



Vineyard Catalogue



DIN 6738



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All BluAgri products are
allowed and welcome in
Organic Agriculture



[#alwaysinvineyard](#)



TABLE OF CONTENTS

PAG.

BLUAGRI, GROW WITH NATURE 07

THE SOIL IS ALIVE 09

BLUAGRI TECHNOLOGY 13

VINEYARD PRODUCTS LINE

BLUVITE 21

BLUVITE PRO 23

BLUVITE RED 25

BLUVITE EASY + EASY RED 27

BLUVITE ROOT 31

BLUSOVESCIO 35

IN FIELD EXPERIENCES

USING BLUVITE 37

RESULTS IN THE VINEYARD 41

GROW WITH NATURE



Over the past six years **BluAgri's focus** has been this: **GROW WITH NATURE**. This is why we have developed products that favor everything that is natural and has been around for millennia. **Plant nutrition has come to a revolution, or rather, to a rediscovery of biological cycles that allow the plant to feed itself and to grow in good health**. It was the German baron Justus Von Liebig who introduced, in the '800, synthetic substances into agriculture; Liebig himself left a will at the end of his life, which reads:

"I willingly confess that the use of chemical fertilizers was based on assumptions that do not exist in real life. These fertilizers were supposed to lead to a total revolution in agriculture. The opinion that plants could get their nourishment from a solution formed within the soil by rainwater was a widespread view and was carved into my mind as well. This wrong opinion was the source of my absurd behavior. When a chemist is wrong in his fertilizers estimation, don't be too critical on his mistakes; he actually has based his conclusions on facts that he couldn't know from his own experience, but rather, that he has drawn from texts of agriculture that he considers to be right and reliable. After having learned why my fertilizers were not effective as they were supposed to be, I felt like a person born to a new life! Finally, all cultivation processes can be explained based on the natural laws that govern them. Now that the principle is known and clear in the eyes of everyone, we can only wonder why and how it had not been discovered long before. "

With the same amazement we began to observe the results obtained in the field, thanks to our technology, reaching the certainty that this will be our task: **to preserve the soil and the well-being of plants for the viticulture of the future**.

source: "Fauna in soil ecosystems: recycling processes, nutrient fluxes and agricultural production" (a cura di Gero Benckiser, Marcel Dekker, 1997).

Mattia Veneziano







THE SOIL IS ALIVE

For many years the soil was thought to be an almost **inert complex**, focusing mainly on its **physical and chemical characteristics**: sand, silt, clay, nitrogen, phosphorus, potassium and micro-elements. As a matter of fact, the concept of fertility of a soil is now closely linked to the organic substance and more specifically to the **living components of the soil**. The living biomass has been present in our soils for millennia, and over the course of such a long periods of time, it has evolved together with plants and their root systems, forming symbioses and **relations based on reciprocal exchange of nutrients**. We are talking about tons of microorganisms that directly nourish the plant, stimulating growth and allowing important mechanisms of adaptation and resistance to stress. **Their number is very high**, both in quantity of biomass and in number of species: on average, in one hectare of vineyard we can find about 2000-3000 species of fungi 5000-6000 species of bacteria. According to a recent study realized in 12 vineyards in the Euganean Hills and Berici Hills area, as many as **56,046 species of fungi and bacteria** have been sequenced *. These microbial populations are important to guarantee the plant continuous supply of water and nutrients; this is the reason why it is essential to keep them active and functioning.

** (Project Vene-Terroir, M. Paoletti, A. Squartini, G. Concheri, DAFNAE).*

REACTIVATE THE SOIL TO IMPROVE PLANT GROWTH IN A NATURAL MANNER

4/5 tons/ha OF MICROORGANISM IN THE SOIL

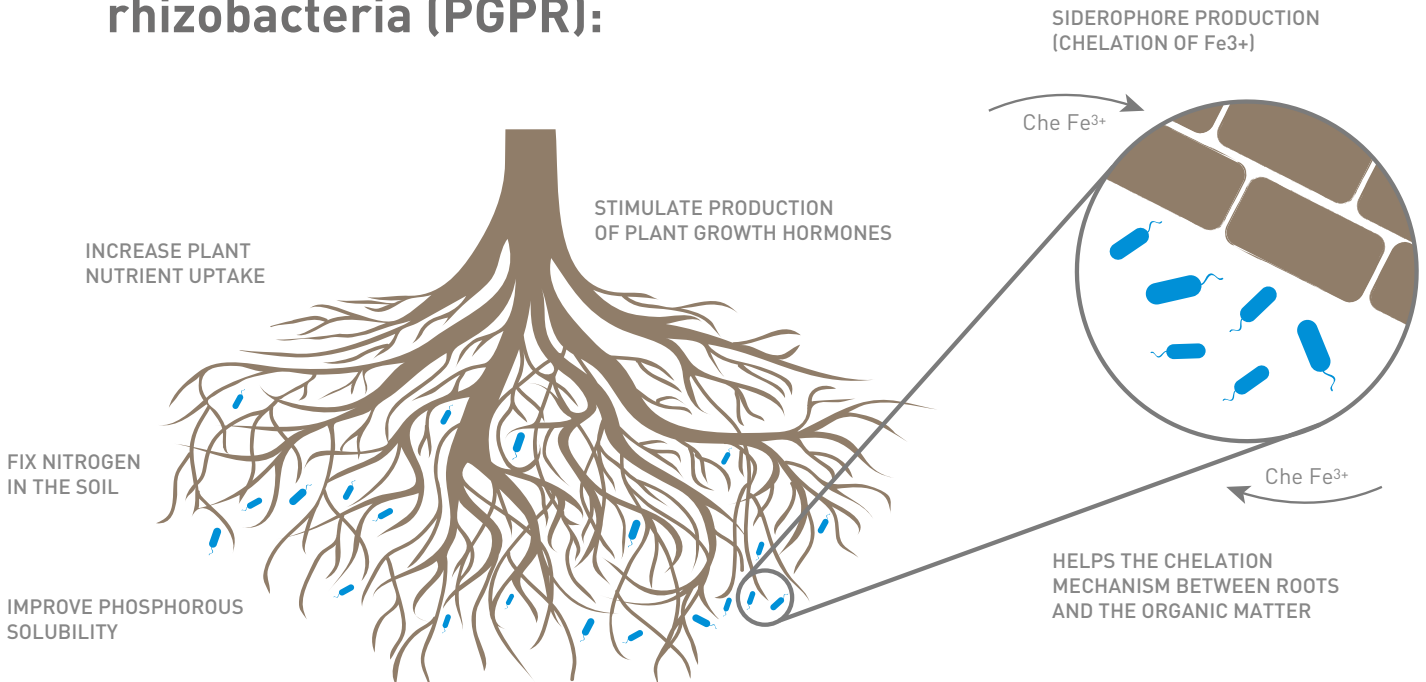
10,000,000,000 BACTERIA CELLS IN 1 GRAM OF SOIL

HOW TO CULTIVATE THE SOIL

OPEN THE QR CODE FOR MORE COMPLETE INFORMATION:



Role of plant growth promoting rhizobacteria (PGPR):



The difficulty in finding manure has caused, for many years, **the excessive use of synthetic chemical fertilizers** which, being based on salts, do cause **plasmolysis** and therefore the death of the soil micro-organisms. Besides the excessive work, the excavations/leveling and the lack of resting time for the plants have sped up the process of **improving the agricultural soil**. The situation is now clear: year after year, the soils are losing their organic substance and fertility, which leads to severe difficulties in managing water and nutritional deficiencies. The majority of the soils analyzed over the years contained a very high supply of nutrients; in this case, a further supply of fertilizer in these soils proved to be detrimental to the plant themselves. In all these cases **the solution is not the supply of more fertilizer, but rather the stimulation of the soil micro-organisms, which leads to the mobilization of these elements.**

It is fundamental to understand that it is the combination of different factors, agronomic, chemical, and microbiological, which allows us to obtain healthy and vigorous plants. The roots and the bacteria themselves need air and, with the ever-increasing compaction of the soil, this is diminishing. In this sense the most significant help against compaction is given by the organic substance and the amino acids released at the point of death of the micro-organisms: these substances do **create bridges between the soil particles**, thus creating a grainy structure that will increase the capacity to retain water and, vice versa, to allow gas exchange. A cultivation practice that can help in this purpose is the **green manure**, that is, the sowing of specific essences that on one hand “work” the soil with their root system and, on the other hand, **release sugar exudates** that are **good nourishment for the bacteria and mycorrhizae.**

OPEN THE QR CODE FOR MORE COMPLETE INFORMATION:



**La biodiversità
microbica,**
Prof. A. Squartini
Expo Rive



**Sostanza organica
e il ruolo dei sovesci,**
Dott. D.Ivan
Expo Rive



**La fertilità microbiologica
del suolo, dalla ricerca
ai risultati pratici in vigneto**
Dott.ssa M.Broggio BluAgri

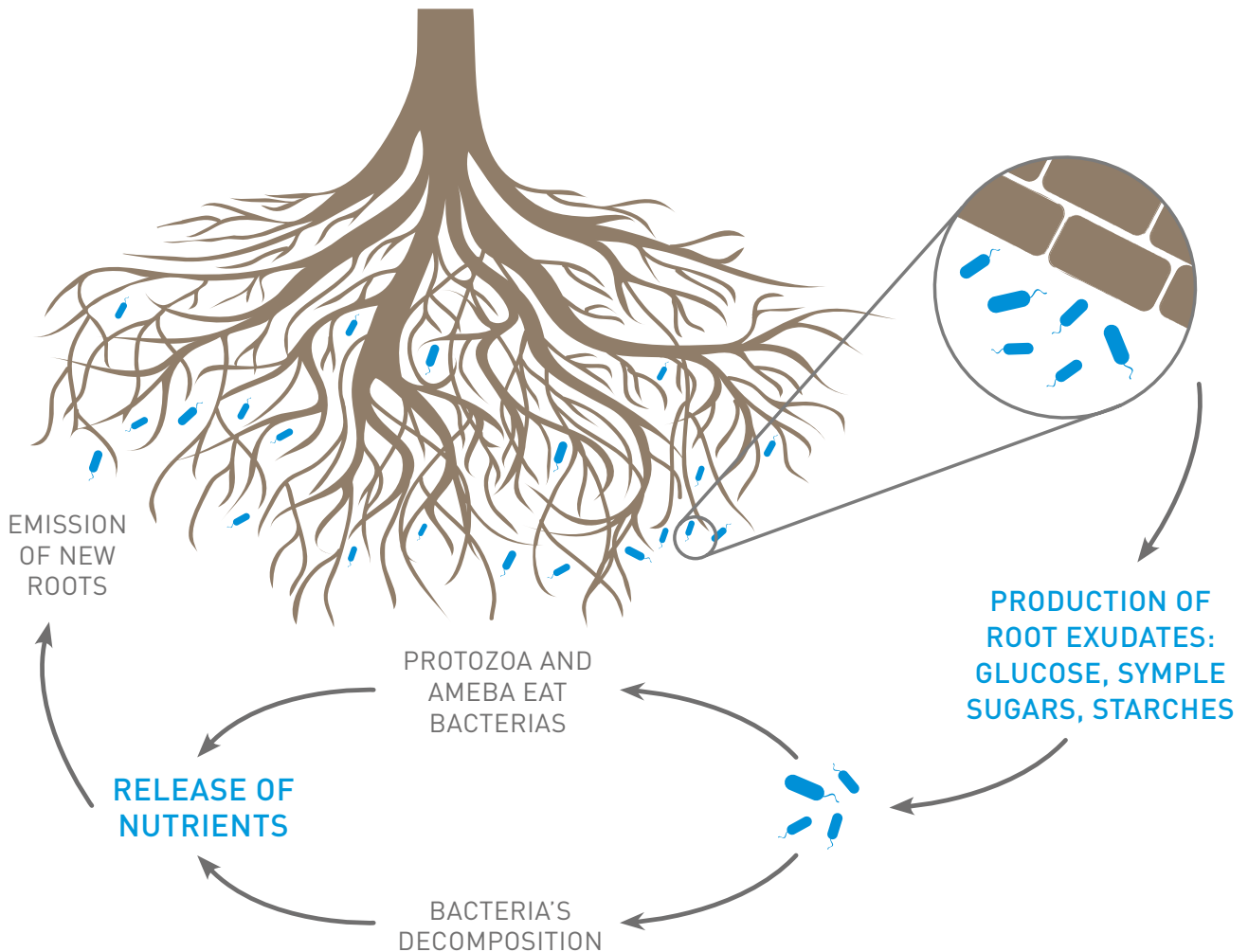






THE BLUAGRI TECHNOLOGY

STIMULATION OF THE ROOT SYSTEM: THE MICROBIAL LOOP



Nature has always taken care of everything: the presence of life within the soil, provided by fungi and bacteria, favors the growth of roots in the soil itself. The plant, in fact, emits main roots to seek water, while the secondary roots are developed for the **absorption of nutrients**. Right here is where bacteria intervene: after having been attracted by the root exudates emitted by the plant (Glucose, simple starches and other sugars) they begin to **colonize the rhizosphere**. At this point, once having completed their cycle, there is a substantial release of nutrients, which become nourishment for the plant itself, and will stimulate the production of new lateral roots.

HOW BLUAGRI PROMOTES THE ROOT GROWTH

STANDARD

BLUVITE



The innovative BluAgri technology (protected by Trade secret), combined with the components of natural origin, allows for the **restoration of microbial fertility of the soil without having to introduce other micro-organisms**, foreign to the soil under treatment. By doing this it is possible to **stabilize the ecosystem** in a lasting manner and to increase the **well-being and resilience** of the treated plants, while also reducing the production costs. The 90% of bacteria present in the soil have a variable metabolism: this means that they can change their function, like from being useful to becoming pathogens or even neutral in functionality, according to the environmental conditions in which they are placed. Weeding, synthetic fertilizers and incorrect processing can impact the microbiome, reducing their metabolism. Thanks to BluAgri technology it is therefore possible to **mitigate these effects and bring new life to the soil**.



ROOT SYMBIOSIS

Soil microbial populations have a key role in plant nutrition as they implement complex mechanisms of radical interaction.



GREATER RELEASE OF NUTRIENTS FROM THE SOIL

The greater microbial activity, stimulated by the BluVite line, allows the mobilization of the elements that otherwise would not be assimilable to the plant.



WELL DEVELOPED ROOT SYSTEM

Renewal and growth of an efficient root system, allows to explore greater volumes of soil.



MORE EFFICIENT NUTRITION

The best access to nutrients throughout the plant's vegetative cycle favors a continuous supply of water and nutrients, supporting the plant in times of stress.



STRONG AND HEALTHY PLANTS:

The major move of nutrients to the canopy allows the plant to SUPPORT HIGH QUALITY PRODUCTION.

BENEFITS

FROM ROOTS TO CANOPY

By favoring the metabolism of microorganisms it is possible to make available to plants that fraction of nutrients that has been immobilized by biological and mineral bonds. This mechanism of action results in the **MOBILIZATION OF ALL THOSE NUTRIENTS WHICH OTHERWISE WOULD REMAIN IMMOBILIZED AND THEREFORE NOT ASSIMILATED BY THE PLANT**. A constant use of BluAgri products allows to permanently revitalize the soil. Thanks to all these benefits it was also possible to reduce synthetic chemical fertilization down by more than 50%, thus drastically reducing the environmental impact.

IMPACT ON VEGETATIVE GROWTH:

balanced growth of canopy =

- + improved photosynthesis
- + increased nitrogen content and storage of reserve substances in the berry and vine
- + helps lignification and the stock of reserve materials

THE EFFECTS ON THE ROOT SYSTEM:

reactivation of the root system =

- + increased root density by promoting growth of root hairs
- + increased production of growth hormones such as auxins, cytokinins and gibberellins
- + release of immobilized elements in the soil







VINEYARD PRODUCTS LINE



VineyardCatalogue

BluVite

registration number: 0021529/18

DESCRIPTION:

BluVite is a product that reactivates the microorganisms that currently are living inside the soil and the useful endophytes specific to the vine. Its particular composition and mixture of compounds generate several biological activities in the pedological environment like, for example, the restoration of microbiological biodiversity, renewal and growth of an efficient root system. BluVite is suitable for all the grape varieties and for new planted vineyards.

COMPOSITION:

Mined Sulphur, Magnesium sulphate heptahydrate(Kieserite) type VT01.

SUITABLE FOR:

MULTIPURPOSE for all vine variety, either for wine or table grapes and for the new plantings.

PACKAGE

18 kg



GRAFTED VINES AND
NEW PLANTED



WHITE
VARIETIES



ROSÈ
VARIETIES



RED
VARIETIES



BluVitePro

registration number: 0021531/18

DESCRIPTION:

BluVitePro is a product that reactivates the microorganisms that currently are living inside the soil and the useful endophytes specific to the vine. Its particular composition and mixture of compounds generate several biological activities in the pedological environment like, for example, the restoration of microbiological biodiversity, renewal and growth of an efficient root system. BluVite Pro is projected for high quality sparkling wine varieties.

COMPOSITION:

Mined Sulphur, Magnesium sulphate heptahydrate (Kieserite) type VTS01.

SUITABLE FOR:

High quality sparkling wine varieties like Chardonnay, Pinot Noir, Pinot Blanc.

PACKAGE

18 kg



SPARKLING
VARIETIES





BluViteRed

registration number: 0021531/18

DESCRIPTION:

BluVite Red is a product that reactivates the microorganisms that currently are living inside the soil and the useful endophytes specific to the vine. Its particular composition and mixture of compounds generate several biological activities in the pedological environment like, for example, the restoration of microbiological biodiversity, renewal and growth of an efficient root system. BluVite Red is projected for high quality red wine varieties.

COMPOSITION:

Mined Sulphur, Magnesium sulphate heptahydrate (Kieserite) type VTR01.

DESTINAZIONE:

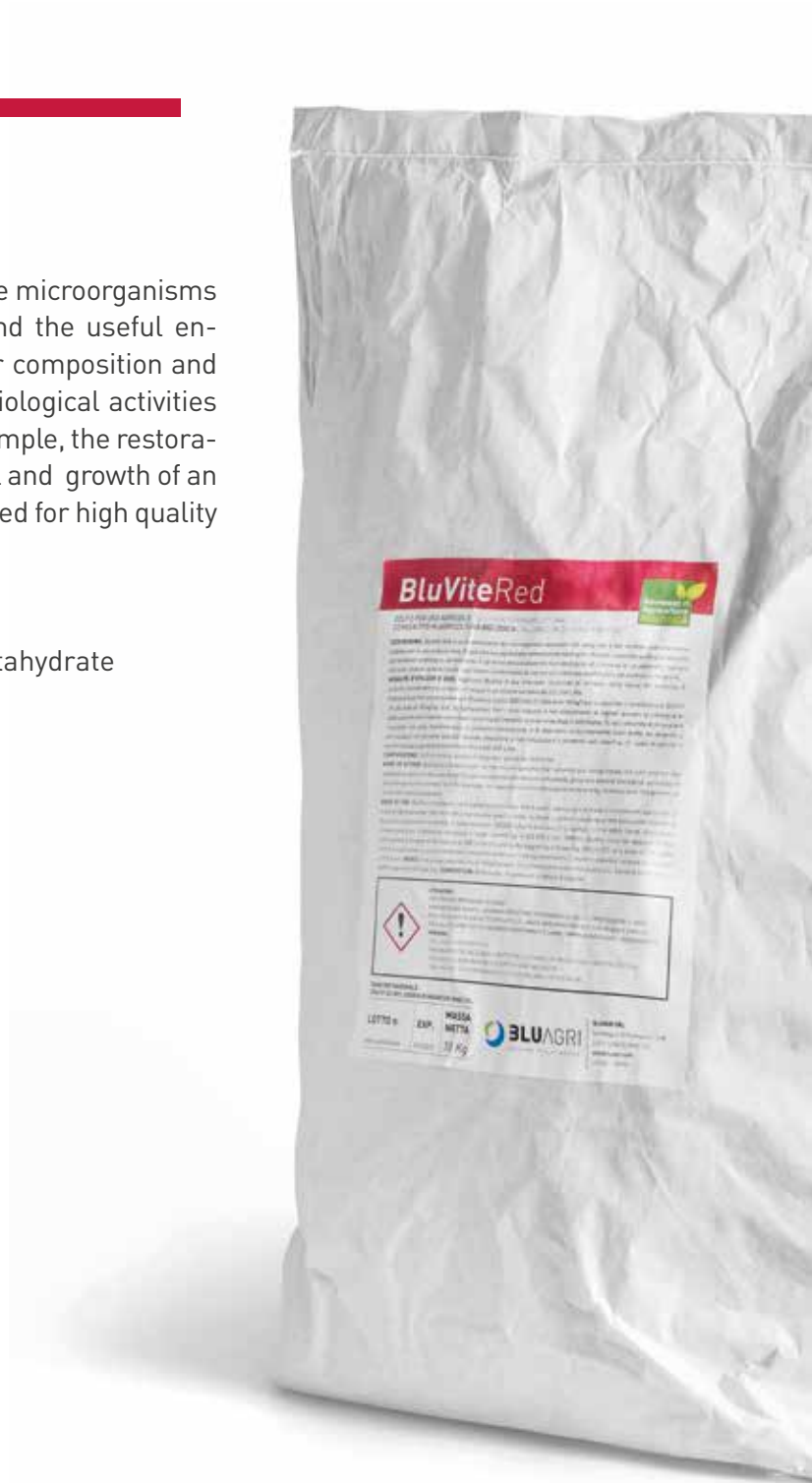
For high quality red varieties.

PACKAGE

18 kg



RED
VARIETIES







BluVite Easy

registration number: : 0024568/18

DESCRIPTION:

BluVite Easy is a multipurpose product for all vine varieties, including those for table grapes. This new formulation has the same characteristics as BluVite, but with a composition that allows for its use also with the drip system or in situations where its distribution should be made with a reduced volume of water.

COMPOSITION:

Magnesium sulphate heptahydrate (Kieserite) type VTE01 .

SUITABLE FOR:

MULTIPURPOSE for all vine variety, either for wine or table grapes.

PACKAGE

4 kg



GRAFTED VINES AND
NEW PLANTED



WHITE
VARIETIES



ROSÈ
VARIETIES



RED
VARIETIES



BluVite Easy Red

DESCRIPTION:

BluVite Easy Red is a product specifically designed for the red varieties, where one wants to obtain high quality grapes. This new formulation has the same characteristics as BluVite Red, but with a composition that allows for its use also with drip system or in situations where its distribution should be made with a reduced volume of water.

SUITABLE FOR:

Magnesium sulphate heptahydrate (Kieserite) type VTER01.

DESTINATION:

For high quality red varieties.

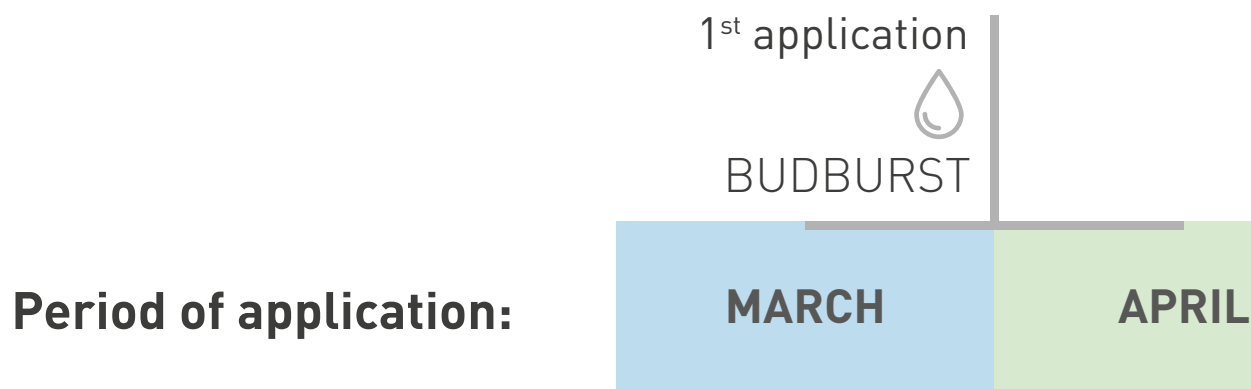
PACKAGE

4 kg



RED
VARIETIES

INSTRUCTIONS FOR USE



Method of application:

Dissolve the product in water and spray it under the row, localized near the vine. Use a volume of water equal to 200/250 L/ha if carried out before a rain and with weeding barrels or atomizer; use a larger volume (up to 600 L / ha) if distributed by hand showers or sprinklers connected to the barrel.

It is recommended to use a larger nozzle size to avoid spraying too much of the product or dispersion in the inter-row.

FOR NEW PLANTS OR ROOTED GRAFTS RECOVERY OF FAILURES:

Apply two fertilizations close in timing to each other (1 month) and localized under the vines in a band spray. In the case of individual vine grafting / replacements, apply 10 grams of product in the planting hole and irrigate.

DOSAGE

BluVite, BluVite Pro and BluVite Red, should be distributed in two separate applications of 18 kg/ha: one at BUDBURST (BBCH 00-01) and one at PRE-FLOWERING (BBCH 55-57); BluVite Easy and BluViteEasy Red at 4 kg/ha + 4 kg/ha at the same time of BluVite.

BluVite 18 + 18 = 36 kg/ha

BluViteEasy 4 + 4 = 8 kg/ha

BluVitePro 18 + 18 = 36 kg/ha

BluViteEasy Red 4 + 4 = 8 kg/ha

BluViteRed 18 + 18 = 36 kg/ha

MAY

JUNE

JULY

AUGUST

2nd application



PRE-FLOWERING

Effects of fertilization at budburst period:

- Better budding;
- Fast and balanced growth of the shoots (no internode lengthening);
- Improved leaf wall development.

Effects of fertilization at pre-flowering period:

- Increased percentage of fruit setting;
- Ripeness uniformity of clusters;
- Improvement of the lignification process.



BluViteRoot

registration number **BluVite Root 1**: 0022024/18

registration number **BluVite Root 2**: 0022025/18

DESCRIPTION:

The BluVite Root line is specific for the rooted grafts and consists of two products:

BluVite Root 1 is a product formulated to help the development of roots in the rooted grafts. Its action allows an immediate recovery of radical activity and, at the same time, a microbiological activation of the portion of soil that the grafts will occupy. In this way an optimal development of the roots is achieved, which in turn allows the absorption of water and nutrients even in case of climatic stress.

BluVite Root 2 is a product designed to activate the soil around primary and secondary roots in the rooted grafts. This activity does favor a balance between the growth of the root system and a uniform development of the buds, thus allowing the rooted grafts to achieve a better quality of wood for the following year.

COMPOSITION:

BluVite Root 1 Calcium sulphate dihydrate of natural origin

BluVite Root 2 Magnesium sulphate heptahydrate (Kieserite)

DESTINATION:

BluVite Root 1 As a starter for rooted grafts in the pre-implantation phase or in the nursery to replace the rooting hormone NAA.

BluVite Root 2 For rooted grafts in vegetative growth phase or in the nursery for the rooting of the grafts.

PACKAGE

BluVite Root 1 200 g, 1Kg

BluVite Root 2 2 kg, 10 kg



GRAFTED VINES AND
NEW PLANTINGS



PROTOCOL

BluViteRoot



PROTOCOL FOR NEW VINEYARD PLANTS:

The BluVite Root line has been designed to maximize the root systems of the new vineyard and establish a solid foundation for the balanced growth of the vineyard itself. Thanks to the knowledge of the BluAgri technical team, two products have been created to be used in combination: BluVite Root 1 for helping the emission of new roots and BluVite Root 2 for the subsequent development and expansion of the root system.

Instructions for use:

STEP 1: Roots immersion with BluVite Root 1

Add 0.1 gram of product per each plant to the container prepared for roots immersion, place the rooted grafts in the container and add enough water to cover the roots and stir.

STEP 2: reactivation of the microbiota around the root with BluVite Root 2

Distribute 1 gram of BluVite Root 2 on the plant close to the root of the graft; you may dissolve the product in water, with same proportion, and spray the rooted grafts with this solution.





PROTOCOL FOR NURSERIES:

Thanks to the cooperation with the most important nurseries producing rooted grafts in Italy and California, this protocol has been designed in order to help minimizing the use of naphthalenacetic acid (NAA) or rooting hormones. Advantages obtained with the use of this protocol are increased yields of first choice plants, as well as the enhancement in the production of roots and the convenience of use of the root bath; all this is possible because even long periods of contact with the product are not harmful to the plant but, on the contrary, they do increase its effectiveness.

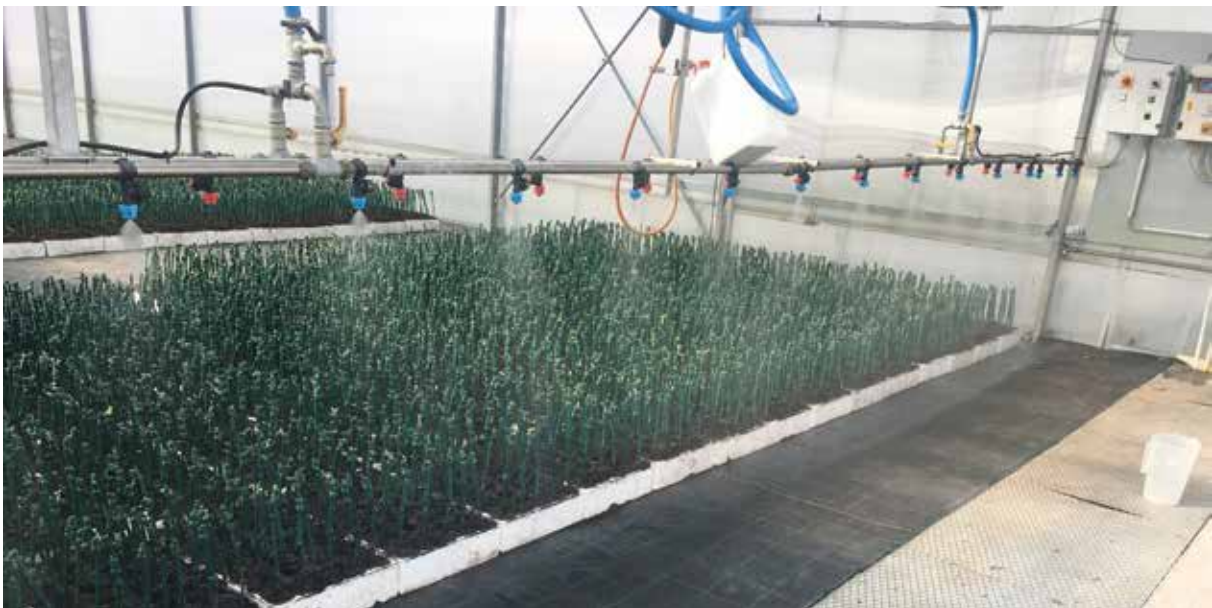
Instructions for use:

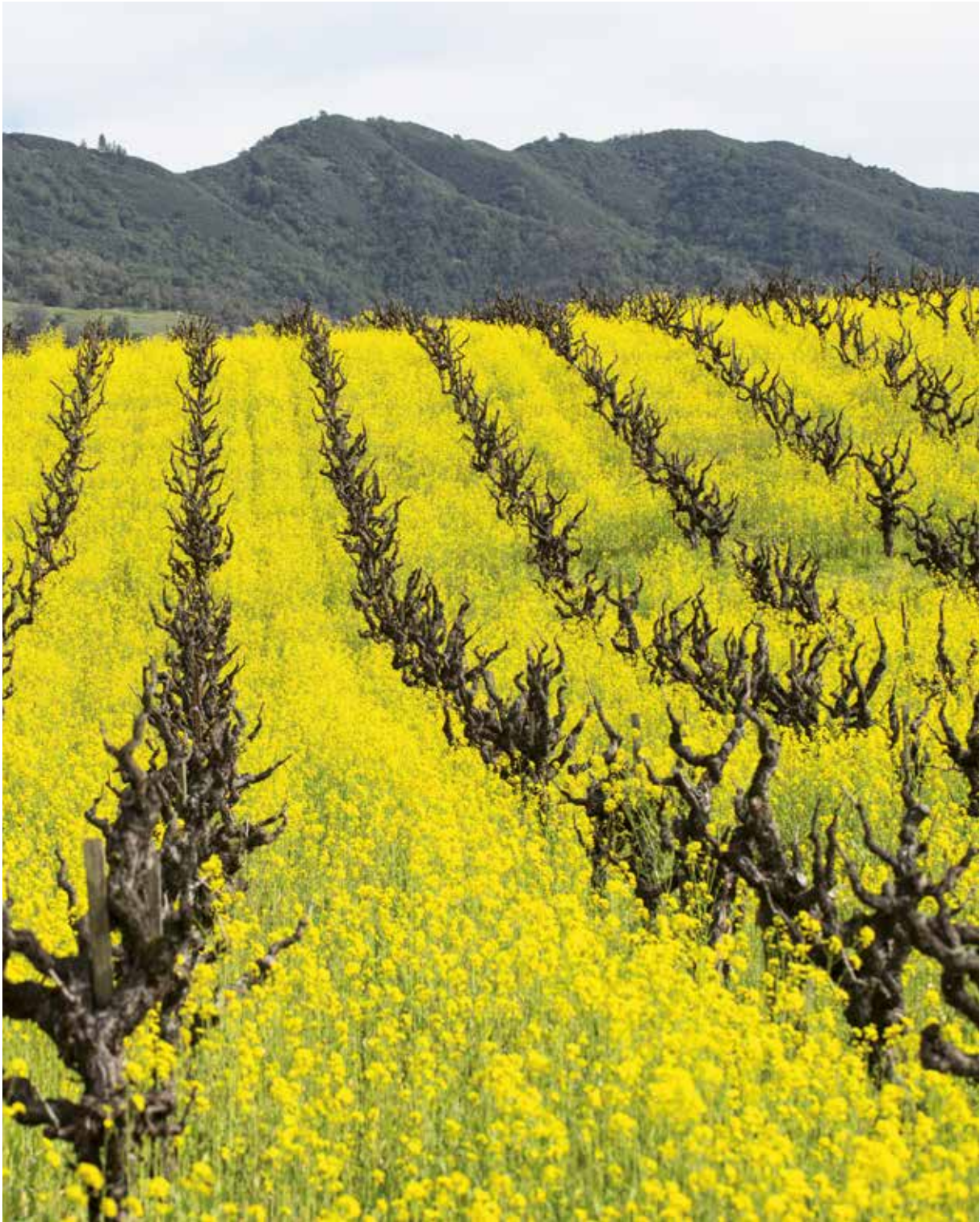
STEP 1: Root immersion with BluVite Root 1

Add 0.1 gram of product per plant to the bath, place the grafts in the container, and add enough water to cover the roots and stir.

STEP 2: reactivation of the microbiota around the root with BluVite Root 2

Distribute 0.5 g per plant of BluVite Root 2 a week after having put them in the jar (or in the field); repeat the operation after 2 weeks, always at the same dosage of 0.5 g per plant.





BluSovescio

registration number **BluSovescio:** 0022099/18

DESCRIPTION:

BluSovescio is a product designed specifically to improve the rooting and growth of those varieties of plants that will be used for green manure and those for sowing varieties that will go in the inter-row spacing. The use of BluSovescio allows to increase the germinative strength of the seeds and the rooting of the plants, thus increasing, at the same time, the health of the turfgrass.

COMPOSITION:

Calcium sulphate dihydrate 100% of natural origin.

DESTINATION:

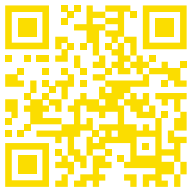
Graminaceous plants and legumes for the sowing of green manure and inter-row.

INSTRUCTION FOR USE:

Carefully mix 400 g of BluSovescio with the seeds needed for the sowing of 1 ha in a bucket or directly in the seeder hopper, paying attention that the product be evenly distributed over the whole seed.

PACKAGE:

1 kg



LEGUMINOSE



GRAMINACEE



USING BLUVITE



Az. Agr. Gini **Monteforte d'Alpone (VR)**

"Winemakers since 1600"

Our winery is an historical reality. Because we want to preserve as much as possible, the land that will go to our children, we have managed our vineyards in a biological manner for years. We use natural based products, because we are convinced that only in this way, we can enrich the soil, therefore providing a unique expression of our terroir to the grapes.

Claudio Gini



Azienda Agricola Inama **San Bonifacio (VR)**

"Express the terroir in our wine"

After dozens of years of research, experimentation and application, we are now proceeding in the right direction. Having structured and balanced soils, which maintain their original characteristics, helps to create the conditions to optimize the work of microorganisms and of the micro fauna in the soils.

This is the right way for us into the future.

Lorenzo Manfreda



Az. Agr. Bruseghin Marzio, Vittorio Veneto (TV)

“Beginning to solve the problems from the root”

In my company, every day, I face a different challenge. Leading vineyards to organic is not easy. There are many elements to consider in order to bring home quality grapes. I believe the key is soil management, so why don't we start solving problems from the root? The roots are fundamental for the development of a healthy plant, and that's why we pay attention to fertility. Fertile soil is the basis of everything.

Marzio Bruseghin



Soc. Agr. Bele Casel, Caerano San Marco (TV)

“Winegrowers. Hands, head and heart in Prosecco Asolo Docg”

In my land I have never used the “classic” chemical fertilizers, because I start from the concept of wanting to feed the soil, not the plant. This is precisely what allows me to express the territory in the wine I produce, a true extract of my land. I believe in the biological fertility of the soil and in BluVite because we have to change the route and the production philosophy to obtain grapes of the highest quality.

Luca Ferraro

USING BLUVITE



Arnia Rete di Imprese Agricole, Valpolicella (VR)

“...the microbiome exists, I saw it ...”

Climate change imposes a flexible technical approach capable of challenging the agronomic and viticultural choices made the previous year. Taking care of the soil microbiome allows us to resolve vegetative-productive difficulties without impacting the vineyard ecosystem. It's a new way of thinking about the soil and the living beings that populate it and consequently a new way of working ... in a word: innovation, and I like that!

Riccardo Turata



Az. Agricola Marco Florian #VF11, Cessalto (TV)

“We must start from the earth”

It is not just a question of taking, it is a matter of establishing a relationship where, before asking, we must give. In my company I take care of the soil and the plant because I am grateful for what I received. Working in different wine-growing areas has allowed me to observe and understand that viticulture should have a profound respect for the land and for the plant.

Marco Florian



Ornella Molon Traverso, Campo di Pietra (TV)

“Love for my land.”

The philosophy for respect for nature is family to us. We live in an ecosystem, and our task is to preserve what we have found, because it will then be left to others in the future. There are no laws or rules that impose it, this is our moral obligation. This is the spirit with which we carry out our company, with love for our land and respect for the territory.

Ornella Molon



Az. Agr. Tenuta Stoccatello, Menfi (AG)

“Viticulture and Sicilian tradition”

The Tenuta Stoccatello have their roots in the menphitan territory where the passion for agriculture comes from the attachment of his grandfather to the land, from the love for cultivation in the vineyard and the production of cereals and legumes. The experience with the BluVite product line convinced me once again how important it is to support nature in its processes and only by respecting natural laws can one achieve great goals and change the present.

Renzo Barbera





RESULTS IN THE VINEYARD



STIMULATING SOIL VITALITY IN THE NURSERY WITH BETTER AND MORE ESTABLISHED ROOT SYSTEMS PRODUCES HEALTHIER GRAPEVINE PLANTINGS

EXPERIMENTAL TRIAL, MERLOT
CLONE R18 ON S04 ROOTSOCK,
Rauscedo (PN)

STANDARD



- > PRIMARY ROOT SYSTEM WITH LOW DEPTH
- > SECONDARY ROOT AND CAPILLARY SYSTEM WITH LOW
- > GOOD ADSORBENT SURFACE
- > LOW RESISTANCE TO STRESS

BLUVITE
ROOT



- > PRIMARY ROOT SYSTEM WELL DEVELOPED, AND GOOD DISTRIBUTION
- > SECONDARY ROOTS AND CAPILLARIES CREATE A DENSE REDICAL SYSTEM
- > HIGH ADSORBENT SURFACE
- > OPTIMAL RESISTANCE TO ENVIRONMENTAL STRESS

EXPERIMENTAL TRIAL, GREEN GROWING GRAFTED VINES

Rauscedo (PN)

The best rooting favors a greater push to sprout in terms of length and number of leaves emitted.

Bud medium length:

STANDARD 15.6 CM - 7.5 LEAVES / **BLUVITE ROOT** 21.8 CM (+ 40%) - 7.9 LEAVES

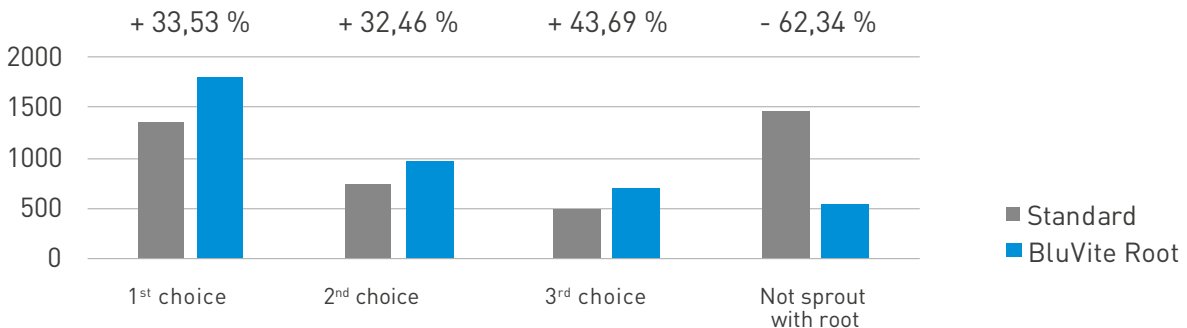
The result is an improved well-being of the plant already in the nursery, with a notable decrease in scrap and third-grade cuttings in favor of the first choice.



STANDARD

(NAA naphthalenacetic acid + synthetic chemical fertilization)

BLUVITE ROOT

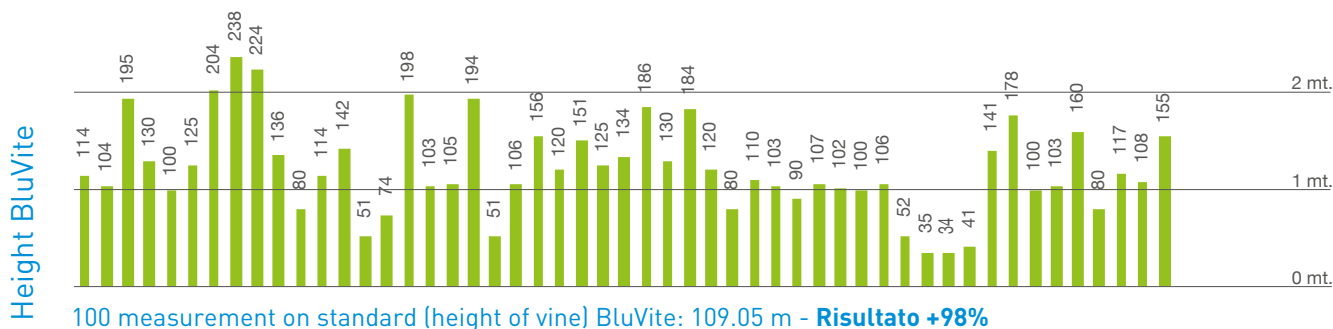
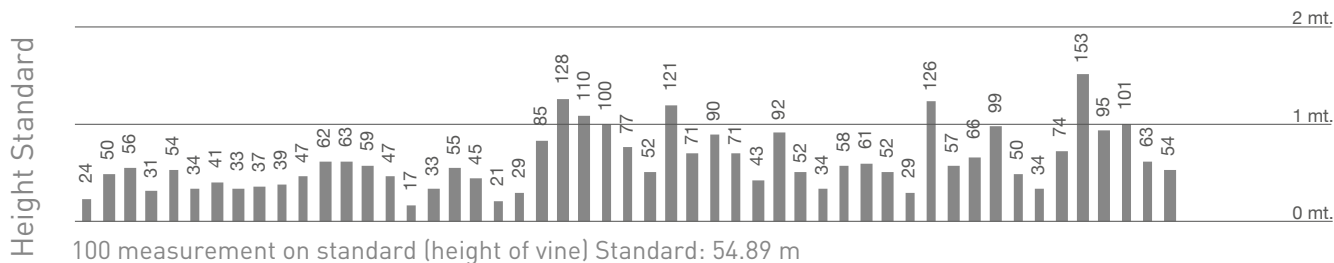


RELIEF OF THE LAST SORTING 16/05/2017

Carried out on 4000 rooted cuttings BluVite Root and 4000 Standard.

RESULTS ON NEW PLANTED VINES

GLERA SU KOBER 5BB,
Gorgo al Monticano (TV)



Measure height 100 grafted vines on new planted hit by frost (graphically reported 50 cuttings).

The symbiosis that develops between the root and the fungi and bacteria also leads to other benefits, such as the production of phytohormones. Rhizobacteria such as Azospirillum, Pseudomonas, Bacillus and Azotobacter are able to stimulate the production of hormones such as auxins, gibberellins and cytokinins in the plant. In this way, bacteria and fungi naturally promote root growth and favor the dominance of the shoot tip.

RECOVER OF THE PLANT AFTER 2 WEEKS

Varietà **CORVINA**,
Grezzana (VR)



23 JUNE



7 JULY

The best nutrition, and at the same time the largest root surface, is expressed at epigeal level even in new plants. Recovery test in a vineyard planted in March. First distribution with BluVite carried out at the end of June. Thanks to the composition and vitality of the soil, it was enough to stimulate the metabolism of the microbiota to create a new roots and reawaken the apex of the bud. In these cases where growth is blocked it is advisable to administer BluVite or BluVite Easy at short intervals of 3-4 weeks, to maximize the action and allow the plant to restart.

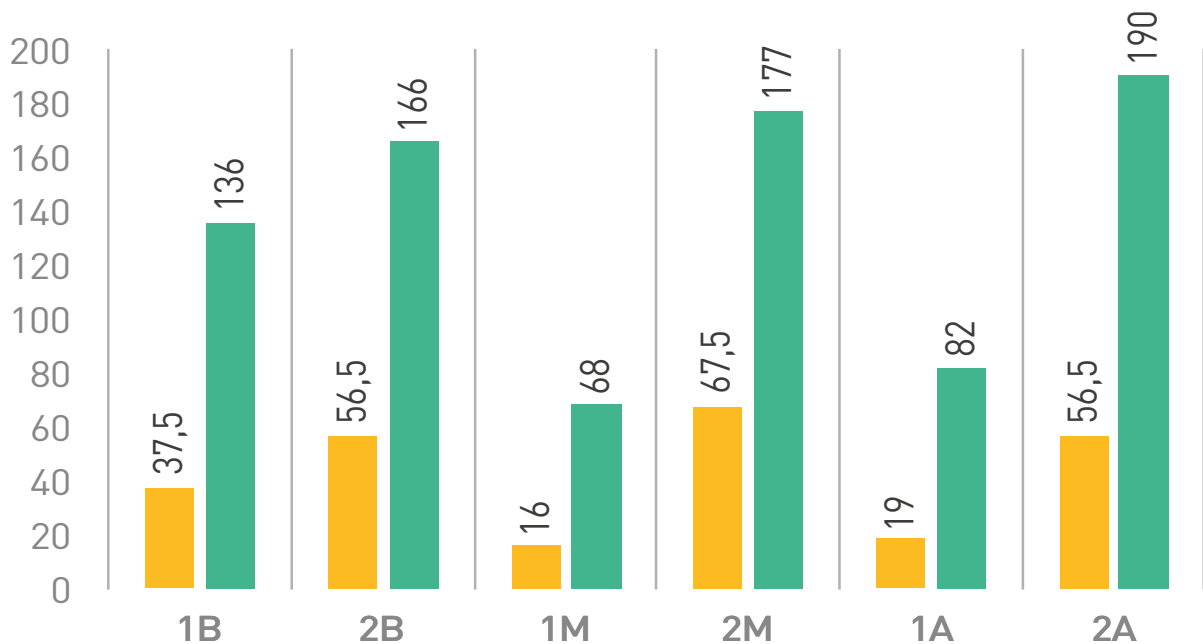
PLANT RESPONSE AFTER 1 MONTH

GARGANEGA,
AZ. AGRICOLA INAMA,
San Bonifacio (VR)

Monitoring carried out on new plants with 3 levels of adjacent docks: B low, M medium and A high.

**Plant 1 of each thesis characterized by stunted development and blocked apex;
Plant 2 of each thesis characterized by a growing active peak.**

N.B. The growth of the cuttings in quay B was on the whole homogeneous despite the fact that the land had been brought back from neighboring excavations.

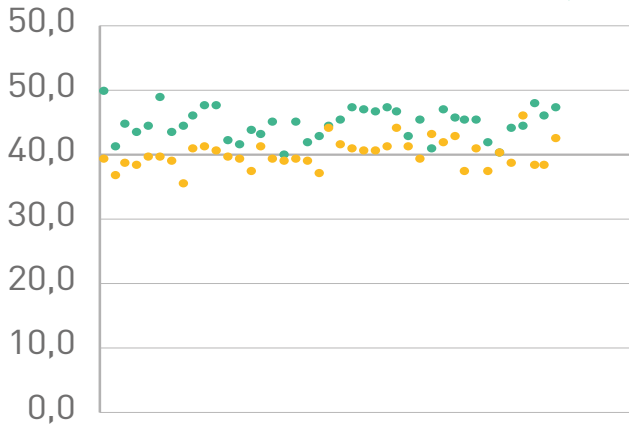


Length of the grafted vines before and after a month of treatment with BluVite.

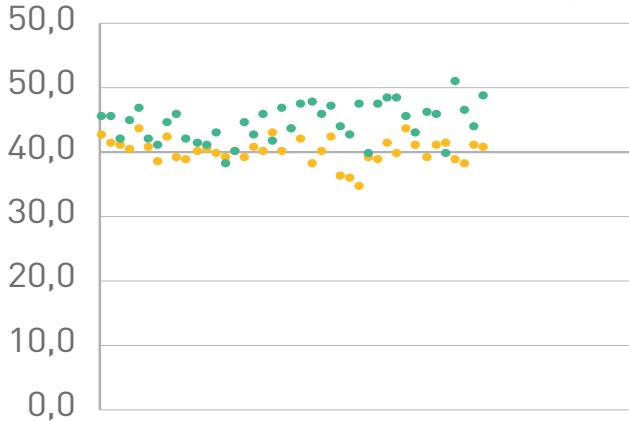
■ Before application
of BluVite 30/6

■ One month after application
of BluVite 28/7

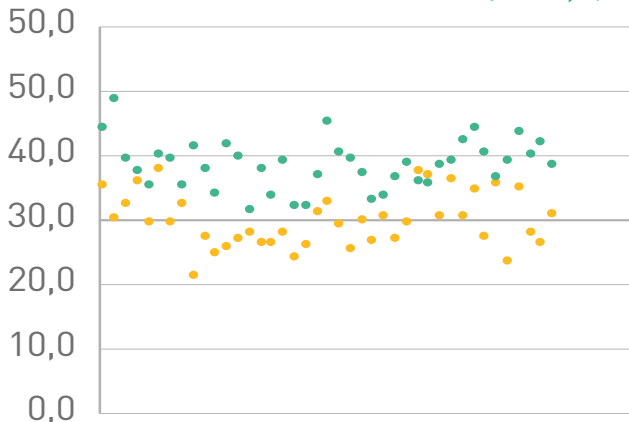
BLOCK A **AVERAGE SPAD 30/06: 35,5**
AVERAGE SPAD 28/07: 48,1 (+35%)



BLOCK M **AVERAGE SPAD 30/06: 37,2**
AVERAGE SPAD 28/07: 42,1 (+13%)



BLOCK B **AVERAGE SPAD 30/06: 29,2**
AVERAGE SPAD 28/07: 37,4 (+28%)



The effect of BluVite has been significant in the reactivation of the vegetative apices thanks to the stimulation obtained from the useful microbial component of the soil.

The Spad value can be related to the amount of chlorophyll present in the leaf.

For example, a yellow leaf has values of 10-20, while a healthy leaf has values above 40.

PLANT RESPONSE AFTER 1 MONTH

PINOT GRIS,
TENUTE S.MARGHERITA,
(Venice region)

The development of a more efficient and developed root system allows a rapid recovery in the growth of vegetative apexes and greater photosynthetic efficiency.



25 July - Spad 19,50



03 August - Spad 23,80



23 August - Spad 41,40

Late application of BluVite (July) to recover the stress condition of the plants.

PINOT GRIS,
AZ. AGR. CECCHETTO MARCO,
Mareno di Piave (TV)

By restoring the metabolism of useful and autochthonous soil micro-organisms, conditions are created to make the plant more efficient from a nutritional point of view.



STANDARD



BLUVITE

Comparison of average length of females per plant in STANDARD thesis and BLUVITE thesis.

AVERAGE STANDARD: 5.98 m

AVERAGE BLUVITE: 10.44 m (+ 74.58%)

RESULTS ON SHOOT GROW

CHARDONNAY,
Erbusco (BS)



STANDARD



BLUVITE PRO
second year treated

A constant use of the BluVite line allows to obtain better results from year to year thanks to the increase of the vitality of the soil. This has repercussions with a better sprouting thanks to the accumulation of reserve substances in the wood, which allow a more uniform and homogeneous shoot development.

GLERA SU KOBER 5BB,
AZ. AGR. MARZIO BRUSEGHIN,
Vittorio Veneto (TV)



STANDARD



BLUVITE
second year treated

Number of leaves per week



HOMOGENEITY OF INTERNODES

PINOT GRIGIO,
AZ. AGR. CECCHETTO MARCO,
Mareno di Piave (TV)



The constant and lasting presence of nutrients capable of being assimilated in the soil favors a good lengthening of the vegetative apices, with homogeneous and regular internodes, and a greater surface of the leaf wall (> LAI).

EFFECTS ON LEAVES

CORVINA,
San Pietro in Cariano (VR)



STANDARD



BLUVITERED

GREATER SURFACE AND THICKNESS OF LEAF LAMIN

- > better photosynthetic performance
- > physical resistance to attacks from insects
- > better nutrition of the multi-annual parts
- > greater resistance to pathogens

FOCUS ON WATER STRESS

MERLOT,
Colli Berici (VI)

Water stress contributes in an important way to the reduction of the quality of the grapes, both for the acidic degradation, and for the minor accumulation of color. Conditions of excessive climatic temperature, possibly associated with water scarcity, can lead to chronic photo-inhibitions

of leaf blades, especially in the peak hours of the day. These phenomena, also known as Photo-Assimilative Down Regulation, or intense and lasting reductions in photosynthesis, are the cause of chlorosis and necrosis of apical and leaf tissues.

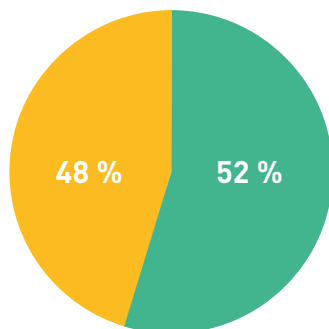
STANDARD



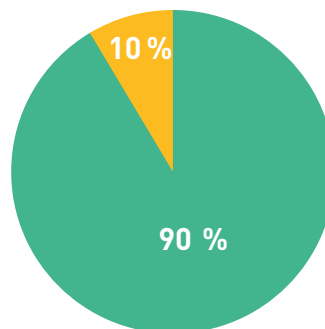
BLUVITERED



% PRESENCE/ABSENCE OF WATER STRESS SYMPTOMS ON BASAL LEAVES
(SURVEY CARRIED OUT ON 200 PLANTS)



STANDARD



BLUVITERED

The richness of **MICROORGANISMS** in the soil, combined with the use of BluVite, are the **key to increasing resistance** to water and thermal stress of plants, avoiding production losses and degradation of the acidity of the grapes.

Soil microbiota reactivation
with **BluVite** line



Increased production
of secondary roots



Increase in the absorbent
root surface

STANDARD



BLUVITERED



CORVINA,
Negrar (VR)

The improvement of the soil environment is reflected in better nutrition but also in **greater resistance to abiotic stresses**.

The greater presence of root hairs allows for the greater absorption of water, favoring the well-being of the plant.

RESULTS AT THE HARVEST



BLUVITE

Target:
growth

		Standard	BluVite
SUGARS	g/L	178,0	196,0
TOTAL ACIDITY	g/L	7,52	8,07
pH		3,12	3,08
MALIC ACID	mg/L	2,20	2,55
TARTARIC ACID	g/L	6,9	7,34

STANDARD



BLUVITE



PINOT GRIS,
Pramaggiore (VE)

Thanks to proper nutrition, the bunch develops more completely, reducing the phenomenon of milling. The “accumulation” effect of the product, intended as an improvement in soil fertility from year to year, allows exponentially greater yields to be obtained. **The presence of a well-developed root system, combined with the greater bioavailability of the nutritional elements, leads to not only quantitative, but also qualitative increases in the grapes.**

BLUVITE PRO

Target:
acidity

		Standard	BluVite Pro
SUGARS	g/L	175	172
TOTAL ACIDITY	g/L	7,68	9,2
pH		3,05	3
MALIC ACID	mg/L	2,3	3,85
TARTARIC ACID	g/L	7,1	6,99
POTASSIUM	g/L	1,08	0,95

STANDARD



BLUVITE PRO



CHARDONNAY,
 Erbusco(BS)

In general, on different varieties and in different areas and soils, the use of BluVite has allowed an increase in total acidity and a lowering of the pH. It should be noted that in 80% of cases the greater well-being of the plant has led to a lower absorption of potassium, which is essential for the preservation of acidity in wine.

BLUVITE RED

Target:
quality and colour

		Standard	BluVite Red
SUGARS	g/L	226,5	235,5
TOTAL ACIDITY	g/L	4,4	3,9
pH		3,58	3,69
MALIC ACID	mg/L	0,57	0,73
TARTARIC ACID	g/L	6,78	6,50

STANDARD



MERLOT,
AZ. ORNELLA MOLON TRAVERSO,
Campo di Pietra, (tv)

BLUVITE RED

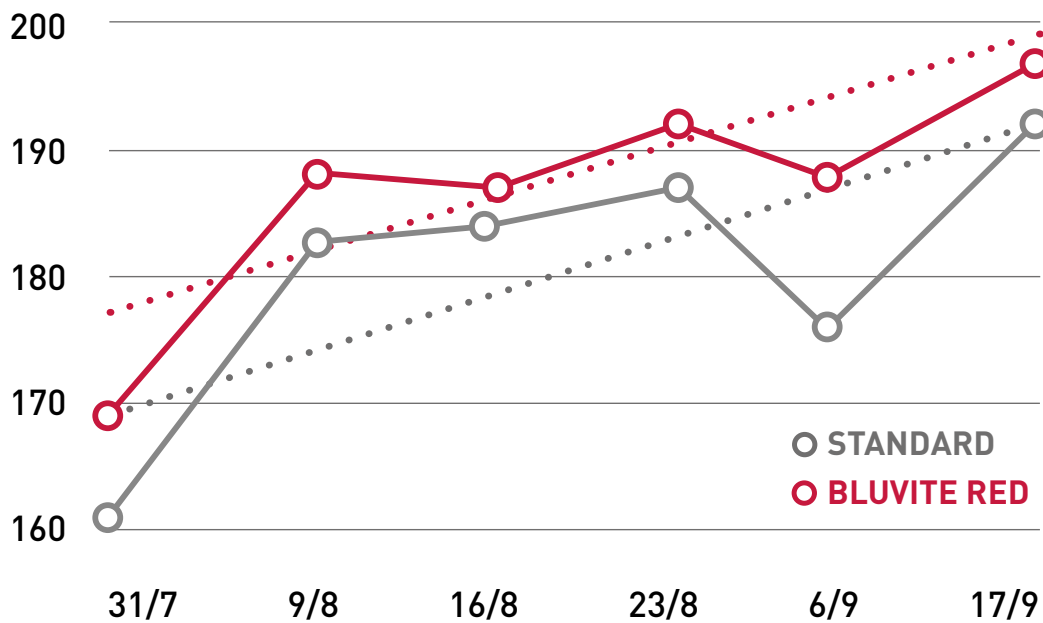


The direct consequence of a better nutrition translates into a homogeneous ripening of the bunches, with an **accumulation in higher phenolic substances**. The increase in quality, correlated by the complete maturation of the tannins, is reflected in a better enological quality based on a regular and constant ripening of the bunch.

COLOR ACCUMULATION

MERLOT,
Colli Berici, (VI)

Average 50 thesis measurements with weekly repetition for two months given in Poliphenolic Meter index (Pinza CaelEno - Celotti UNIUD, Carcereri).



Throughout the maturation phase the plants show the ability to intensify the “sink” process by **anticipating and improving the accumulation** efficiency in extracts and anthocyanin intensity.

CANES AND LIGNIFICATION

GARGANEGA,
AZ. AGR. GINI,
Monteforte d'Alpone (VR)



STANDARD



BLUVITE

The revitalization of the root system allows the uniform development of the internodes, excellent lignification of canes and a larger diameter of the shoots (increase in the amount of starch reserve).

Regularity in vegetative expression is an important objective to define the quality of the vintage production and ensure the vitality of the plant for the future.



STANDARD



Average Standard:
7.06 mm
(thin canes)



BLUVITE



Average BluVite
9.19 mm
(normal canes)
= +30% of calliper

Survey of the diameter of the shoots carried out at the base of 200 shoots in the same position.

In the sections of the shoots, there is a **greater presence of phloem and tracheids**, or vascular bundles more prone to lymphatic translocation, than of tracheae, used instead for the translocation of salts and water. This determines a better nourishment for the epigeal organs of the plant and a better resistance to water stress.

BLUVITE HAS SHOWED TO ENCOURAGE A GOOD LIGNIFICATION WITH AN OPTIMAL DIAMETER OF THE CANE (NO EXCESS DIAMETERS HAVE BEEN OBSERVED WHICH CAN BE SEEN WITH THE USE OF HIGH NITROGEN FERTILIZERS).

FOCUS ON GREEN MANURE

AZ. AGR. FLORIAN MARCO,
Cessalto (TV)



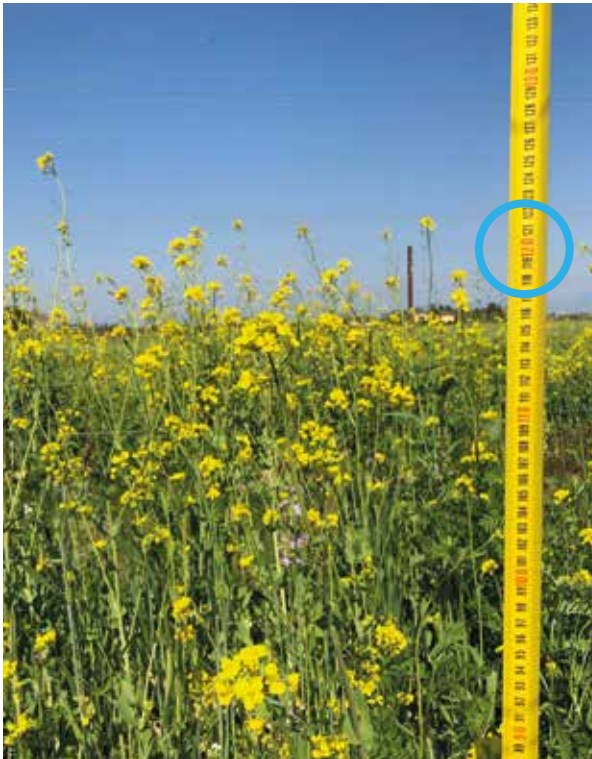
STANDARD

The Green manure, an ancient practice rediscovered in recent years, consists in sowing a mixture of essences that have the important goal of improving the characteristics of the soil. In an agricultural system where organic matter is increasingly scarce, green manure represents a valid and effective alternative, not only in terms of biomass but also with regard to the structuring action of soils, with reduction of compaction, improvement of up-take and nutrient mobilization and finally for land cover. Adopting this practice represents an investment for our future and that of our land. Preserving, maintaining or better increasing the fertility of our soils can only improve their productivity. Like the vine, the green manure essences also grow correctly if their root system is in symbiosis with the microbiota. BluSovescio by acting promptly around the seed guarantees rapid development on the stimulation of bacteria useful



BLUSOVESCIO

for rooting and planting, maximizing the re- search results. Well-developed overhangs result in greater biomass with relative greater contribution of organic substance, moreover the greater development of the root system allows a greater deepening in the soil with improvement of nutrient up-take. In this test the effectiveness of BluSovescio was tested on a mixture based on Rye, Oats, Trifolium, Alexandrian Trefoil, Mustard, Ravizzone, Triticale, Vetch, Pea, Horseradish and Facelia. The tanning with 400 g / ha of BluSovescio was added to the mix during autumn sowing, distributed directly into the seed hopper. The plants present in a square meter have been cut in various stages along the thesis. Given the texture and composition of the soil it was possible to obtain a better development of the root system of the sown species, and consequently a greater production of biomass (+ 45%).



STANDARD



BLUSOVESCIO

RESULTS

AVERAGE WEIGHT

STANDARD:

3,41 kg/m²

=341

quintals/hectare

AVERAGE WEIGHT

BLUSOVESCIO:

4,97 kg/m²

=497

quintals/hectare

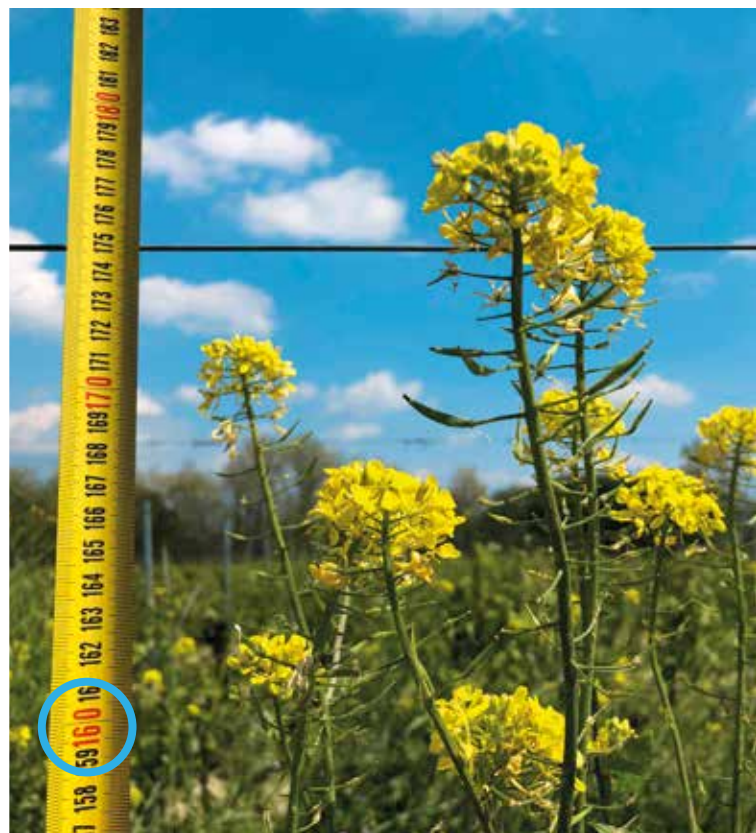
+ 45%
OF BIOMASS

RESULTS ON GREEN MANURE



STANDARD

AVERAGE HEIGHT STANDARD: 145 CM



BLUSOVESCIO

AVERAGE HEIGHT BLUSOVESCIO: 165 CM
+ 20cm

This test was carried out on land where the practice of green manure had already been practiced for a decade, and this means that the base of the starting soil was good. In this case the difference was appreciated both in terms of greater biomass (+ 26%) and in terms of the phenological stage of sown essences. In fact, the plants in the witness showed that they had already completed their flowering, indicating greater stress that led the plant to close the cycle earlier. In the part treated with BluSovescio, on the other hand, a greater performance of the plant has been observed, which has continued to work on the soil longer (greater release of radical exudates).



AZ. BELE CASEL,
Cornuda (TV)



STANDARD

BLUSOVESCIO

RESULTS

AVERAGE WEIGHT	AVERAGE WEIGHT
STANDARD:	BLUSOVESCIO:
4,4 kg/m ²	5,55 kg/m ²
=440	=555
quintals/hectare	quintals/hectare

+ 26%
OF BIOMASS



BLUAGRI s.r.l.
Via Pacinotti, 43/A
30020 Pramaggiore (VE)
+39 0421.200304
info@bluagri.com
www bluagri com

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The data shown in this material are the result of experience in the field and experimental tests and do not constitute a guarantee of results. The results can change depending on environmental variables and cultivation conditions.

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