

BACTERIA

Addition of rhizosphere bacteria to organic fertilizers

Bacillus licheniformis | *Bacillus megaterium* | *Bacillus polymyxa*
Bacillus subtilis | *Bacillus thuringiensis* | *Paenibacillus azotofixans*

- Bacteria contribute to the development of a healthy soil which is a must for strong and healthy plants
- With a dosage of 2 tons of enriched organic fertilizer per ha or 20 kg per 100 m² the optimal quantity of bacteria is supplied
- The fertilizer needs to be incorporated well
- The effect of bacteria is most obvious with soil or plants suffering from environmental stress

BENEFITS

- Stimulation of a healthy soil which is a must for strong and healthy plants
- Stimulation of
 - decomposition of organic matter
 - solubilization phosphorus
 - fixation of atmospheric nitrogen
- Increase of plant vitality
- Improvement of stress resistance
- Improvement of nutrient and water absorption through encouraged root growth

MYCORRHIZA

Addition of Mycorrhiza to organic fertilizers

- Mycorrhiza fungi and plants create a symbiotic relationship which is advantageous to both the partners
- With a dosage of 2 tons of enriched organic fertilizer per ha or 20 kg per 100 m² the optimal quantity of mycorrhiza is supplied
- The fertilizer needs to be incorporated well and should not be mixed with fungicides
- The effect of mycorrhiza is most obvious with soil or plants suffering from environmental stress

BENEFITS

- Improvement of nutrient absorption because of:
 - enlargement of root surface
 - mobilization of phosphorus, iron and zinc
- Improvement of water absorption
- Strengthening of the plant
- Stimulation of the natural defence mechanism of the plant
- Increase in plant resistance to environmental stress
- Improvement of soil stability (prevention of soil erosion)

HUMIC ACIDS

Addition of humic acids (Leonardite) to organic fertilizers

- Humic acids are working both as soil conditioners and as growth stimulants
- With a dosage of 2 tons of enriched organic fertilizer per ha or 20 kg per 100 m² the optimal quantity of humic acids is supplied
- The fertilizer needs to be incorporated well
- The effects are best visible on poor and sandy soils and on recultivation areas

BENEFITS

SOIL CONDITIONER

chemical characteristics

- improvement of CEC (cation exchange capacity)
 - better retention of nutrients as potassium, magnesium and ammonium in the soil
 - reducing of salinization problems
- building of chelates (stable complexes) with micro nutrients which makes them available for the plants
- regulation of the pH value of the soil
- increase of soil fertility

biological characteristics

- stimulation of microbial activity in the soil

physical characteristics

- increase of water retaining capacity of the soil
- support of forming of colloids and thus prevention of soil erosion
- improvement of soil structure (stability of aggregation)

GROWTH STIMULANT

- stimulation of plant enzymes
- improvement of root development
- increase of nutrient absorption and more effective nutrient use



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