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MOS Phito

MOS PHITO is a combination of organic acids and microbes, which include bacillus laterosporus and bacillus subtillus. Primer is a soil improver that is formulated for use on soils where certain soil-borne pathogens occur and to restore biological balances in the soil.

MOS PHITO also helps the plant to secrete PHYTO ALLEXION which is the plant's natural mechanism as protection against various fungi and bacteria.

Several trials have been conducted in laboratories to test the suppressive effect on various pathogens with microbes as well as with the organic acids. There is a synergistic effect with the combination. The microbial activity in the soil is promoted because nutrition is applied to the soil microbes and microbes are also placed back into the soil. Due to natural balances that are restored in the soil and the fact that the plants grow healthier, there is natural resistance to infection from various pathogens.

Laboratory tests with components of **MOS Phito** for disease suppression on VEGETABLES:

- Erwinia carotovora: Suppressed by microbes in MOS as well as by the other components of **MOS Phito**, as tested by ARC at Roodeplaat.
- Streptomyces scabies: Suppressed by components of **MOS Phito**.
- Phytophthora infestants (Late blight): Suppressed by components of **MOS Phito**.
- Ralstonia solanacearum (Bacterial wilt): Also killed/suppressed by the main component

PERMANENT CROPS:

- Phytophthora nicotinae: Excellent control was obtained with laboratory tests which was also confirmed with several field trials. Within one season there was dramatic recovery of the infected citrus trees.
- Pythium: Good suppression by both the MOS organisms as well as the main component.

GROUND APPLICATIONS:

Permanent crops: 25 l/ha, sprayed on the soil under the drip area. Irrigate after application. **MOS Phtio** can also be applied via the irrigation system. Apply in the Spring or after harvest. Apply **MOS Phito** again in October at 10 l/ha. **MOS Phito** stimulates root development – It is therefore ideally suited to be applied to crops that need to build up reserves after harvest. Apply just after harvest at 25 l/ha. Root development is stimulated which will then help the plants to build up reserves before they go into a dormant phase. **MOS Phito** can be applied up to and including December. It can be applied one week before the planned root thrust.

Potatoes and vegetables: 30 l/ha, which can be followed up if necessary at 15 l/ha. The first application with plant which can be applied in the plant feed, sprayed on top of the soil and then washed in, or applied with the irrigation water. The second application is just before tuber initiation which is applied with the irrigation water.

GARDEN USE
Mix 200 ml **Mos Phito** with 10 l water and moisten the soil well. Repeat monthly for healthy plants.

For any enquiries, contact our office.
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LABORATORY TESTS DONE WITH THE MAIN ORGANISM IN MOS PHITO

Laboratory Tests

By the University of California, Riverside, USA
And the University of California, Davis, USA

Results Producing

"significant inhibition" and "extremely significant inhibition" to the following pathogens:

Bacteria
Clavibacter michiganense
Erwinia carotovora
Erwinia chrysanthemi
Pseudomonas solancerarum
Pseudomonas syringae
Xanthomonas campestris

Fungi
Aspergillus
Bipolairs sp.
Cephalosporium sp.
Chaetomium sp.
Colletotrichum sp.
Fusarium oxysporum
Phythophthora cinnamomi
Phythophthora citricola
Phythophthora citrophtora
Phythophthora parasitica
Phythophthora cactorum
Pythium aphanidermatum
Pythium altimum
Rhizoctonia solani
Sclerotium folfsii
Verticillium albo-atrum
Verticillium dahliae
Verticillium sp.