



# GRENA SPECIAL

Organic Eco-Product biostimulant  
Permitted in organic farming



**Recommended for:**

Fruit trees and vegetables



## AMINO ACIDS IN GRENA MATRIX

Aspartic acid	2,51	g/100 g
Glutamic acid	3,25	g/100 g
Alanine	2,05	g/100 g
Arginine	1,73	g/100 g
Phenylalanine	1,13	g/100 g
Gycine	1,89	g/100 g
Hydroxyproline	0,45	g/100 g
Isoleucine	1,24	g/100 g
Histidine	0,63	g/100 g
Leucine	2,20	g/100 g
Lysine	1,13	g/100 g
Proline	1,70	g/100 g
Serina	1,74	g/100 g
Tyrosine	0,65	g/100 g
Threonine	1,18	g/100 g
Valine	1,61	g/100 g
Cysteine and cystine	0,38	g/100 g
Methionine	0,39	g/100 g
Tryptophan	0,19	g/100 g

## FREE AMINO ACIDS

Glutamic acid (free)	0,12	g/100 g
Alanine (free)	0,24	g/100 g
Leucine (free)	0,11	g/100 g

## MICRO-ELEMENTS

B	4,62	mg/kg
Fe	661	mg/kg
Mn	37,2	mg/kg
Zn	67,2	mg/kg

## COMPOSITION

<b>Organic substance (SS)</b>	<b>38%</b>
Amino acids and proteins	25%
Humic and fulvic acids	9%
Humidity	7%
Total nitrogen (N)	5%
Organic nitrogen (N)	5%
Total phosphoric anhydride (P <sub>2</sub> O <sub>5</sub> )	3%
Total potassium oxide (K <sub>2</sub> O)	1,3%
Organic carbon (C) of biological origin	22%

## SOURCE

Hydrolyzed proteins of animal origin by thermal hydrolysis

## FEATURES

The abundant quantity of amino acids in GRENA SPECIAL provides excellent crop nutrition for the duration of the production cycle, with slow release of the nitrogen contained. The product also contains 3% P<sub>2</sub>O<sub>5</sub> of natural origin, which is immediately available to the soil, while the organic GRENA MATRIX restores the balance of the microbial and bacterial flora to improve the physical characteristics of the soil, thus helping reduce the energy costs of processing.

Among the amino acids, **glutamic acid allows greater resistance to abiotic stress**, and also enhances the photosynthesis and the level of chlorophyll. Aspartic acid promotes the assimilation of nitrogen. Among the free amino acids, **alanine helps regulate the opening of the stomata**, particularly useful in stressful environmental conditions, such as drought.

**Physical state:** pellet 4 mm - micro 2 mm

**Packaging available:** 25 kg bags - 500 kg big bags

CROP	TIMING*	APPLICATION*	DOSAGE/HA*
Vineyards	Autumn-winter	scatter the product in soil preparation	800-1200 kg/ha
Orchards (pome fruits, stone fruits, citrus fruits etc.)	Autumn-winter	scatter the product in soil preparation	600-800 kg/ha
Olive groves	Autumn-winter	scatter the product in soil preparation	600-1000 kg/ha
Greenhouse vegetable crops	pre-sowing or pre-transplant	scatter the product in soil preparation	800-1000 kg/ha
Open field vegetable and industrial crops	pre-sowing or pre-transplant	scatter the product in soil preparation	700-1000 kg/ha
Asparagus, potatoes, beets, carrots	pre-sowing or pre-transplant	scatter the product in soil preparation	400-600 kg/ha
Strawberry	pre-sowing or pre-transplant	localized distribution per row	600-800 kg/ha

\* guidelines only, for the correct use of our products, please consult a specialist.