

APPLICATION RESULTS ~ EGGPLANT OPERATION

INTRODUCTION:

Eggplant (*Solanum melongena*), or aubergine, is a species of nightshade, grown for its edible fruit, widely used in cooking. Egg-plant is the common name in North America, Australia and New Zealand, but British English uses the French word aubergine.

As a member of the genus *Solanum*, it is related to the tomato and the potato. It was originally domesticated from the wild nightshade species. The eggplant is a delicate, tropical perennial often cultivated as a tender or half-hardy annual in temperate climates. The stem is often spiny. The flower is white to purple, with a five-lobed corolla and yellow stamens. The egg-shaped, glossy, purple fruit has white flesh with a meaty texture. It grows 40 to 150 cm. tall, with large, coarsely lobed leaves that are 10 to 20 cm. long and 5 to 10 cm. wide. The fruit can be 30 cm. or more in length.

Botanically classified as a berry, the fruit contains numerous small, soft seeds that, though edible, taste bitter because they contain nicotinoid alkaloids (related to tobacco). One of the most serious challenges for Eggplant plantations is the contagion and proliferation of nematodes (parasites) and fungi in the soil.



OBJECTIVE:

The operator agreed to use Puroxi (OB) and companion products in a field trial to see if objectives could be met. The main priority of this evaluation was to minimize and control the disease-causing bacteria, fungi, and parasites that cause the deterioration and decay of the plants.

Disinfecting and improving the soil conditions resulting from the previous harvest with increased oxygenation, would achieve the objective, using eco-friendly, organic products, instead of harmful toxic chemicals.

APPLICATION METHOD:



To avoid contagion and prevent the proliferation of nematodes and fungi on the ground, it was decided not to remove the soil with plow and / or harrow equipment. Disinfection of roots of the plants with Puroxi (OB) was carried out prior to planting in the field. A corresponding disinfection treatment was also done in the planting holes.

This was followed by a disinfection of the plant roots 8 days after sowing, by irrigation drenching, to help lower the incidence of the fungus Mildiu (*Phytophthora nicotianae*), and others. Additional foliar applications were applied to ensure a greater percentage of healthy fruits for harvesting.

Weekly foliar application of Puroxi (OB) and drip irrigation continued to provide efficient disinfection by supplying increased oxygen supply to the roots. A finishing treatment was performed post-harvest in the wash water tanks, providing final cleaning and disinfection, before being packaged for export.

RESULTS and RECOMMENDATIONS:

Puroxi OB applied in the field immediately started to improve all soil conditions. The application protocol, using irrigation drip and foliar spray methods, was successful in disinfecting the soil, roots, and leaves, resulting in effective control of Root-knot Nematodes (*Meloidogyne*), throughout the growth process. The application of Puroxi OB in drip irrigation should be started 15 minutes after starting and performed weekly for two hours, to ensure effective infiltration to the root zone.

PUROXI (OB)

PURE WATER GLOBAL INC.

“THE BEST WATER SOLUTION”

for EGGPLANT

Using Puroxi (OB) throughout the management cycle, from seedling to harvest, resulted in significant reduction in the incidence of fungi and nematodes and increased fruit yield. Weekly foliar spray applications are recommended at lower concentrations.

TESTIMONY:

Mr. Iván Tovar, agronomist, said: “There was an effect of more foliage present in each of the plants, which means that there was greater production of flowers and consequently a greater number of fruits”. He confirmed that after two months, there was less presence of nematodes, as confirmed by an independent laboratory analysis. “They considered Puroxi OB as a nematicide, in addition to providing nutrients to the plants. As a result, we were successful in getting Puroxi OB certified as a qualified product to use during the entire process.”

Our products, formulations, and application methods have shown proven success with disease resistance and pest prevention, and healthier, more robust plants. This is a bacterial issue and bacteria do not like oxygen. Due to increased oxygen levels and nutrient uptake derived from our product, any fungal or bacterial issues can be prevented or eliminated. We believe that you can counteract the cost of our product by eventually cutting back on fertilizers and pesticides.

DISCLAIMER:

The observations listed above are from specific situations, based on their own unique results and experiences. All water is different; every environment is different; every operator is different; every soil is different. And of course, each challenge of diseases or contaminants is different. We cannot guarantee you will see any specific result listed above. But what we can guarantee is that you will immediately have clean, clear, nutritional water, and in a very short time, better results than without our applications. When your plants and soil have healthy, nutritional water it's a good start. Raising the oxygen levels will further contribute to your overall production success. Application rates and methods vary from operation to operation.



PROFILE

Farm name: Confidential
Location: Retalhuleu
Trial period: 60 days
Type of farm: Eggplant
Type of trees: Solanum Melongena
Climate: Humid tropical
Application: Field-Post harvest

If this makes sense to you, please give us a call; we would love to have you as a customer.

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Caution: Do not add fertilizers in the water at the same time as you add Puroxi (OB), without doing a Jar Test. Some fertilizers may plug emitters when mixed with Oxygen. Always consult your local Distributor or us, prior to application to ensure it is done correctly.