effective preventive action against physio-pathologies like apple bitter pit and tomato blossom end-rot.

Additionally, **ISICAL** enhances fruit **shelf life, firmness**, and promotes improved **coloration**.

CROPS	APPLICATION RATES	STAGES AND RECOMMENDATIONS
	FOLIAR*	
APPLES AND PEARS	700 - 1000 ml/hl	Starting from 15 days after fruit-set, at least 5 applications
STONE FRUITS, GRAPES, CITRUS, OLIVE TREES	700 - 1000 ml/hl	Starting from 15 days after fruit-set, 2 - 4 applications
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	400 - 600 ml/hl	Before flowering and before fruit enlargement
CANNING TOMATO	600 - 800 ml/hl	Starting from 7 days after 1st cluster fruit set, make 4 applications
GREENHOUSE HORTICULTURE	250 - 400 ml/hl	Before flowering and before fruit enlargement
NURSERIES	250 - 400 ml/hl	

FERTIGATION: Use the product at a maximum concentration of 0,1 - 0,2%

*Foliar applications referred to standard water volumes

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

Calcium oxide (CaO), water soluble	16.8% w/w	22.2% w/v
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PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.32 g/ml
pH (1% w/w aqueous solution at 20°C):	7.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	850 µS/cm



CALGO is a liquid fertilizer that simultaneously provides **calcium** and **nitrogen** to crops. It effectively addresses calcium deficiencies while promoting plant's vegetative development.

Furthermore, its liquid formulation and the **high solubilization of nutritinoal elements** make it ideal for **use in fertigation**, soilless cultivation, and foliar applications.

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FERTIGATION	FOLIAR*	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	15 - 30 l/ha	2 - 4 l/ha	Vegetative growth; fruit enlargement
GREENHOUSE HORTICULTURE	15 - 30 l/ha	1.5 - 2.5 l/ha	
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	15 - 30 l/ha	2 - 4 l/ha	
NURSERIES	10 l/ha	1.5 - 2.5 l/ha	After transplanting and before flowering
FLOWERS AND ORNAMENTALS	10 - 15 l/ha	1.5 - 2.5 l/ha	

*Foliar applications referred to standard water volumes

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

Total Nitrogen (N)	8.5% w/w	11.9% w/v
Nitric Nitrogen (N)	8.5% w/w	11.9% w/v
Calcium oxide (CaO), water soluble	15% w/w	21.0% w/v

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.40 g/ml
pH (1% w/w aqueous solution at 20°C):	6.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	690 µS/cm



FITONATURA **CALGO**

**BALANCED CALCIUM
AND NITROGEN**

KEY BENEFIT

- 1 Provides calcium and nitrogen to address deficiencies and support growth
- 2 Suitable for fertigation, soilless, and foliar applications
- 3 Promotes efficient nutrient absorption and vegetative development





PIANTA MAGNESIO

**HIGH PURITY
Mg FERTILIZER**

KEY BENEFIT

1

Boosts chlorophyll production and nutrient absorption

2

Prevents deficiencies with chelated microelements

3

Highly soluble and pure for efficient application

PIANTA MAGNESIO is a **high purity** powder fertilizer containing **magnesium**, sulfur and chelated micronutrients.

Magnesium is an important element for the **formation of chlorophyll** and the **synthesis of sugar and pectins** while sulfur has a primary role on proteins synthesis; the formulation is completed by chelated micronutrients that prevent nutritional deficiencies and promote the absorption of magnesium.

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FERTIGATION	FOLIAR*	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	15 - 40 kg/ha	2.5 - 4.5 kg/ha	Before and after flowering
GREENHOUSE HORTICULTURE	2.5 - 10 kg/1000 m ²	250 g/hl	
HORTICULTURE AND INDUSTRIAL CROPS IN OPEN FIELD	15 - 40 kg/ha	2 - 3 kg/ha	During vegetative growth and fruit enlargement
FLOWERS	2.5 - 10 kg/1000 m ²	150 - 250 g/hl	During vegetative growth
SOILLESS CROPS	Use the product at the maximum concentration of 15 - 20% for the preparation of the stock solution and dilute in irrigation water		

*Foliar applications referred to standard water volumes

COMPOSITION % w/w

Magnesium oxide (MgO) water soluble	15.5% w/w
Sulfur trioxide (SO₃) water soluble	31.0% w/w
Boron (B) water soluble	0.05% w/w
Copper (Cu), chelated by EDTA, water soluble	0.1% w/w
Manganese (Mn), chelated by EDTA, water soluble	0.1% w/w
Zinc (Zn), chelated by EDTA, water soluble	0.15% w/w

PHYSICAL AND CHEMICAL PROPERTIES

Water solubility at 20°C:	470 g/l
pH (1% w/w aqueous solution at 20°C):	6.5 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	845 µS/cm



Suitable for
**ORGANIC
PRODUCTION**



Product suitable for use
in Organic Farming
in accordance with Regulations
EU n° 2018/848
and 2021/1165

Controlled by ECOCERT SAS



06

Microelements

The line features highly assimilable and bioavailable products for plants, designed to prevent and address microelement deficiencies through foliar applications and fertigation.





PIANTA BOR

HIGH BIOAVAILABILITY OF BORON

KEY BENEFIT

1

Enhances pollen fertility, flowering, and fruit set

2

Prevents and treats physio-pathologies in various crops

3

Effective in alkaline, calcareous, or dry soils

PIANTA BOR is a boron-based fertilizer containing readily **available ethanolamine**, essential for boosting production and supporting crops during critical growth stages. It enhances **pollen fertility**, promotes **flowering**, improves **fruit set**, and increases overall yield and **crop quality**.

Particularly effective in alkaline, calcareous, or dry **soils**, it prevents and treats **physio-pathologies** like grape millerandage, sugar beet heart rot, olive bunch reduction, cereal spike deformities and poor fruit setting in horticultural crops.

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FOLIAR*	FERTIGATION	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	1,5 l/ha	2 - 5 l/ha	Before flowering, during fruit set and after harvest
GREENHOUSE HORTICULTURE	100 ml/hl	2 - 4 l/ha	Before flowering, during ripening and in case of boron deficiency
HORTICULTURE IN OPEN FIELD, CEREALS AND INDUSTRIAL CROPS	1 - 1,5 l/ha	2 - 5 l/ha	
FLOWERS AND ORNAMENTALS	50 ml/hl	1 - 2 l/ha	Before flowering and in case of boron deficiency

*Foliar applications referred to standard water volumes

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

Boron (B) water soluble	11.0% w/w	15.0% w/v
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PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.36 g/ml
pH (1% w/w aqueous solution at 20°C):	8.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	220 µS/cm



Product suitable for use
in Organic Farming
in accordance with Regulations
EU n° 2018/848
and 2021/1165
Controlled by ECOCERT SAS

PIANTA MIX is a blend of **oligoelements** and **magnesium** that enhances plant metabolic efficiency and addresses nutritional deficiencies such as foliar chlorosis and poor fruit set. Fully soluble, it provides an **immediate response**, improving crop **growth and quality**.

Designed for horticulture, fruit, and oilseed crops, it is compatible with most herbicides and pesticides, except alkaline and mineral oils. Test on sensitive crops before full application and avoid use on fruit trees during **flowering**.

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FERTIGATION	FOLIAR*	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	3 - 5 kg/ha	1 - 2 kg/ha	At the beginning of vegetative growth, in case of deficiency and after harvest
GREENHOUSE HORTICULTURE	3 - 5 kg/ha	100 g/hl	At the beginning of vegetative growth and in case of deficiency
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	3 - 5 kg/ha	1 - 2 kg/ha	

*Foliar application referred to standard water volumes

COMPOSITION % w/w

Magnesium oxide (MgO) water soluble	9.0% w/w
Sulfur trioxide (SO₃) water soluble	27.0% w/w
Boron (B) soluble in water	0.5% w/w
Copper (Cu) chelated by EDTA soluble in water	1.0% w/w
Iron (Fe) chelated by EDTA soluble in water	4.0% w/w
Manganese (Mn) chelated by EDTA soluble in water	4.0% w/w
Molybdenum (Mo) soluble in water	0.1% w/w
Zinc (Zn) chelated by EDTA soluble in water	2.0% w/w

PHYSICAL AND CHEMICAL PROPERTIES

Water solubility at 20°C:	250 g/l
pH (1% w/w aqueous solution at 20°C):	3.5 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	850 µS/cm



**PIANTA
MIX**

**A BALANCED COMPLEX
OF CHELATED MICROELEMENTS
AND MAGNESIUM**

KEY BENEFIT

- 1 Provides a balanced mix of microelements and macronutrients
- 2 Enhances nutrient availability and plant metabolic efficiency
- 3 Supports overall plant health and growth with tailored formulations





PIANTA IRON

PREVENTS AND CURES IRON DEFICIENCIES

KEY BENEFIT

1

Contains 80% highly stable and bioavailable EDDHA iron in the ortho-ortho form

2

Effectively prevents and treats ferric chlorosis

PIANTA IRON is a water-soluble **microgranular** mineral fertilizer containing **EDDHA chelated iron**, specifically designed to prevent and treat **ferric chlorosis**.

With 80% of its iron in the **highly stable** and bioavailable **ortho-ortho** form, it delivers prolonged and effective action.

This composition ensures excellent **performance**, even in soils with a strong alkaline reaction.

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FERTIGATION		
FRUIT TREES	Young trees	15 - 25 g/plant	Apply in early spring, at the beginning of sprouting
	Producing trees	25 - 50 g/plant	
	Ferric chlorosis control	50 - 100 g/plant	
CITRUS, OLIVE TREES	Young trees	15 - 25 g/plant	Apply in spring or early summer
	Producing trees	25 - 50 g/plant	
	Ferric chlorosis control	50 - 100 g/plant	
GRAPES	Young vines	5 - 15 g/plant	Apply in early spring, at the beginning of sprouting
	Grapevine	10 - 25 g/plant	
HORTICULTURE AND ORNAMENTALS	Beginning of seasonal growth	1 - 2 g/m ²	Apply weekly after transplanting or from the beginning of cultivation
	Full growth	2 - 4 g/m ²	
NURSERIES	2 - 4 g/m ²		

SOILLESS CROPS: 150 - 300 g/hl for the preparation of the stock solution

COMPOSITION % w/w

Total Iron (Fe)	6.0% w/w
Iron (Fe), chelated by EDDHA, water soluble	6.0% w/w
Iron (Fe), chelated by ortho-ortho EDDHA, water soluble	4.8% w/w

PHYSICAL AND CHEMICAL PROPERTIES

Water solubility at 20°C:	60 g/l
pH (1% w/w aqueous solution at 20°C):	9.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	550 µS/cm



Product suitable for use in Organic Farming in accordance with Regulations EU n° 2018/848 and 2021/1165
Controlled by ECOCERT SAS

PIANTA MOLYB is a liquid fertilizer rich in **molybdenum and phosphorus**, providing plants with bioavailable nutrients for rapid absorption and improved physiological functions. It supports **nitrogen-fixing bacteria** in legumes and reduces nitrate levels in leafy vegetables by **promoting nitrate reductase synthesis**.

The phosphorus content delivers **readily available energy**, aiding processes that demand high energy. Targeted applications help control **excessive vegetative growth**, enhance **pollen fertility**, and improve fruit set, making it versatile for optimizing crop health and productivity.

CROPS	APPLICATION RATES	STAGES AND RECOMMENDATIONS
	FOLIAR*	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	500 - 1000 ml/ha	Before and after flowering; in case of vegetative excess
GREENHOUSE HORTICULTURE	50 ml/ha	Before flowering, in case of vegetative excess and in case of too much nitrates in the leaves; on legumes at 4th - 6th leaf to promote root tubercle formation
HORTICULTURE IN OPEN FIELD AND INDUSTRIAL CROPS	500 ml/ha	
NURSERIES	200 ml/ha	In case of molybdenum deficiencies
FLOWERS AND ORNAMENTALS	150 - 250 ml/ha	In case of molybdenum deficiencies and before flowering
SOILLESS CROPS: use the product at the maximum concentration of 15 - 20% for preparing the mother solution and dilute in irrigation water		
*Foliar applications referred to standard water volumes		

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

Molybdenum (Mo), water soluble	12.0% w/w	17.2% w/v
Total Phosphorus pentoxide (P ₂ O ₅)	12.0% w/w	17.2% w/v

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.43 g/ml
pH (1% w/w aqueous solution at 20°C):	6.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	270 µS/cm



PIANTA
MOLYB

HIGH BIOAVAILABILITY
OF Mo

KEY BENEFIT

- Enhances nitrogen metabolism by activating the nitrate reductase enzyme
- Supports nitrogen-fixing bacteria
- Formula enriched with phosphorus, providing a stop signal to vegetative growth





PIANTA HUMUS

LIQUID HUMATES

KEY BENEFIT

1

Enhances soil structure in areas poor of organic matter

2

Boosts water retention capacity

3

Mitigates salinity effects and promotes healthier soil conditions

PIANTA HUMUS is an organic liquid fertilizer made of **humic** and **fulvic acids** derived from **leonardite**.

Applied to soils poor in organic matter, it improves its structure, increases **water retention** capacity and reduces the negative **effects of salinity**.

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FOLIAR	FERTIGATION	
FRUIT TREES AND GRAPES	80 - 120 ml/hl	20 - 40 l/ha	At vegetative start; pre-flowering; fruit enlargement
HORTICULTURE*	80 - 120 ml/hl	2 - 4 l/1000 m ²	After transplantation; vegetative growth
INDUSTRIAL CROPS	80 - 120 ml/hl	20 - 40 l/ha	2 - 3 applications during vegetative growth every 15 days
ORNAMENTALS AND NURSERIES*	80 - 100 ml/hl	1 - 1,5 l/1000 m ²	During vegetative growth every 10 - 15 days
FLOWERS*	80 - 100 ml/hl	1 - 1,5 l/1000 m ²	After transplantation, applications every 10 - 15 days

In fertigation apply the product at the concentration of 2 - 3‰

*Doses referred to the entire crop cycle, they may be split in several applications

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

Total potassium oxide (K_2O)	8.0% w/w	9.2% w/v
Potassium oxide (K_2O) water soluble	8.0% w/w	9.2% w/v
Organic Carbon (C_{org})	7.5% w/w	8.6% w/v
Dry matter	25.0% w/w	

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.15 g/ml
pH (1% w/w aqueous solution at 20°C):	10.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	100 µS/cm



PIANTA ZINC is a liquid formulation based on **zinc complexed with lignosulfonic acid (LS)**, which is derived from lignin and offers key biological benefits. LS exhibits a strong affinity for **plant tissues**, easily penetrating cells to **efficiently transport zinc**.

Inside the plant, the **metal-LS complex** naturally dissociates without requiring energy, while lignosulfonic acids contribute to synthesizing **energy compounds** such as ATP, NADH, and FADH₂.

Zinc plays a vital role in **enhancing photosynthetic efficiency**, stimulating **auxin synthesis**, and **mitigating oxidative stress** caused by intense radiation. **PIANTA ZINC** is also highly compatible with agrochemical products and fertilizers, improving the **adhesiveness** of sprayed solutions due to its excellent plant affinity.

CROPS	APPLICATION RATES	STAGES AND RECOMMENDATIONS
	FOLIAR*	
FRUIT TREES, GRAPES, CITRUS, OLIVE	1 - 2 l/ha	At the vegetative re-start, before flowering and after harvest. During vegetative growth and fruit enlargement
HORTICULTURE	1 - 1.2 l/ha	At the beginning and during vegetative growth
CEREALS AND INDUSTRIAL CROPS	1 - 2 l/ha	At the 4 th leaf and after tillering
NURSERIES	0.4 - 0.8 l/ha	By the 4 th leaf
FLOWERS AND ORNAMENTALS	1 - 1.2 l/ha	At the beginning and during vegetative growth

*Foliar applications referred to standard water volumes

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

Zinc (Zn) soluble in water	10.0% w/w	13.5% w/v
Total Zinc (Zn) complexed	8.0% w/w	10.8% w/v

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.35 g/ml
pH (1% w/w aqueous solution at 20°C):	7.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	350 µS/cm



PIANTA
ZINC

HIGH BIOAVAILABILITY
OF ZINC

KEY BENEFIT

- 1 Efficiently delivers zinc to plants through lignosulfonic acid (LS) for improved absorption
- 2 Boosts photosynthesis, auxin synthesis, and reduces oxidative stress
- 3 Compatible with agrochemicals, enhancing spray solution adhesiveness



07

Water&Soil conditioner

Fitonatura's line of water and soil conditioners features fertilizers specifically designed to adjust soil and water pH, utilizing a meticulously crafted formula.





pH FIX+

**pH REGULATOR WITH
WETTING ACTION**

KEY BENEFIT

1

Acidifies water to enhance treatment efficacy

2

Cleans nozzles and prevents clogs

3

High wetting and strong adhesive properties

pH FIX+ is a liquid fertilizer specially designed to improve the efficacy of the solutions normally used in foliar treatments.

pH FIX+ acidifies the water used to prepare the mixtures applied onto leaves and it improves the solubilization and homogenization of the used formulations, increasing their adhesion and passage into leaves, carrying out at the same time a nourishing and energetic action.

Thanks to its new formulation, **pH FIX+** has both high wetting effect and strong adhesive effect, allowing the nebulized drops to occupy a larger area on the irrigated parts and to better adhere to the leaves. **pH FIX+** can cleanse fertirrigation systems in order to avoid the obstruction of the nozzles or the formation of calcareous concretions in the hoses; its acidifying action also prevents alkaline hydrolysis.

APPLICATION RATES

The doses depend on water hardness and on desired pH level.

Added to water, pH FIX+ produces a color change that, with the help of the color scale present on the label, allows to visually measuring the final pH of the solution.

Usually, the final doses is between 80 and 100 ml/ml for reaching pH = 5.5

The product can be poured directly in the atomizer or other tanks used for the application.

For foliar spraying as fertilizer, we suggest 150 - 200 ml/hl.

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

Total Nitrogen (N)	3.0% w/w	3.45% w/v
Ureic Nitrogen (N)	3.0% w/w	3.45% w/v
Phosphorus pentoxide (P ₂ O ₅) soluble in water	18.0% w/w	20.7% w/v

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.15 g/ml
pH (1% w/w aqueous solution at 20°C):	2.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	700 µS/cm



IDROSOIL is a mineral fertilizer rich in **sulfur**, offering a strong acidifying effect. It performs a reducing chemical action in the soil, increasing the availability of nutrients that have become **insoluble** due to limestone or salts, and therefore inaccessible to plants. **IDROSOIL** alleviates **nutritional deficiencies and chlorosis**, while correcting soil alkalinization caused by **salinity**.

In addition to its soil-improving properties, the formula supplies plants with nitrogen, potassium, ammonium thiosulfate, and essential microelements. When applied consistently during the early growth stages of crops, it **enhances the effectiveness of fertilization**.

CROPS	APPLICATION RATES	STAGES AND RECOMMENDATIONS
	FERTIGATION	
FRUIT TREES, GRAPES, CITRUS, OLIVE TREES	25 - 50 l/ha	At the beginning of vegetative growth and during fruit enlargement
GREENHOUSE AND OPEN FIELD HORTICULTURE	25 - 50 l/ha	After transplant, during vegetative growth and during fruit enlargement
NURSERIES AND ORNAMENTALS	20 - 30 l/ha	After transplant
FLOWERS	20 - 30 l/ha	During vegetative growth, in case of chlorosis and high salinity

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

Total Nitrogen (N)	11.0% w/w	14.85% w/v
Ammoniacal Nitrogen (N)	9.0% w/w	12.15% w/v
Ureic Nitrogen (N)	2.0% w/w	2.7% w/v
Potassium oxide (K ₂ O) soluble in water	5.0% w/w	6.75% w/v
Sulfur trioxide (SO ₃) soluble in water	57.0% w/w	76.95% w/v
Boron (B) soluble in water	0.04% w/w	0.054% w/v
Iron (Fe) chelated by DTPA soluble in water	0.02% w/w	0.027% w/v
Zinc (Zn) chelated by EDTA soluble in water	0.04% w/w	0.054% w/v

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.35 g/ml
pH (1% w/w aqueous solution at 20°C):	7.5 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	1150 µS/cm



FITONATURA **IDROSOIL**

SOIL ACIDIFYING EFFECT

KEY BENEFIT

- Enhances nutrient availability by breaking down insoluble compounds caused by limestone or salts
- Corrects soil alkalinization and salinization, reducing nutritional deficiencies and chlorosis
- Boosts fertilization efficiency, providing essential nutrients during early crop growth





FITONATURA ZEROSALT

SOIL SALINITY CORRECTOR

KEY BENEFIT

1

Replaces sodium with calcium and magnesium cations

2

Improves soil structure by enhancing aeration and drainage

3

Boosts fertility for better plant growth

ZEROSALT is a liquid mineral fertilizer tailored for ground application in **saline or sodic soils**.

The product replaces the excess of saline particles **retained by the colloids of the soil** (particularly sodium) with calcium and magnesium ions, essential elements for plant growth; moreover, it improves **aeration** and the **drainage** of excess water achieving better fertility and **better soil structure**.

CROPS	APPLICATION RATES		STAGES AND RECOMMENDATIONS
	FLOW FOLIAR	FERTIGATION	
SOIL SALINITY CORRECTION	35 - 50 l/ha	20 - 40 l/ha	1 st application
	15 - 30 l/ha	10 - 25 l/ha	Following applications, every 10 - 20 days
CORRECTION OF Ca AND Mg DEFICIENCIES	1,5 - 4 l/1000 m ²		At least 2 applications

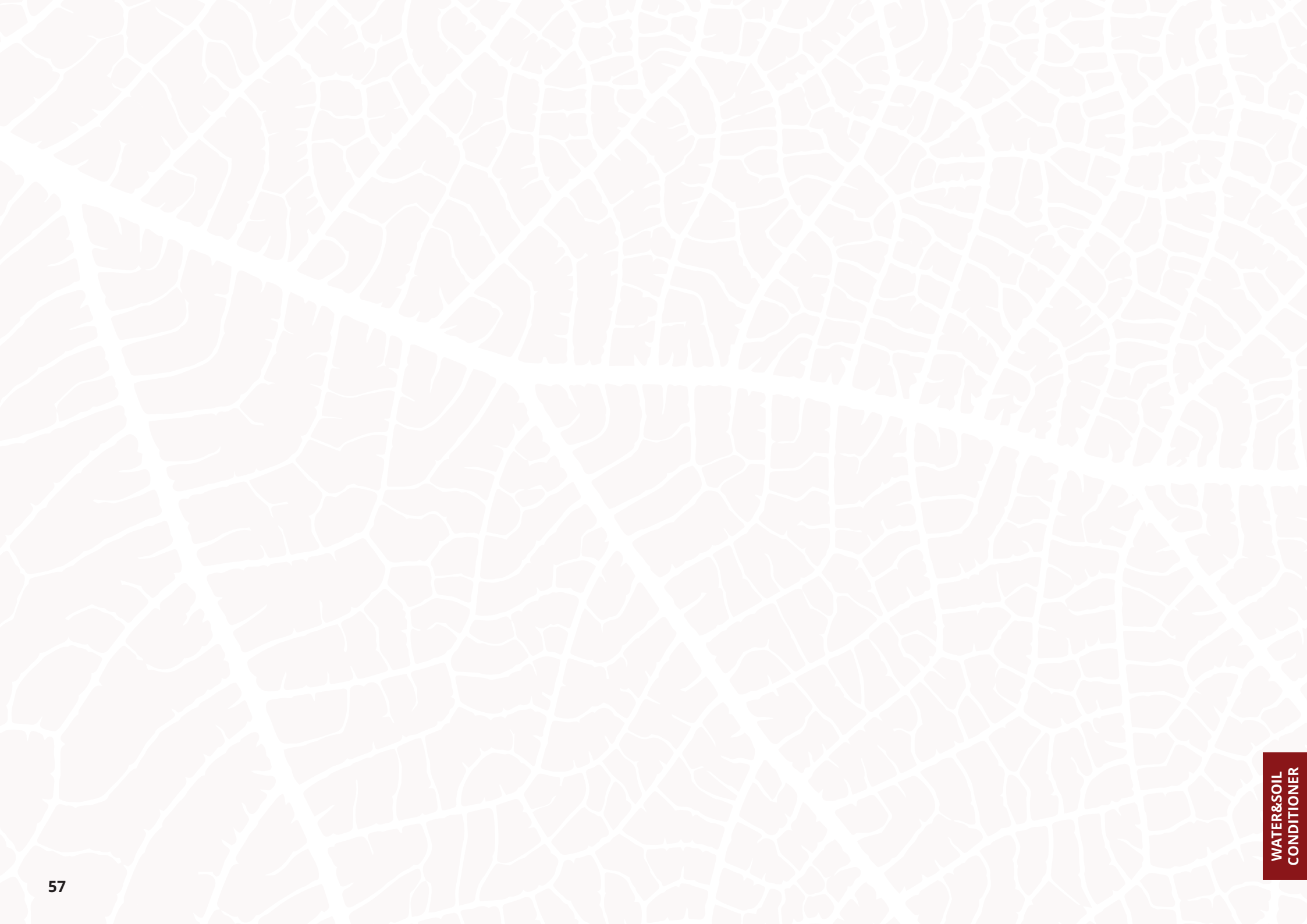
COMPOSITION % w/w (equivalent to % w/v at 20°C)

Calcium oxide (CaO) soluble in water	9.0% w/w	10.8% w/v
Magnesium oxide (MgO) soluble in water	1.0% w/w	1.2% w/v

PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C:	1.20 g/ml
pH (1% w/w aqueous solution at 20°C):	5.0 ± 0.5 u. pH
E.C. (1 g/l in deionized water at 20°C):	450 µS/cm





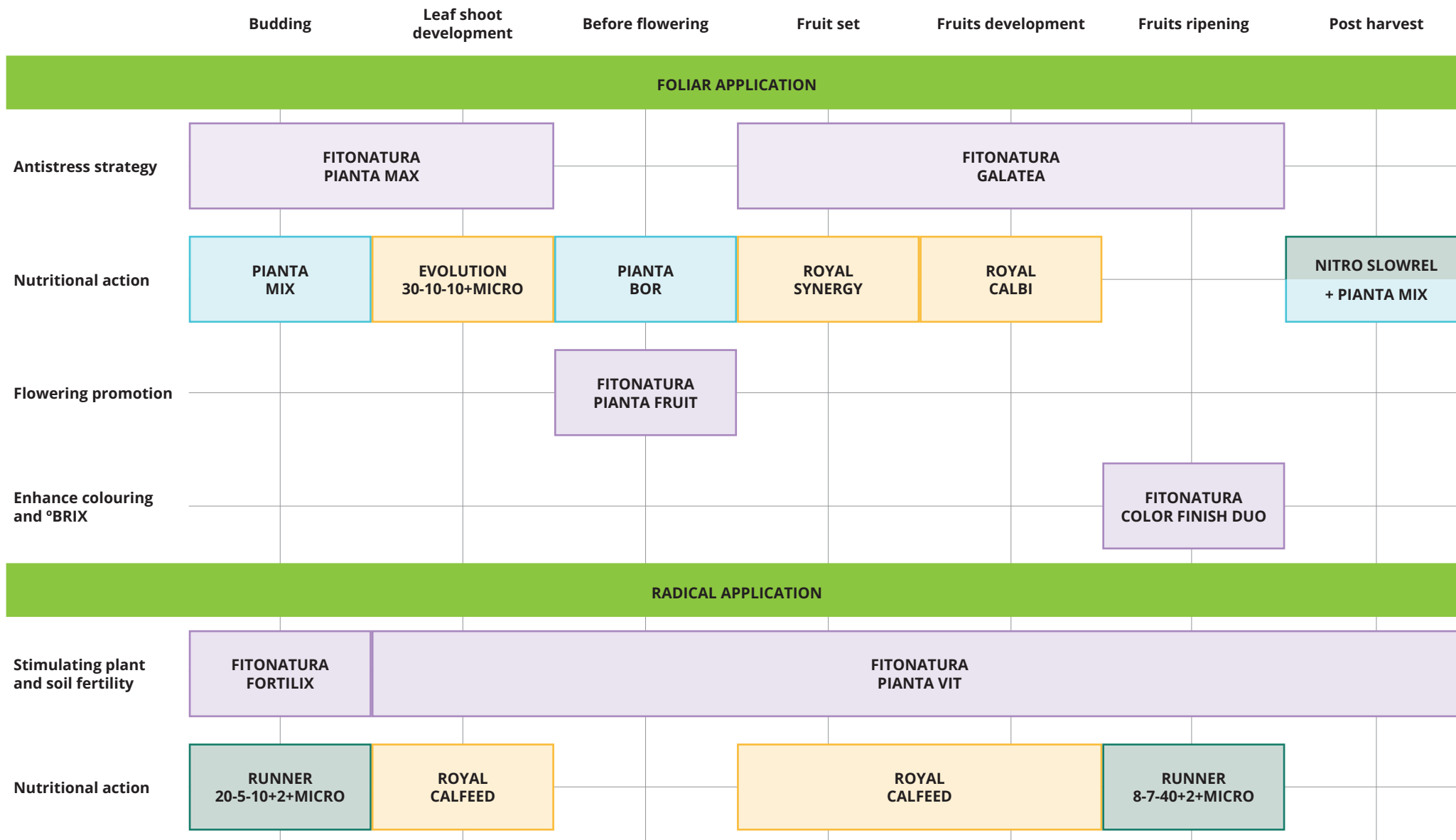
ALPHABETICAL INDEX

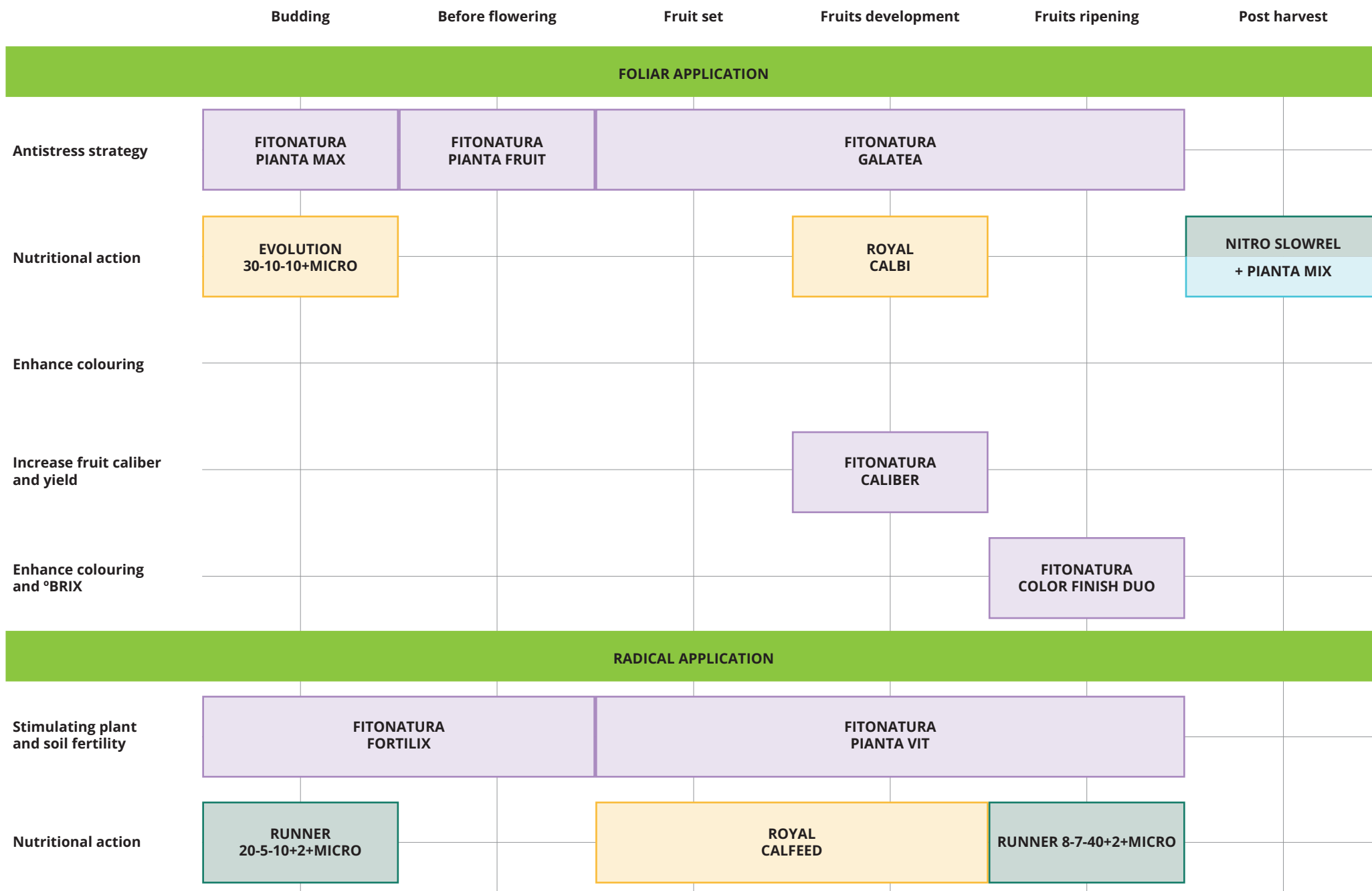
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	CALGO		p. 41		PIANTA HUMUS		p. 50
	FITONATURA CALIBER		p. 15		PIANTA MAGNESIO		p. 42
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NOTE

NOTE

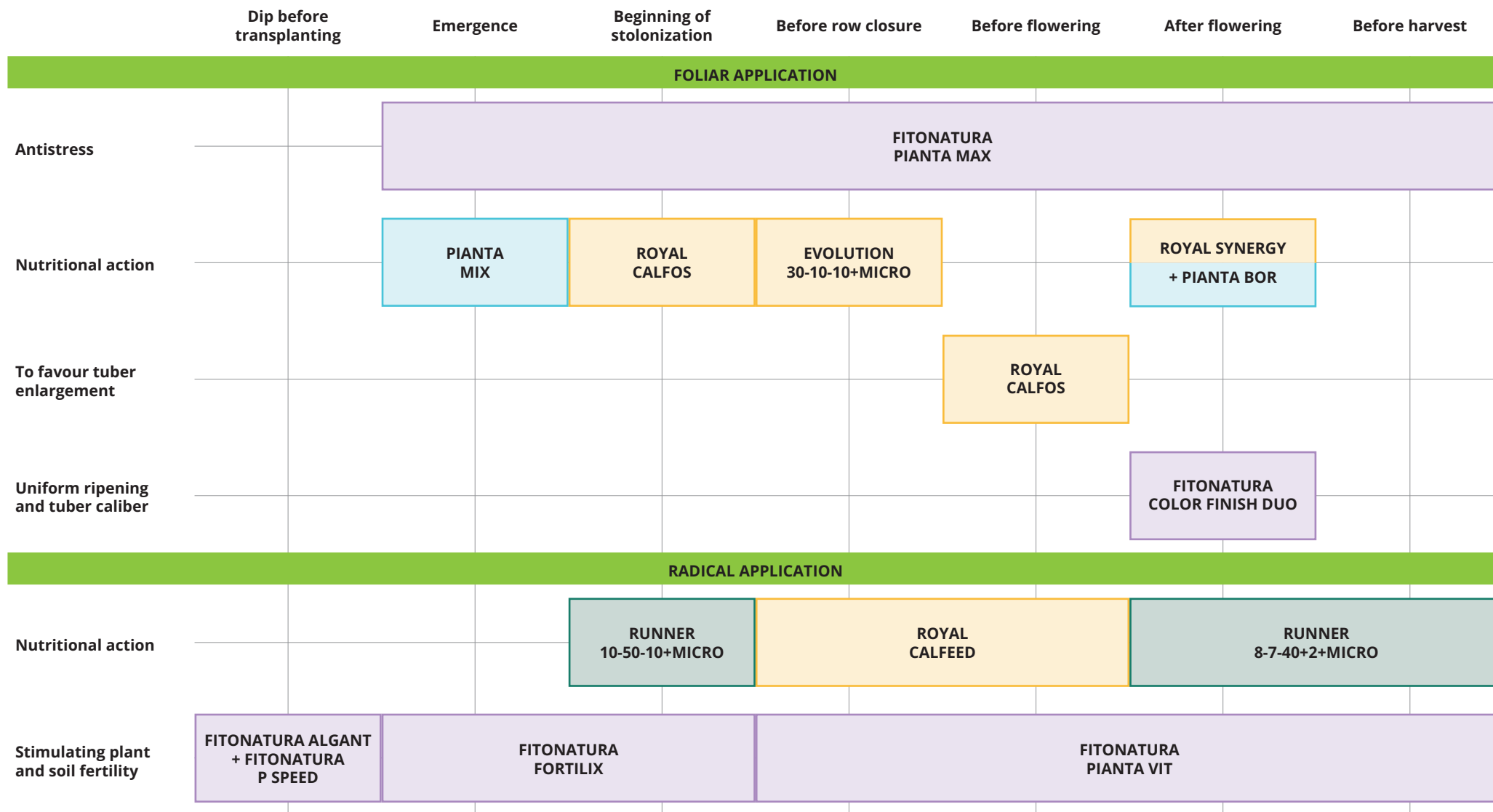
NOTE







	Dips before transplanting	Transplanting	Vegetative growth	Before first cluster flowering	Fruit set cluster	First cluster fruits development	First cluster fruits ripening	Maturation
FOLIAR APPLICATION								
Antistress strategy			FITONATURA PIANTA MAX		FITONATURA PIANTA MAX			
Nutritional action			EVOLUTION 30-10-10+MICRO + PIANTA MAGNESIO	PIANTA BOR	ROYAL SYNERGY	PIANTA CALCIO 40%	EVOLUTION 3-5-40+3+MICRO	
To overcome transplanting stress		FITONATURA ALGANT + FITONATURA P SPEED						
Flowering promotion				FITONATURA PIANTA FRUIT				
Enhance colouring and °BRIX								FITONATURA COLOR FINISH DUO
RADICAL APPLICATION								
Nutritional action				RUNNER 20-20-20+MICRO	RUNNER 10-50-10+MICRO	ROYAL CALFEED		RUNNER 8-7-40+2+MICRO
Stimulating plant and soil fertility	FITONATURA ALGANT + FITONATURA P SPEED	FITONATURA PIANTA GO	FITONATURA FORTILIX		FITONATURA PIANTA GO		FITONATURA PIANTA VIT	
To cure and prevent magnesium deficiency				PIANTA MAGNESIO			PIANTA MAGNESIO	





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The information provided in this catalog is primarily for reference. When using the products, carefully follow the instructions and warnings on the label.

Fitonatura declines any responsibility for consequences resulting from improper use of the products.



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