

**Kipos®**

Geolife® technology

# Open field horticulture



**Bioma®**



## **A Swiss company with more than 30 years of international presence.**

BIOMA is a company active in the production and marketing of "Chemical free" and "GMO free" solutions for the food industry, oenology, agriculture, environmental bioremediation, zootechnics and animal and human well-being.

Our products optimize all biological processes through indigenous microbiology and make it possible to reach an optimal balance in the targeted biomass. We seek to minimize the environmental impact within each structure.

The purpose of BIOMA solutions is to optimize production while guaranteeing economic sustainability



GMO-free



Chemical-free



Risk-free



## **Geolife® technology** **An innovative manufacturing and patented process.**

Geolife® is a technology for the extraction and stabilization of organic compounds allowing the activation of our products. This technology makes our products unique, easy to use and safe for the user, animals and the environment.

# Kipos®

## Bioactivation program for field crops

The Kipos® program is integrated into each cultivation system, balancing the soil's indigenous microbiology and using the full potential of the plant.

GOALS	
 <p>On soils</p>	<p><b>Making nutrients available</b></p> <ul style="list-style-type: none"><li>• Revive the nitrification process: proper transformation of ammonium into nitric nitrogen</li><li>• Solubilize and mobilize nutrients into plant-usable organic forms</li><li>• Express the terroir's potential</li></ul> <p><b>Activating proper microbiology</b></p> <ul style="list-style-type: none"><li>• Rapidly catalyze the desired microbiology, naturally available in the soil</li><li>• Activate the plant's bio-protective functions and promote soil-plant exchanges</li></ul> <p><b>Foster soil structuration</b></p> <ul style="list-style-type: none"><li>• Revive the mineralization and humification processes: a suitable transformation of the organic matter</li><li>• Improve the colloidal structure and increase the retention of bioavailable elements for plants</li></ul>
 <p>On the plant</p>	<p><b>Restore soil-plant balance</b></p> <ul style="list-style-type: none"><li>• Revitalize conductive tissues after a stress</li><li>• Strengthen the photosynthesis activity</li><li>• Helps root regeneration</li><li>• Strengthens the immune system</li></ul>

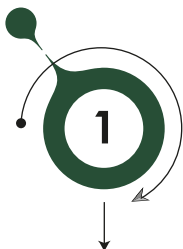


The Kipos® kit for 1 hectare consists of 2 solutions to be applied on the soil and 1 solution to be applied in foliar form

## Soil applications

### Kipos® Humificant

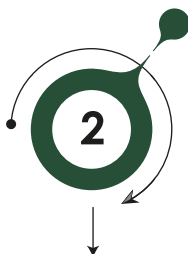
1 solution of 2,25 kg  
per hectare



It catalyzes the first soil reactions  
and reawakens beneficial  
indigenous microorganisms

### Kipos® Booster Fertilizer

10 litres per hectare



It boosts the development  
of indigenous microbial  
communities, it improves soil  
quality, it increases the  
bioavailability of nutrients

## How to apply?



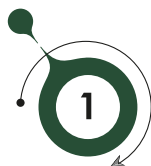
**Water volume:** 300 - 600 litres/ha

**Max. pressure:** 5 bar

Application on the floor

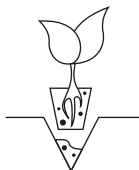
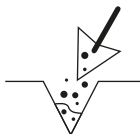
## When to apply?

### Kipos® Humificant



→  
10  
days  
after

sowing or  
transplanting



→  
5 - 10  
days  
afterpo

### Kipos® Booster Fertilizer

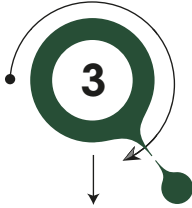


Possibility of integrating  
in fertilisation or during  
irrigation

# Foliar applications

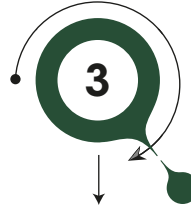
## Fylo® Leaf Treatment 1

1 liter per hectare



## Fylo® Leaf Treatment 2

1 liter per hectare



Particularly suitable for application after cutting.  
It enhances photosynthesis and optimizes soil-to-soil and leaf-to-soil lymphatic exchanges.  
It helps root regeneration.

One pack is included in Kipos® Program. Others can be purchased separately as needed.

## How to apply?



**Water volume:** 150/200 liter/ha  
Foliar application alone or combined  
with a biological treatment

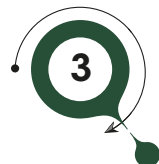
## When to apply?

Contact your technician for more details.

Systematically  
in pre-flowering  
period



### Fylo® Leaf Treatment 1



It can be applied  
in order to  
**reduce damages  
produced by  
stress** (like  
freezing,  
hailstorm, burns,  
etc.) **in all  
phenological  
phases**



### Fylo® Leaf Treatment 2



## Our results:

### Potato harvest, Mexico - 2011

Farmers	Quality	Quality (%)		Yields (T)		Revenue (€)	
		without Kipos®	with Kipos®	without Kipos®	with Kipos®	without Kipos®	with Kipos®
Aggata	Premium	58%	74%	24,36%	36,26%	8'696€	12'944€
	Standard	42%	26%	17,64%	12,74%	2'698€	1'924€
	<b>Premium quality increase</b>	-	<b>+16%</b>	-	<b>+16,60%</b>	-	<b>+30,50%</b>
Union Agricola Tapalpa	Premium	30%	80%	11,56%	34,40%	4'123€	12'280€
	Standard	70%	20%	26,95%	8,60%	4'123€	1'407€
	<b>Premium quality increase</b>	-	<b>+50%</b>	-	<b>+11,70%</b>	-	<b>+61%</b>
Grupo Agricola Visoal	Premium	25%	59%	10,50%	27,14%	3'748€	9'688€
	Standard	75%	41%	31,50%	18,86%	4'875€	3'092€
	<b>Premium quality increase</b>	-	<b>+34%</b>	-	<b>+9,50%</b>	-	<b>+48,3%</b>

- Average increase of 33,3% in the share of Premium quality potatoes
- Average increase of 12,6% in the yield of Premium quality potatoes
- Average increase of 48,2% in revenues from Premium quality potatoes

## Melon crops - Rama International, Cantaloupe, Mexico - 1997

	senza Kipos®	con Kipos®	Differenza
Yield (number)	1'180	1'264	<b>+ 7 %</b>
Sugar (degrees Brix)	9,5	12,3	<b>+ 29 %</b>
Shelf life	4 days	7 days	<b>+ 3 days</b>
Diameter (cm)	15 to 18	12 to 15	-

- +7% yield increase.
- + 3 days shelf life increase.
- Improved quality of fruits: more sugar, less water (less volume), improved uniformity in caliber and color.

## Processing and conservation:

Composition of the Kipos® kit for one hectare:

- a) 1 Kipos® Humificant total weight 2.25 kg
- b) 1 Kipos® Booster Fertilizer 10 liters
- c) 1 Fylo® Leaf Treatment 1 liter

Closed packaging, can be stored for 2 years in a dry and dark room between 10°C and 43°C. Opened packaging, can be stored for 3 months at room temperature and in a dark place (if properly closed and protected from humidity).

## Composition:

### Kipos® Humificant

Specific purpose product - Mycorrhizal fungi inoculum, mycorrhizae content: 5% of weight; rhizosphere bacteria content:  $1 \times 10^{10}$  UFC/g; Trichoderma content:  $1 \times 10^9$  UFC/g

### Kipos® Booster Fertilizer

Fluid yeast extract containing brown algae. Organic nitrogen (N): 18.70%; organic carbon (C) of biological origin: 28.30%; pH: 4.94; organic substance with molecular weight <50kDa: 30%

### Fylo® Leaf Treatment

Fluid yeast extract containing brown algae. Organic nitrogen (N): 32.30%; organic carbon (C) of biological origin: 41.60%; pH: 4.37; organic substance with molecular weight <50 kDa: 35%

## Classification and labelling:

Chemicals are classified according to their level of physical, health and environmental hazard. These hazards are indicated by specific labels and safety data sheets (SDS). With the GHS (Globally Harmonized System), hazard statements have been worldwide standardized so that the recipients of the information (production workers, first aiders and consumers) can better understand the hazards of the chemicals used. In the EU, the principles of the GHS are ratified in the EU-1272/2008 (CLP) regulation.

In accordance with this regulation, the Kipos® range does not require classification or labelling according to its physicochemical properties, its effects on the health and safety of the environment and does not require a safety data sheet.

The Kipos® range includes only organisms that are naturally present in nature and non-hazardous (WHO Class 1).

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## Compliance:

All Kipos® products are registered with SIAN (the Italian national agricultural information system) as approved for use in organic farming.

- Kipos® Humificant:  
register n° 0020533/17
- Kipos® Booster Fertilizer:  
register n° 0019839/17
- Fylo® Leaf Treatment:  
register n° 009637/17





## Notes:

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I am chemical free