

NOVASOL gelACT

Extra soluble nutrients in Gel formulation



+ safety



+ roots



+ production



Produce more and produce healthier!

Green Path is Agriges' practical answer to the challenges of modern agriculture. The focus of attention of the Green Path project is to provide technical means which allow to obtain abundant production, which are sustainable from an environmental point of view and safe for food: produce more and produce healthier. The project provides for Agriges' collaboration with research institutes, experimental centres, universities, cooperatives and farms, to develop products that maximise yields, thereby reducing the use of potentially polluting chemicals.



+ safe



+ sustainable



+ production



+ quality



- chemistry



- pollution



Goal: reduce waste in fertigation

Agriculture is the economic activity that most depends on water availability and is the production sector that uses it the most worldwide, often with poor efficiency of use. To date, the amount of water needed to fully meet the needs of crops is already insufficient and water availability will tend to contract further over time due to the growing incidence of various factors: climate change, population growth, other uses. Along with scientific, biological and agronomic advances, among the possibilities of making food production more efficient, there is the use of high-performance fertigation.

Novasol gelACT

Novasol gelACT is the innovative line of fertilizers in Gel formulation that offers unique properties in terms of concentration, quality of raw materials and acidifying power. Novasol gelACT brings soluble fertilizers to a higher level of performance and combines the advantages of different production technologies into one product. If used in drip irrigation, the formulations of the Novasol gelACT Line increase both yield and fruit quality.

RyZea and gelACT technologies

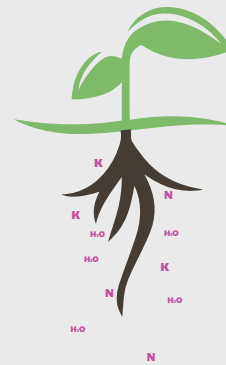
RyZea is the production technology that consists in extracting bio-activating molecules from three different types of seaweeds, namely: *Ascophyllum nodosum*, *Fucus spp.* and *Laminaria spp.*, that grow in the Atlantic Ocean and are harvested in the phase of their cycle where the concentration of phytostimulant compounds is highest. At the industrial production stage, the extraction process is carried out in an extremely "gentle way", so as not to alter the stability of the phytostimulant algal molecules, and no invasive extraction techniques are used that can alter the quality of the final product.

RyZea:

- Actives metabolism
- Chelates nutrients
- Retains water



control



The exclusive gelACT technology consists of a biopolymer of polysaccharide origin which increases the availability of nutrients in the rhizosphere. This allows the plant to have an adequate reserve of nutrients available for a longer time and to absorb them more effectively. The gelACT technology limits water and fertilizer losses, caused by volatilization and leaching, since it:

- retains water and nutrients in the rhizosphere, raising their concentration and increasing the amount absorbed;
- reduces irrigation volumes, with significant economic savings and low environmental impact;
- distributes the product homogeneously, both vertically and horizontally.



control

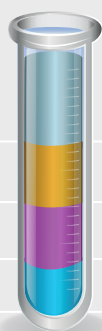


The Novasol gelACT Line is characterized by carefully selected raw materials that are optimal for the gelACT and RyZea production technologies. They are pure and totally soluble and have a high acidifying power such as to unblock the nutrients already present in the soil.

FERTIGATORS in comparison

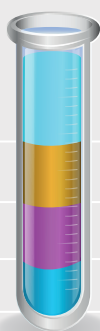


NPK 20-20-20 Powder



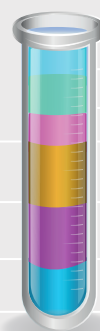
40% Inert matter
20% Potassium
20% Phosphorus
20% Nitrogen

NPK 20-20-20 Gel suspension



40% water
20% Potassium
20% Phosphorus
20% Nitrogen

Novasol gelACT 20-20-20





10% water
16% gelACT
14% RyZea
20% Potassium
20% Phosphorus
20% Nitrogen

Composition of the main products

	20-20-20		20-05-20		20-10-10		10-20-10		10-10-20	
	%w/w	%w/v	%w/w	%w/v	%w/w	%p/v	%w/w	%w/v	%w/w	%w/v
Total Nitrogen (N)	14,0	20,0	14,0	20,0	14,6	20,0	7,3	10,0	6,9	10,0
Nitric Nitrogen (N)	4,7	6,6	4,5	6,5	2,6	3,5	1,6	2,2	3,2	4,6
Ammoniacal Nitrogen (N)	1,7	2,4	1,0	1,4	2,1	2,8	1,0	1,4	0,4	0,6
Ureic Nitrogen (N)	7,6	11,0	8,5	12,1	9,9	13,7	4,7	6,4	3,3	4,8
Phosphorus pentoxide (P ₂ O ₅) water-soluble	14,0	20,0	4,0	5,0	7,2	10,0	14,6	20,0	6,9	10,0
Potassium oxide (K ₂ O) water-soluble	14,0	20,0	14,0	20,0	7,2	10,0	7,3	10,0	13,7	20,0

Product	Formulation	Packages	Density (g/l)	pH sol 6%	Conductivity dS/m
NOVASOL GELACT 20-20-20	Gel	4 - 8 - 15 l	approx.1450	approx. 2,0	approx. 38,1
NOVASOL GELACT 20-05-20	Gel	4 - 8 - 15 l	approx.1470	approx. 2,7	approx. 44,2
NOVASOL GELACT 20-10-10	Gel	4 - 8 - 15 l	approx.1380	approx. 3,0	approx. 26,6
NOVASOL GELACT 10-20-10	Gel	4 - 8 - 15 l	approx.1370	approx. 2,3	approx. 34,8
NOVASOL GELACT 10-10-20	Gel	4 - 8 - 15 l	approx.1460	approx. 2,7	approx. 44,2

Doses and administration

Application	Crop	Period of intervention	Dose
	Soilless and hydroponics	Use the product to prepare a mother solution at a maximum concentration of 20% and dilute in irrigation water in the expected proportion for the crop.	
	Fruit trees	From vegetative resumption up to fruit swelling	8-15 L/ha
	Vegetables	From root development up to fruit swelling	8-15 L/ha

The above doses are meant merely as an example and may therefore vary according to the soil and climate characteristics of each area. Moreover, they must be considered in relation to the entire fertilization plan.

WARNINGS

In case of mixing with other products it is always advisable to carry out miscibility and compatibility tests on a limited number of plants. Do not mix with copper-based products, particularly on sensitive crops, with mineral oils or with alkaline reaction products (e.g. polysulphides).



Exclusive Agriges production technology



Exclusive Agriges production technology



In Fertigation



idroponica