

SOWY

Liquid fertilizer of high concentration of amino acids







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CHARACTERISTICS

SOWY is a product of natural origin, with a high content of free amino acids, derived from vegetable matter.

Composed of amino acids that the plant uses to satisfy its protein needs, with an important energy saving, acting as an effective biostimulant during the rooting, sprouting, flowering, fruit setting and fruit development stages.

ACTIONS

- FAVORIZES RADICULAR DEVELOPMENT
- IMPROVES THE ABSORPTION AND TRANSPORTATION OF NUTRIENTS
- INDUCES A BETTER POLLINATION AND FLOWERING
- GOOD SPROUTING
- FRUITS OF GREATER QUALITY

COMPOSITION %w/w

2
2
5
4
3





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SOWY OBTAINED BY ENZYMATIC SYNTHESIS

AMINO ACIDS OBTAINED BY ACID OR ALKALINE HYDROLYSIS

20 essential amino acids are uptaken.	16-18 amino acids are obtained.
All the amino acids are in the L-form (natural form) and are rapidly and easily absorbed by the plants.	Not all the amino acids are in the L-amino acids, some are in D-shape, which cannot be absorbed.
No cycling of Glutamates, which is important for metabolism energy.	Cycling of Glutamates.
No destruction of Asparagine, which is involved in plant respiration.	Destruction of Asparagine.
Tryptophan in L-form, which initiates the synthesis of auxins (growth hormones).	The tryptophan is destroyed, affecting the synthesis of auxins.
Serine and theronine in L-shape.	Serine and theronine are partially destroyed.
Aspartic and glutamic acid, which are two of the most important amino acids, are availablle.	Aspartic and glutamic acids are not in an available form for plants.
Not form amides. Great biological and nutritive value.	Nitrogen amines are formed. The biological and nutritional value is severely affected.
No presence of inorganic nitrogen (ammonium cloride).	Inorganic nitrogen is present as ammonium chloride.
Low dosages.	High dosages.

Aminoacid Foliar / Soil



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AMINO ACIDS FUNCTIONS

Root development	Methionine, arginine
Resistence to unfavorable conditions	Proline, valine, serine, lysine, glutamic acid, cysteine
Nitrogen reserve	Glutamine, aspartic acid, glutamic acid, arginine, proline
Hormone precursor	Tryptophan, methionine
Scent precursor	Valine, leucines, isoleucines, alanine
Flavour precursor	Alanine, glycine, proline, arginine
Color precursor	Phenylalanine
Increase of pollen germination	Proline, glutamic acid
Increase of seeds germination	Proline
Strengthening of chlorophyll and photosynthesis	Alanine, glycine, lysine, glutamic acid, proline
Complexant capacity	Glycine, glutamic acid, aspartic acid
Antioxidant capacity	Histidine, cysteine, tryptophan, lysine, methionine, threonine
Osmoregulation	Proline
Stoma opening	Alanine, glutamic acid, lysine, proline, methionin



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Benefits of SOWY application in crops (1 of 2)



Vegetal and root development

Mutritional enhancer

• Improve foliar uptake

Bioactivator for processes

- Germination, development, sprouting, flowering and fruit growing.
- Maduration
 - Fruit formation and fattening
 - More quality in fruits
 - Higher performance

Antistress effects:

- Biotic (Insects, fungi, etc...)
- Abiotic (low temperatures, hydric, salt)



- 🥒 Activator of microbial flora.
- Chelating effect, helping the uptake of micronutrients.
- Activation of sugar and polyphenol uptake.
- Improves organic matter breakdown.





Benefits of SOWY application in crops (1 of 2)

OTHER POSITIVE EFFECTS

FROST RESISTANCE

The increased protein synthesis is reflected in energy savings that the plant uses to fight against low temperatures.

DROUGHT RESISTANCE

Some amino acids favor the water balance of the plant, increasing its resistance in times of drought.

DECREASES OF HEAVY METAL CONTAMINATION

These metals can combine with localised compounds localised in the root zone (amino acids), decreasing the toxicity of those elements on the plant.

DECREASE OF IRON CHLOROSIS EFFECT

The chelating action of the amino acids increase the amount of iron that the plant is able to assimilate.

INCREASES:







ROOT SYSTEM



THE SEED GERMINATION



INMUNOLOGICAL SYSTEM ACTION OF THE CROPS





SOWY concentration of amino acids

BANANAPLANTS



Dosage Every 15 days between March and June.

Lts/Ha

Lts/Ha

Lts/Ha

12

6

6

DRY FRUITS



Dosage From budding until the swelling of the fruit.

COTTON



Dosage 10 days after shooting until 20 days after the flowering.

FRUIT TREES



Dosage From budding until the swelling of the fruit.

CITRUSFRUITS



Dosage From flowering until the swelling of the fruit.

OLIVE TREES



Dosage Throughout the whole cycle.

AMINOACIDS

SOIL APPLICATION

Lts/Ha 5

Lts/Ha 6

Lts/Ha 18



SOIL APPLICATION

ORNAMENTAL PLANTS				
	Dosage Every 15 days after transplanting.	Lts/Ha 4		

STRAWBERRIES		
	Dosage	Lts/Ha
	Every 10 days after transplanting	4







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FOLIAR APPLICATION

	Dosage After every mowing.	CC/100L 2,5 L/Ha		Dosage From flowering until the swelling of the fruit.
BANANAPLANTS			COTTON	
	Dosage Every 15 days.	CC/100L 250		Dosage 10 days after sprouting until 20 days after the first flower.
BEET			DRY FRUITS	
	Dosage 2 applications every 15 days.	CC/100L 2,5 L/Ha		Dosage From budding until the swelling of the fruit.





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FOLIAR APPLICATION

FRUIT TREES			OLIVE TREES	
	Dosage From budding until the swelling of the fruit.	CC/100L 200-300		Dosage Throughout the whole cycle.
HUKIILULIUKALU	KUP2		URNAMENIALPLA	AN I S
	Dosage Every 10 days after transplanting.	CC/100L 200		Dosage Every 15 days after transplanting.
LAWN			STRAWBERRIES	
AS ALA	Dosage After sowing/Growth phase.	CC/100L 3-5 L/Ha/ 30 cc/m2		Dosage Throughout the whole cycle.

AMINOACIDS

CC/100L 200-300

CC/100L 250

CC/100L 200



FOLIAR APPLICATION

TABLEGRAPES



Dosage	CC/100L
rom budding until the end of he cycle.	250

TUBERS		
	Dosage	CC/100L
	Every 15 days.	250









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