



Dalla natura... alla natura

Previen® Line



PHYTO-FORTIFICANTS  
RESISTANCE INDUCERS



VISIBLE RESULTS, PROVEN EFFECTIVENESS

THEY ENHANCE NATURAL  
PLANTS RESISTANCE AND  
SELF-DEFENSE

IDEAL PARTNERS OF  
PLANT PROTECTION  
PRODUCTS

OPTIMIZE THE MANAGEMENT  
OF DOSAGES AND RESIDUES  
OF SELECTIVE AND COPPER  
FUNGICIDES

SUSTAINABLE  
AND ADVANCED  
AGRICULTURE





# Why should you use Previen?

Previen, Previen Bio and Previen Power WP are innovative PHYTO-FORTIFICANTS, the exclusive result of FERTENIA research for a sustainable, advanced and environmentally friendly agriculture!

1

Stimulate and enhance the natural immune barriers of plants against biotic and abiotic adversities.

2

Integrate chemical defense programmes.  
Ideal partners of selective fungicides.

3

Optimize dosage management with reduction of crop residues  
An important aspect to favor the export of products and to respect the environment.

4

Grapes of superior quality ... for wines of "excellence"  
Constant use leads to significant increases in production and quality

5

They nourish and strengthen crops  
Thicker, expanded leaf blades with an intense green color typical of plants in optimal nutritional and health status.



\* **PREVIEN:** Best resistance inducer among the strategies compared over the three years of the VI.S.O. Project trials both applied alone and in combination with copper.

*ATTI Giornate Fitopatologiche, 2016, 2, 445-452*

**CONTROL STRATEGIES OF DOWNY MILDEW (*Plasmopara viticola*): COPPER RATE REDUCTION AND ALTERNATIVE PRODUCTS.**

D. Mosetti, C. Lujan, L. Bigot, M. Stecchina, L. Marizza, M. Pinat, P. Sivilotti, G. Bigot



*Fertenia at Vinitaly: Interview after the results of the VI.S.O. project experimentation.*



# GROW WITH STRENGTH ...



## Adjuvant Phyto-fortificants



### COMPOSITION

#### PLANT EXTRACTS:

Extraction of selected and specific Plant Extracts (including: <i>Aloe vera barbadensis</i> , <i>Potentilla erecta</i> , <i>Salvia officinalis</i> )	13,0%
Propolis extract	5,0%
Glutathione (Peptides derived from hydrolysed proteins)	1,0%
Brown algae	12,0%
Silicon dioxide (SiO <sub>2</sub> )	1,0%
Phosphorus (P)	10,0%

USE IN INTEGRATED  
AGRICULTURE

### ADJUVANT



#### PACKAGE

Bottles 1L (20x1) • Jerrycans 5L (4x5)  
Jerrycans 15L • Tank L 1000



#### CHEMICAL-PHYSICAL PROPERTIES

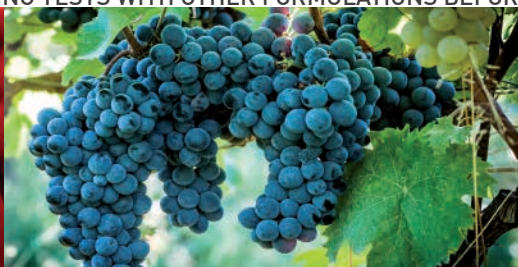
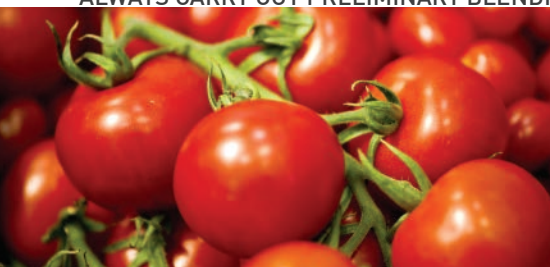
Formulation: **liquid**  
Density: **1,300** - pH (sol.1%): **2.6 ± 1**  
Conductivity (1‰) mS/cm 18°: **0.80**

**PREVIENT** is a innovative **PHYTO-FORTIFICANTS**, the exclusive result of **FERTENIA** research, made up of selected and specific **VEGETABLE EXTRACTS** (including *Salvia officinalis*, *Potentilla erecta*, *Aloe vera* and *Brown algae*), natural substances (**PROPOLS** and **SPECIFIC PEPTIDS**), carboxylic acids, oligosaccharides, lipid compounds and hydroquinones. These substances act directly on the **SAR** and **SIR**, as on the one hand they increase and stimulate the synthesis of **phytoalexins** and **special proteins with antimicrobial activity**, and on the other hand they enhance and speed up the natural production and mobilization of salicylic acid and jasmonic acid that stimulate the plants to further production of self-defence substances. **Previent** is also enriched with mineral compounds - **Silicon** and **Phosphorus**, which not only nourish and strengthen the plants, but also strengthen the leaf blade, making it inhospitable to various harmful organisms.

DOSES AND METHODS OF USE	PREVIENT - PREVIENT BIO	PREVIENT
CROPS	FOLIAR APPLICATION	
	TIME AND DOSES OF USE	CONTAINMENT OF EXCESS VEGETATION
Wine and table grapes	From sprouting to the beginning of fruit setting: 200-300 ml/hl, every 10-12 days, alone or in combination with fungicides. From halfway through grape swelling: 250 ml/hl, every 10-12 days. Alone or in combination with copper-based or other cover products.	350-400 ml/hl and in any case not less than 3.5 l/ha. Carry out two treatments 7-8 days apart.
Kiwi - Citrus and other fruit crops (pome fruits* - stone fruits* - tropical fruits) Hazel nut - Walnut - Chestnut	From sprouting to the beginning of fruit setting: 150-200 ml/hl, every 10-12 days. From start of fruit swelling: 200-250 ml/hl every 10-15 days. Alone or in combination with covering products	350-400 ml/hl and in any case not less than 3.5 l/ha. Carry out two or more treatments 7-8 days apart from the beginning of the vegetative phase.
Greenhouse and open field horticultural crops - Industrial	Starting with 3rd-4th leaf: 150-200 ml/hl every 10-12 days. Alone or in combination with covering products	300-350 ml/hl. Interventions 4-5 days apart.
Leafy and cut vegetables (lettuce, endive, spinach, chard, rocket, etc.) Aromatics - Seedlings in Nurseries	150-200 ml/hl every 10-12 days throughout the growing cycle. Alone or in combination with covering products	250-300 ml/hl. Interventions at a distance of 4-5 days apart.
Grains and leguminous plants	150-200 ml/hl every 10-12 days throughout the growing cycle. Alone or in combination with covering products	350 ml/hl
	FERTIGATION	
All crops	Preventive treatment at 0.8-1 l/1000 m <sup>2</sup> - <b>use alone</b>	1-1.5 l/1000 m <sup>2</sup> depending on the vigour of the crop 2 applications 4-5 days apart.
Lawns - Golf/Football Fields	Periodic interventions every 20-30 days- <b>use alone</b>	1,2-1,5 l/1000 m <sup>2</sup>

**NB:** The indication of the dose per hectolitre (hl) refers to the reference water volume of 1000 l/ha. In the case of low-volume treatments, adjust concentrations to maintain a constant dose per hectare. (E.g. ml 200/hl = L 2,0/ha)

**ALWAYS CARRY OUT PRELIMINARY BLENDING TESTS WITH OTHER FORMULATIONS BEFORE USE**





# HEALTHIER FRUITS AND VEGETABLES!



## PREVIENT<sup>®</sup> BIO

enriched with microelements,  
organic and vegetable matrices

### COMPOSITION

Organic nitrogen (N)	1,0%
Water-soluble boron (B)	0,2%
Water-soluble manganese (Mn)	0,2%
Manganese (Mn) chelated with EDTA	0,2%
Water-soluble zinc (Zn)	0,2%
Zinc (Zn) chelate EDTA	0,2%
Organic carbon (C) of biological origin	10,0%
pH	5,5
Organic substance with a nominal molecular weight <50 kDa:	30%



ALLOWED IN  
ORGANIC FARMING



### PACKAGE

Bottles 1L (20x1) • Jerrycans 5L (4x5)  
Jerrycans 20L • Tank L 1000



### CHEMICAL-PHYSICAL PROPERTIES

Formulation: **liquid**  
Density: **1,160** - pH (sol.1%): **5.5 ± 1**  
Conductivity (1‰) mS/cm 18°: **0.90**

**PREVIENT BIO** represents an innovative product in the panorama of technical means for organic and integrated agriculture. **PREVIENT BIO** is rich in organic matrices and microelements capable of improving plant growth and strengthening cell walls, thanks also to the presence of **brown algae of the genus *Ecklonia spp.*** All plants fertilized with **PREVIENT BIO** show thicker, expanded and more intense green leaf plates typical of plants in an optimal nutritional and healthy state, managing to achieve **high qualitative and quantitative production levels**.

THE EXPERT  
ADVISES

**PREVIENT** is ideal in a mixture with **Fertizolfo Bio** and **Zeorame**

“lower concentration of Cu” for a general improvement of the nutritional/health status of crops.

**PREVIENT<sup>®</sup>**

+ MORE

**FERTIZOLFO BIO<sup>®</sup>**

+ MORE

**ZEORAME<sup>®</sup> Micro**

...GRAPES OF SUPERIOR QUALITY...  
FOR WINES OF "EXCELLENCE"

Important and targeted studies carried out over more than **15 years** on the constant use of **Previen** in viticulture have shown a clear improvement in shoot lignification (CAMBIUM ACTIVITY) with a surprising absence of dead arm, **significant increases in Resveratrol** in the grape skin, thus bringing natural beneficial effects to the vine especially in response to biotic problems such as powdery mildew, downy mildew, Botrytis, etc. **Resveratrol** is consequently found in wine and is also useful in various human diseases. In addition, **Previen** showed after in vitro and field studies excellent efficacy in strengthening self-defences against *Phoma tracheiphila* on **CITRUS**.

**PREVIENT BIO**

+ MORE

**NATURAL WAX<sup>®</sup>**

+ MORE

**FERTIZOLFO BIO<sup>®</sup>**

THE WINNING SOLUTION **IN ORGANIC FARMING**  
FOR LEAFY CUT VEGETABLES AND BABY LEAF!





# ... THE STRENGTH OF VEGETABLE EXTRACTS



## PREVIEN<sup>POWER</sup> WP Cu-Zn

**Copper hydroxide (Cu 20%) and Zinc (Zn 4%)**  
with natural Complexants and carboxylic Acids

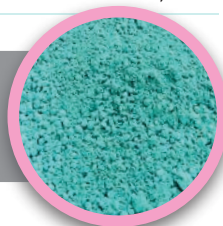
### COMPOSITION

Copper (Cu) total	20,0 %
Water-soluble zinc (Zn)	4,0 %
Zinc (Zn) complexed with LS	4,0 %

**Copper (Cu) Hydroxide 20%**

**STRENGTHENS IMMUNE BARRIERS**

**NEW FORMULATION**  
**WP**



**ALLOWED IN ORGANIC FARMING**



### PACKAGE

Bag  
1 - 3 Kg



### CHEMICAL-PHYSICAL PROPERTIES

Formulation: **Wettable powder (WP)**  
pH (sol.1%): **4.0 ± 1** - Conductivity (1‰) mS/cm 18°: **0.15**  
Solubility (g/100 ml): **30**

**PREVIEN Power WP** is an innovative product in the panorama of technical means for organic and integrated agriculture. **PREVIEN Power WP**, **NAP05 Technology**, is the result of a careful blend of the trace elements Copper (Cu) **Hydroxide** and Zinc (Zn) **Sulphate**, which are essential for plants (involved in oxidation-reduction reactions that occur in metabolic processes), with natural complexing agents, **Organic Acids (HGA)**, **Carboxylic Acids**, Minerals and plant powder of natural origin. Thanks to these constituents, the copper ion (Cu) is able to bind totally to the zinc ion (Zn), creating a special formulation that does not generate volatile dust during the preparation of solutions.

**PREVIEN Power WP** creates a "**hydro-acid solution**" which, when sprinkled on the vegetation, allows a rapid absorption of the constituents, thus favouring a concrete strengthening of endogenous resistance against biotic adversities and allows preventing and treating physiopathologies due to nutritional deficiencies. All treated plants show thicker, more expansive leaf blades and a deeper green colour typical of plants in an **optimal nutritional and healthy state**. Regular use brings considerable benefits to crops with important increases in production and quality.

**PREVIEN Power WP** is ideal in a mixture with **Fertizolfo Bio** and **Natural Wax**.

**THE EXPERT ADVISES**

**PREVIEN<sup>POWER</sup> WP Cu-Zn**



**FERTIZOLFO BIO**



**NATURAL WAX**

**THE WINNING SOLUTION FOR PROCESSING TOMATOES!**

**PREVIEN<sup>POWER</sup> WP Cu-Zn**



**NATURAL WAX**



### DOSES AND METHODS OF USE

#### CROPS

#### FOLIAR APPLICATION



Wine and table grapes, Kiwi,  
Citrus and other fruit crops

200-300 g/hl (not during flowering) every 10-12 days. (**Normal Volume**)  
2-3 kg/ha (not during flowering) (**Low Volume**)

Sugar beet, Carrot,  
Industrial crops

200-250 g/hl every 10-12 days from post-swelling or transplanting (**Normal Volume**)  
2-2.5 kg/ha (not during flowering) (**Low Volume**)

Potato, tomato,  
pepper, courgette

250-300 g/hl (**Normal Volume**)  
2.5 - 3 kg/ha (**Low Volume**)

Artichoke, cabbage, chicory, pea, spinach, melon,  
watermelon, cucumber, fennel, radish, garlic, onion

200-250 g/hl every 10-12 days from post-swelling or transplanting (**Normal Volume**)  
2-2.5 kg/ha (not during flowering) (**Low Volume**)

Strawberry

Vegetative restart 200 g/hl (**Normal Volume**) *not during flowering*  
2 kg/ha (**Low Volume**)

Leafy-cut vegetables, Fresh-cut leaf, baby leaf, Lettuce,  
Aromatic herbs, Cereal, Rice, Legumes

150-200 g/hl (**Normal Volume**)  
1.5 - 2 kg/ha (**Low Volume**)

Plants in Nurseries Forestry,  
Ornamentals

150-200 g/hl (**Normal Volume**)  
1.5 - 2 kg/ha (**Low Volume**)

### WARNINGS

Preliminary blending tests with other formulations and/or crop protection agents are recommended before use.

Do not combine with formulations containing amino acids. Do not use in flowering on fruit trees. Read the instructions for use on the label carefully.



special line  
**nutralia**<sup>®</sup>  
**NAP05 Technology**  
*(Nutraceuticals Applied to Plants)*



Dalla natura... alla natura

**FERTENIA s.r.l.**

**SPECIAL AND BIOLOGICAL FERTILIZER INDUSTRY**

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**Fertenia is:**  
 Research & Development  
 Nutraceutical applied to agricultural crops

**Manufacturer:**  
 Phyto fortificant – Resistance Inducers  
 Plant based Biostimulant  
 Special, mineral and organic Fertilizer  
 Fertigation and foliar application  
 Microelements  
**Chelated Iron EDDHA - EDTA**  
 Organic Farming Fertilizer

What is reported in this brochure is mainly indicative. When applying the products, carefully follow the methods and warnings on the label.  
 The manufacturer declines all responsibility for the consequences deriving from improper use of the products