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Innovation for a Greener Earth

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SOLUPHOS[®] SP

Microbial Inoculant

SoluPhos SP is a powder form phosphate solubilizing microbial inoculant containing microbial food and the highly efficient phosphate solubilizing bacteria, *Bacillus licheniformis* and *Pseudomonas putida*. While phosphorus is a major nutrient for plant growth and root formation, most of the phosphorus in soil is in an insoluble form. *B. licheniformis* and *P. putida* in **SoluPhos SP** tackle this issue by growing and secreting organic acid in soil and dissolving the fixed phosphate into a plant utilizable form. Thus, plants can utilize the residual phosphate in soil and they can optimize external application of fertilizers.

Continuous Phosphorus

Phosphate solubilizing bacteria activate soil making it a living body. This living process continuously solubilizes phosphorus in the soil allowing plant roots to be surrounded by available phosphorus. This will eliminate the stress on plants caused by too much or insufficient phosphorus and result in better growth and yield.

Advantages of Using SoluPhos SP

- Increase phosphorus availability in soil
- Reduce phosphate fertilizer consumption by 30 – 50%
- Secrete growth-promoting substances to enhance the growth of plants
- Increase crop yield
- Provide protection against drought and some soil-borne diseases
- Improve nutritional value of crops
- Increase the number of flowers
- Sustainable, non-hazardous and green product



Fig 1. The effect of SoluPhos SP on the production of different vegetables

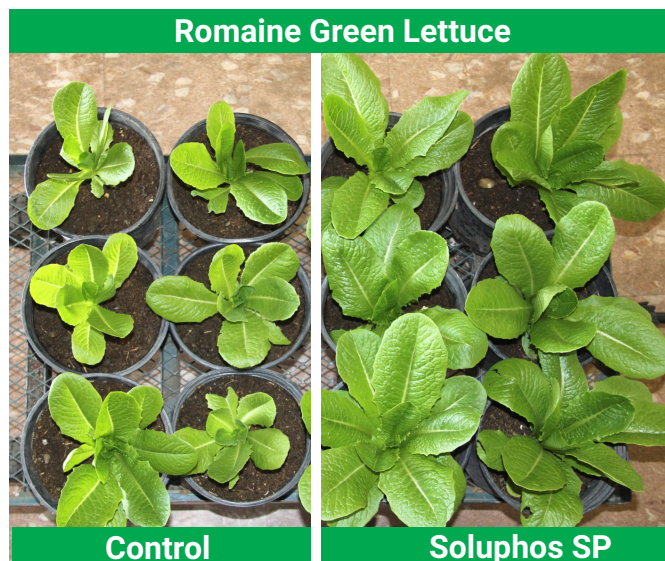


Fig 2. The growth promotion effect of SoluPhos SP on romaine green lettuce

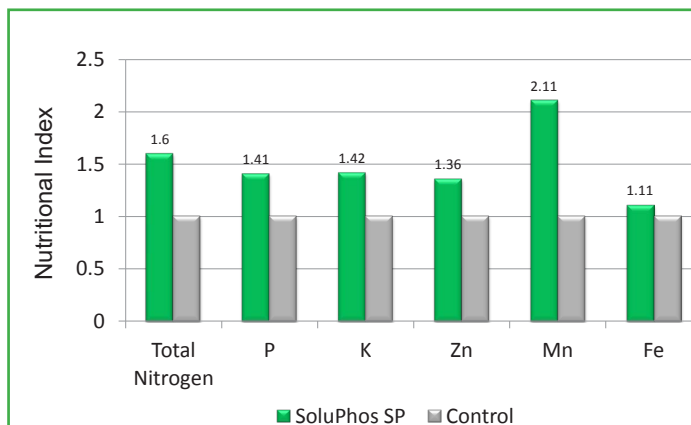


Fig 3. The nutrients increased in lettuce tissue after SoluPhos SP treatment

For labels and SDS, visit our website at jhbiotech.com or call us at 805.650.8933

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