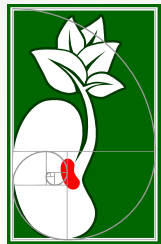


黄金叶  
BIO-AGROWNICA  
"HEAL THE NATURE"



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"HEAL THE NATURE"

Mycorrhizosphere  
Rhizosphere  
Optimizer

# Agrownica Plus

*A novel multi-functional  
approach to increase your  
crop yield the natural way*

Soil Conditioner

Root Growth

Crop Protection



1 Liter = 1 Hectare

**3in1**  
Soil & Plant  
VITAMINS

FPA No.:

IMPORTED AND DISTRIBUTED BY:

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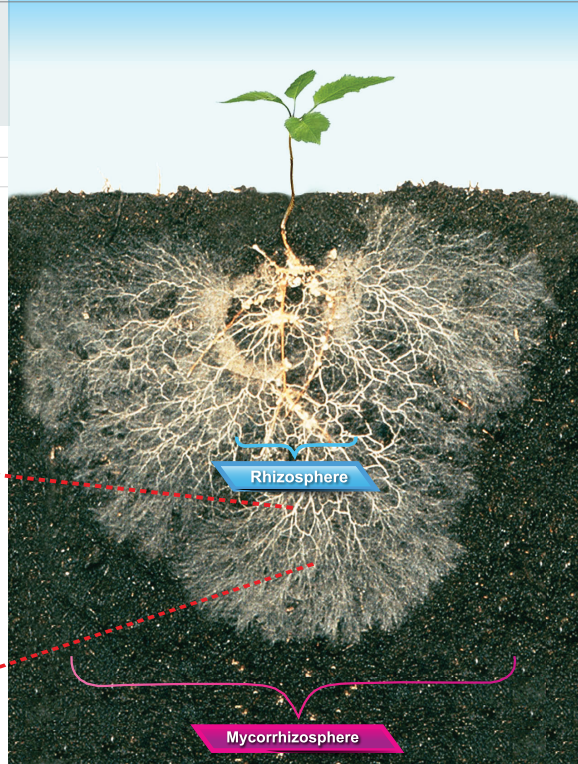
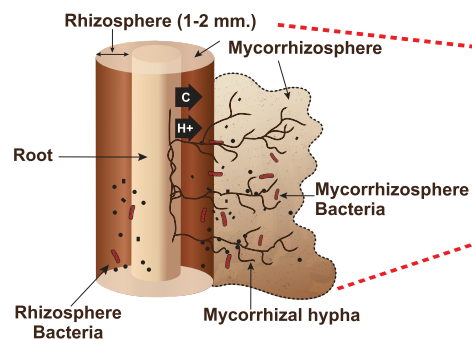
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# AGROWNICA +

## 3 in 1 Soil & Plant VITAMINS

### Introduction

The mycorrhizosphere/rhizosphere are composed of a microbial biomass that play an important symbiotic relationship with a plant's roots. These form a gelatinous mucilage that solubilizes nutrients, allowing these to diffuse with the mass flow of water toward the roots. **It is this "hydraulic continuity" that accounts for 98% of a plant's total nutrient acquisition.**



However, this symbiotic association is frequently disrupted in conventional intensive agriculture. Poor tillage, high inputs of inorganic fertilizers, herbicides and pesticides may alter microbial communities that result to reduced nutrient acquisition or even root disease. **Crops respond by diverting 18-25% of its net photosynthate to maintain the mycorrhizosphere/rhizosphere - Such response hinders crop growth or reduces crop yield.**

### What is AGROWNICA plus?

AGROWNICA plus is a unique blend of botanical extracts derived from various Chinese herbal plants that have been documented in ancient books for its applications in agriculture. It optimizes the ability of native microbes to colonize hosts in their natural habitat, and allows extensive development of mycorrhizae to maximize nutrient availability to the hosts.

#### Major ingredients include :

- *Scutellaria lateriflora* (Blue skullcap herb)
- *Euphorbiaceae* (Euphorbias)
- *Azadirachta indica* (Neem Tree)
- *Ailanthus altissima* (Tree of Heaven)
- *Cupressaceae* (Arborvitae or "tree of life")
- *Gleditsia sinensis* (Chinese honey locust)
- *Sophora* genus
- *Aloe* species

### How it works ?

#### 1 Crop Protection

##### Inhibition of Pathogenic Organisms

AGROWNICA plus contains organic acids, phenolic compounds, saponins, and natural antibiotic-like compounds that have proven antibacterial, antiviral, antiprotozoal and antifungal activities comparable to commercial chemical crop protection products.

##### Stimulation of Native Microbial Colony

Complex polysaccharides and organic acids serve as stimulant or prebiotic that help native beneficial microorganisms to dominantly colonize the mycorrhizosphere /rhizosphere and begin its symbiotic relationship with the plant.

#### 2 Root Growth

AGROWNICA plus contains plant growth regulators that influence root morphogenesis. These may also be elaborated by microorganisms in the rhizosphere secondary to modulation by AGROWNICA plus.

#### 3 Soil Conditioning

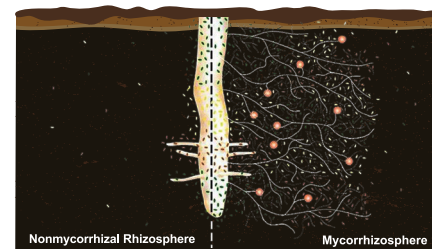
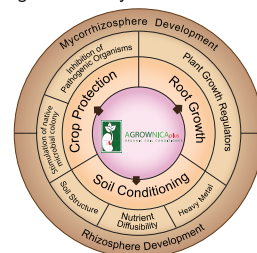
Phenolic compounds in AGROWNICA plus form polymer resins that stabilize soil granules against the action of water, greatly improving its tilth. Soil is more resistant to compacting, has better water infiltration/retention, improves seedling emergence.

##### Improves Nutrient Diffusibility

Organic acids and phenolic compounds in AGROWNICA plus solubilize minerals, improving its diffusibility into the mass flow of water through soil. Saponins act as a penetration enhancer through soil aggregates and caked soil.

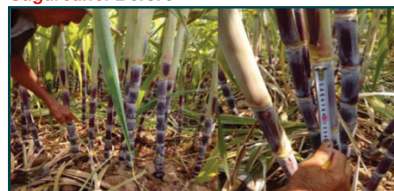
##### Prevents Heavy Metal Toxicities

Phenolic compounds and alkaloids form complexes with heavy metals such as aluminium, cadmium, chromium and lead, affecting the mobility and fate of these ions in contaminated soils.



Numerous field applications validate the efficacy of AGROWNICA plus in Crop Productivity

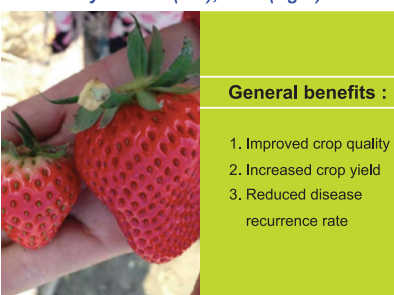
#### Sugarcane: Before



#### Corn: before (left), after (right)



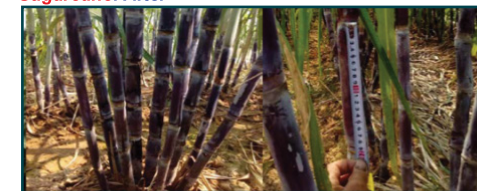
#### Strawberry: before (left), after (right)



#### General benefits :

1. Improved crop quality
2. Increased crop yield
3. Reduced disease recurrence rate

#### Sugarcane: After



#### Tobacco: before (left), after (right)



#### Areas of application of AGROWNICA plus

1. Soil pretreatment
2. Seed / seedling pretreatment
3. Mid-grow mycorrhizosphere/rhizosphere optimization ? - rebalance the rhizosphere microflora, redistribution of minerals to the nutrient depleted areas, break soil encrustation around roots, check insect and nematode pest pressure.
4. Foliar treatment
5. As a "green" postharvest treatment to prevent spoilage of produce
6. Prevent Salmonella and E. coli contamination of vegetables and other produce.

#### Frequently Asked Questions

##### When will be the best time to use AGROWNICA plus ?

The best time is to apply AGROWNICA plus before seeding as a soil pretreatment. Even when the crops are already seeded and growing, AGROWNICA plus will continue optimizing the mycorrhizosphere/rhizosphere to improve crop quality and yield.

##### How frequently do we need to apply AGROWNICA plus ?

It depends on the type of crop. For most seasonal and ephemeral crops, we only apply once per cycle.

##### Could it save cost?

Yes. AGROWNICA plus potent pathogen control lowers the frequency of disease incidence, allowing you to significantly cut down on fungicide and nematocide costs.

#### Recommended usage

#### For the treatment of major field crops :

Stage	Treatment	Dilution	Coverage Area
Preparation of the crop area	After tilling the soil and just before seeding or planting, spray AGROWNICA plus solution over the crop area 1 to 2 times	80-100 ml / Knapsack Tank	1-Hectare
Before seeding	Soak seeds in AGROWNICA plus solution for 30 minutes before sowing or planting.		N/A
At 20 - 30 cm growth stage	Apply AGROWNICA plus solution through foliar spraying over the plant 1 to 2 times.		2-Hectares
At 40-60 cm growth stage	Apply AGROWNICA plus solution through foliar spraying over the plant 1 to 2 times.		2-Hectares