

**PREVIEN®**

**PREVIEN® BIO**

**PREVIEN<sup>POWER</sup> WP<sub>Cu-Zn</sub> (\*)**

STIMULATE AND ENHANCE THE NATURAL  
SELF-DEFENCE CAPABILITIES OF PLANTS



**STRENGTHS**



- IDEAL PARTNERS FOR SELECTIVE FUNGICIDES
- INTEGRATE SEAMLESSLY INTO CHEMICAL DEFENCE PROGRAMS TO OPTIMISE DOSAGE AND RESIDUE MANAGEMENT
- NURISH AND STRENGTHEN CROPS AGAINST TYPICAL PHYTOPATHIES (*Downy mildew, Powdery mildew, Botrytis, bacterial blight, scab...*)
- IMPROVE THE PENETRATION AND EFFECTIVENESS OF FOLIAR TREATMENTS - ADJUVANT
- PROMOTE INCREASES IN RESVERATROL IN GRAPE SKINS AND OTHER RED FRUITS
- PREVIEN... AT HIGHER DOSAGES IT CONTAINS VEGETATIVE EXCESSES



*Previen Bio and  
Previen Power WP  
are allowed in  
Organic Farming*



**PACKAGE**

- Bottles 1L (20x1)
- Jerrycans 5L (4x5)
- Jerrycans 15L (Previen)
- Jerrycans 20L (Previen Bio)
- Tank L 1000



**PREVIEN and PREVIEN BIO FEATURES**

They are 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 (PROPOLIS 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. **Previen** 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.

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**.

**THE EXPERT  
ADVISES**

PREVIEN 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.

**PREVIEN®**

**FERTIZOLFO<sup>BIO</sup>**

**ZEORAME<sup>Micro</sup>**



| DOSES AND METHODS OF USE  |  |   |
|---|--|---|
| CROPS   | PREVIEN - PREVIEN BIO  | PREVIEN   |
|   | FOLIAR APPLICATION<br>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) Hazelnut - 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> - use alone  | 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- use alone   | 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**

| PREVIEN 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% |



#### CHEMICAL-PHYSICAL PROPERTIES

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

| PREVIEN BIO 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%   |



#### CHEMICAL-PHYSICAL PROPERTIES

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

## SUSTAINABLE VITICULTURE

Go to brochure



Fertenia at Vinitaly: Interview after the results of the VI.SO. project experimentation.

\* Best resistance inducer among the strategies compared over the three years of the VI.SO. 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. Masetti, C. Lujan, L. Bigot, M. Stecchina, L. Marizza, M. Pinat, P. Sivilotti, G. Bigot