

EMPAKTOR PLANT- BASED ORGANIC LIQUID FERTILZERS



EXPERIENCE EXCELLENT QUALITY & SUPERIOR YIELD



PRODUCT OVERVIEW

These products are fertilizers containing 100% plant enzymes, microorganisms and amino acids produced by using physical methods in all production stages.

The fertilizers contain all the essential (and trace) elements needed for promoting robust plant growth, sustainable soil health, structure conservation and fertility improvement.

Harmful microorganisms cannot thrive and proliferate in areas where these organic fertilizers are used because they contain plant growth promoting rhizobacteria (PGPR). These fertilizers have been prepared to address persistent requests from our farmers to create innovative bio-technological solutions for general problems in the natural way.

PRODUCT OVERVIEW

GENERAL FARMERS' PROBLEMS SOLVED WITH THE PRODUCT

- Saline soils (high salt content)
- Deteriorating soil structure
- Declining inherent soil fertility
- Poor rooting and germination
- Low crop establishment rate
- Stunted vegetative growth
- Pests and diseases infestation
- Unstable soil pH (acidic soils)
- Poor flowering and fruit formation
- Low yield and poor crop quality
- Short shelf life (high perishability)

PRODUCT OVERVIEW

BENEFITS OF THE PRODUCT

- EARLIER GROWTH

In all product groups, growth can be seen between 10-20 days

- BETTER RATIOS

Sugar-protein-fat-dry matter ratio increased in harvested crops

- LESS POST-HARVEST LOSS

Fruit and vegetable shelf life extended by 5-10 days on average

- BIGGER HARVESTS

Up to 30% bigger fruit or 30% more flowers

- MORE ORGANICS

Increase organic matter percentages in soil

- STABILIZED PH

pH is stabilized permanently and the absorption of nutrients is ensured

- MORE ADVANCED ROOT STRUCTURE

Nutrition collection area expanded
Senescence and other vein problems eliminated

- FEWER PESTS

Acari cannot reproduce; mites cannot feed

- REDUCED DISEASE

Strengthened plant structure and soil structure can eliminate serious diseases, pH problems and salinity issues

- MORE TRACE ELEMENTS

Contains Fe, Ca, Mg, Mn, Cu, Mo, B and S

- LESS POISON RESIDUE

Fungicide and insecticide residues degraded to nothing in 7-14 days

- SOIL CONDITION IMPROVED

Water permeability increased
Clod problems eliminated
Soil cracks rarely seen

AMINO ACIDS

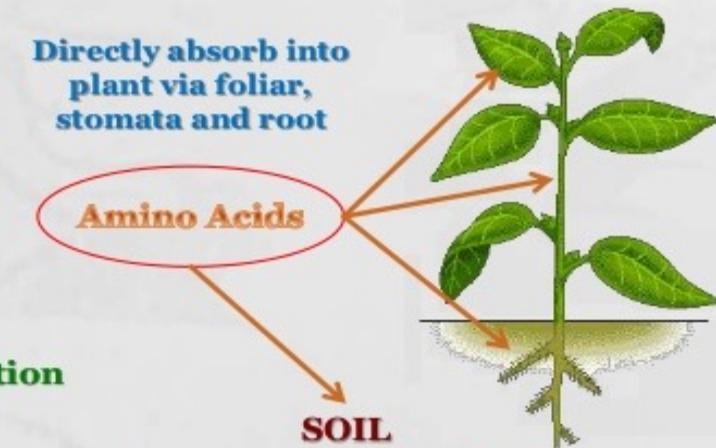
EFFECTS OF AMINO ACIDS ON SOIL HEALTH, PHOTOSYNTHESIS & PLANT GROWTH

Plant can biosynthesize all the amino acids they need with other nutrient, but it consume energy with very complex procedure. Applying amino acids can help plant to focus on growing and yielding.

Amino acids effect on PLANT

- Protein Biosynthesis
- Resistance to abiotic stress
- Photosynthesis
- Stomata Activity
- Chelation
- Phytohormones
- Pollination and Fruit formation

Directly absorb into plant via foliar, stomata and root



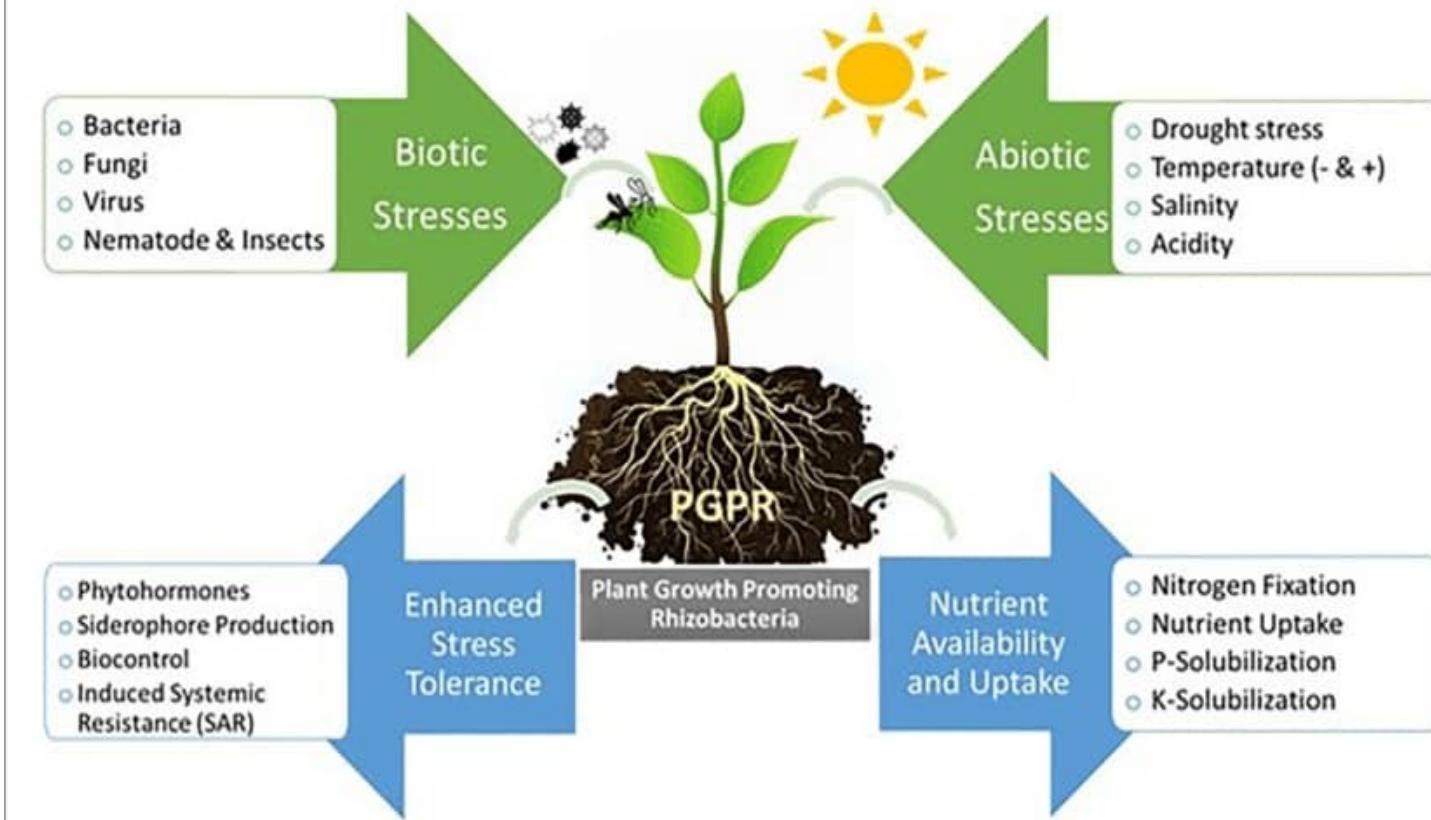
Amino acids effect on SOIL

- Increase microbial activity
- Microbial balance in the soil

Increase microbial activity.
Consequently, soil amending effect.

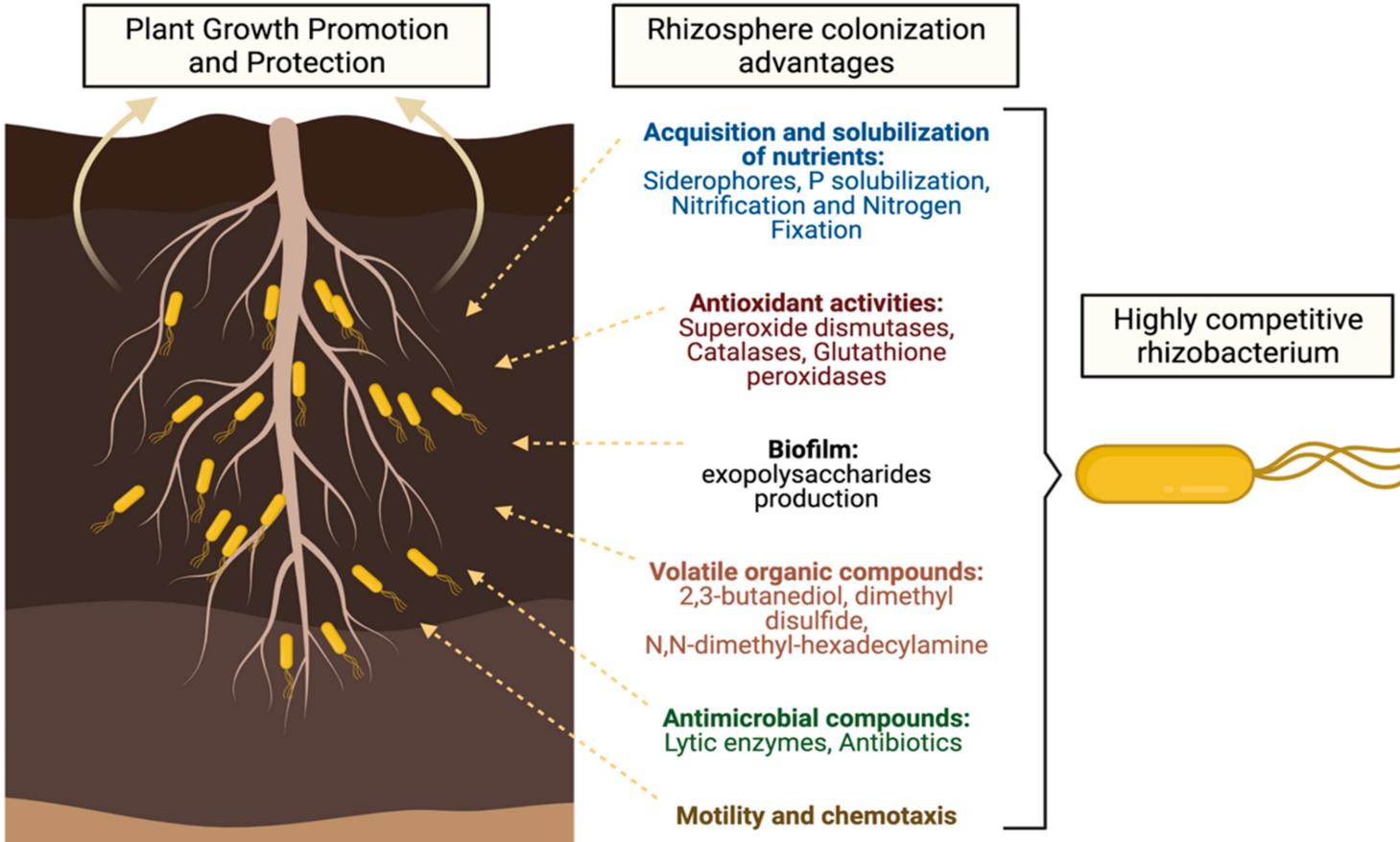
BACTERIA

EFFECTS OF PLANT GROWTH PROMOTING RHIZOBACTERIA (PGPR) ON PLANTS



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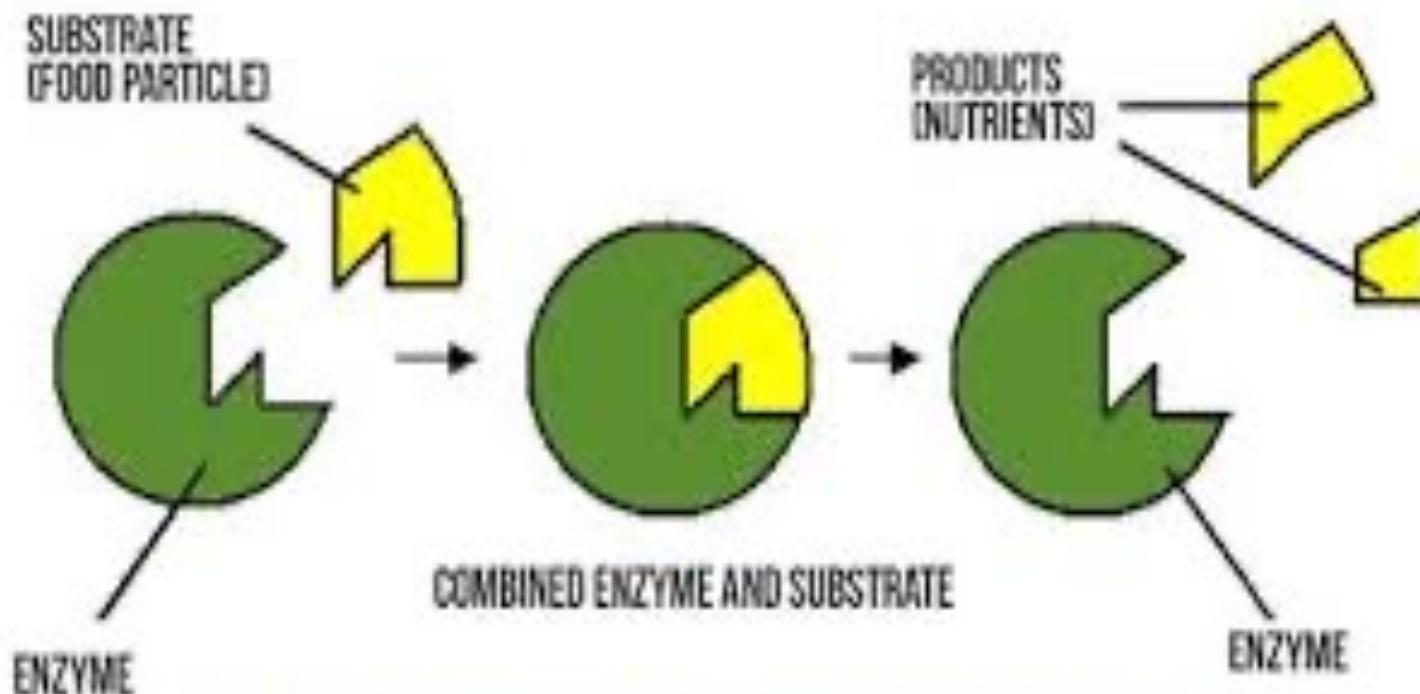
EFFECTS OF PGPR ON SOIL HEALTH & ROOT MASS PROLIFERATION

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PRODUCT BENEFITS

HOW ENZYMES BREAK DOWN FOOD INTO NUTRIENTS



HOW ENZYMES BREAK DOWN FOOD INTO NUTRIENTS

PRODUCT BENEFITS

KEY PRODUCT FIELD RESULTS ON MANGO



Prolific blossoming



Superior Fruit Bud Initiation



Excellent Quality & High Yield



BBS



Anthracnose



Post-PRODUCT treatment M & E



Healthy & Export Packaging Quality Fruits



PRODUCT BENEFITS

KEY PRODUCT FIELD RESULTS ON PINEAPPLE



High Establishment

Good Drought Tolerance

Healthy Green Foliage

Uniform Fruit Bulking Size



Healthy & Vigorous Flower Initiation after Forcing



Uniform Flowering after Forcing High Internal Fruit Quality Export Packaging Quality Farmers Happy with Quality & Yield

PRODUCT BENEFITS

KEY PRODUCT FIELD RESULTS ON COCONUT (BEFORE THE USE OF THE FERTILIZER)



Pale Green Leaves with Yellow Tips

Dry Nuts with Flaccid Roots

Necrotic Leaves

PRODUCT BENEFITS

KEY PRODUCT FIELD RESULTS ON CONDITIONING OF COCONUT SEEDLINGS (AFTER USING THE PRODUCT)



Well Conditioned Seedlings with Green Foliage & New Root Emergence

Healthy & Robust Seedlings with Green Foliage Ready for Transplanting

PRODUCT BENEFITS

KEY PRODUCT FIELD RESULTS ON SWEET POTATO (SP)



Purple Flesh SP: Superior Yield, High Quality Wholesome Tubers



Orange Flesh SP: Superior Bulking & High Yield Per Stand

High Yield Per Stand

Wholesome Skin & Export-Style Quality

PRODUCT BENEFITS

KEY PRODUCT FIELD RESULTS ON CABBAGE



OUR PRODUCT



CONTROL

PRODUCT

Superior and More Vigorous Foliar Growth and Better Crop Health Status of OUR PRODUCT-Treated Cabbage

PRODUCT BENEFITS

KEY PRODUCT FIELD RESULTS ON ONION



Very High Germination & Establishment

Vigorous Early Vegetative Growth Pattern



Good Drought Tolerance and Vigorous Bulking of Onion Bulbs on Marginal Gravelly Sandy Loam Soil

PRODUCT BENEFITS

KEY PRODUCT FIELD RESULTS ON EGGPLANT



Very High Establishment & Early Rooting



Prolific Fruit Formation & Bulking; Healthy Fruit Status; High Yield & Export-Style Quality



Monitoring of Post-PRODUCT Fruit Bud Initiation



PRODUCT BENEFITS

KEY PRODUCT FIELD RESULTS ON SQUASH



PRODUCT'S (Very High Establishment)



Prolific Flowering & Fruit Initiation



Very High Yield



CONTROL (Choanephora Fruit Rot)



PRODUCT'S (Disease Resistance Observed)



PRODUCT'S (Wholesome Export-Style Quality)

PRODUCT BENEFITS

KEY PRODUCT FIELD RESULTS ON GINGER



Robust Stem Growth



Uniform Establishment & Vigorous Growth Pattern



Early Rhizome Formation at 8WAP



Post-PRODUCT Monitoring of Rhizomes

Early Bulking of Healthy Rhizomes at 14WAP

PRODUCT BENEFITS

KEY FIELD RESULTS ON MAIZE



Uniform Crop with Very High Establishment

Vigorous Formation of Healthy Cobs



Post-Product Monitoring of Cobs

Superior Grain Filling & Grain Yield

Vigorous Formation & Bulking of Healthy Cobs

PRODUCT BENEFITS

KEY FIELD RESULTS ON RICE



Very High Germination

High Establishment & Uniformity

Vigorous and Robust Tillering

Healthy Pre-flowering Status



Superior Grain Filling of Paddy Rice

Uniform Grain Drying

Harvesting of High Yield & Top Quality Grains

PRODUCT BENEFITS

KEY FIELD RESULTS ON COWPEA



Uniform Crop with Very High Establishment



Formation of Vigorous and Healthy Canopy



Post-Product Monitoring of Pod Filling



Uniform and Vigorous Pod Formation and Grain Filling of Healthy Cowpea



High Yield & Top Quality Cowpea Harvest

PRODUCT BENEFITS

KEY FIELD RESULTS ON GROUNDNUT



Uniform Crop with Very High Establishment

Sustained Vegetative Growth Phase

Flowering of Healthy Groundnut at 5 Weeks



Prolific Pod Formation and Pod Filling of Healthy Groundnut

High Yield and Excellent Grain Quality

